

ADMINISTRATIVE RECORD

SMS INSTRUMENTS SITE - REMOVAL ACTION

DEER PARK, SUFFOLK COUNTY, NEW YORK

Prepared for:

Eric J. Wilson, On-Scene Coordinator
U. S. EPA Region II
Removal Action Branch
Edison, New Jersey 08837

Prepared by:

Region II Superfund Technical Assessment and Response Team
Roy F. Weston, Inc
Federal Programs Division
Edison, New Jersey 08837

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PCS # : 1034

December 1995

SDMS Document



110173

Administrative Records in Local Repositories

The "Administrative Record" is the collection of documents which form the basis for the selection of a response action at a Superfund site. Under Section 113(k) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), the EPA is required to establish an Administrative Record available at or near the site.

The Administrative Record file must be reasonably available for public review during normal business hours. The record file should be treated as a non-circulating reference document. This will allow the public greater access to the volumes and also minimize the risk of loss or damage. Individuals may photocopy any documents contained in the record file, according to the photocopying procedures at the local repository.

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The Administrative Record file will be maintained at the local repository until further notice. Questions regarding the maintenance of the record file should be directed to the EPA Regional Office.

The Agency welcomes comments at any time on documents contained in the Administrative Record file. Please send any such comments to Eric J. Wilson, Removal Action Branch, U.S. EPA Region II, Woodbridge Avenue, Edison, NJ 08837.

For further information on the Administrative Record file, contact Eric J. Wilson, On-Scene Coordinator, U.S. EPA Region II, at (908)906-6991.

SMS INSTRUMENTS SITE
ADMINISTRATIVE RECORD FILE
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ADMINISTRATIVE RECORD FILE
INDEX OF DOCUMENTS

The index of documents contains the following information about each document:

Document #: Site Code-Section First Page-Section Last Page
Title: Abstract of Document Contents
Category: Document Category/Section of Administrative Record File
Author: Writer and Affiliation
Recipient: Addressee or Public and Affiliation, if applicable
Date: When Document was Created or Transmitted

Note: Items in the Administrative Record are for public access, and should be removed from the file only for copying. The cost of reproduction of the documents in the file is the responsibility of the person requesting the copy.

**SMS INSTRUMENTS SITE
ADMINISTRATIVE RECORD FILE
LIST OF DOCUMENTS**

Document #: SMS - 1.1001 - 1.1001
Title: Referral Letter for Drum Removal at SMS Instruments
Category: Site Identification
Author: William J. McCabe, Deputy Director for New York/Caribbean Programs,
Emergency and Remedial Response Division,
U.S. Environmental Protection Agency
Recipient: Richard Salkie, Associate Director for Removal and Emergency Preparedness
Programs, Emergency and Remedial Response Division
U.S. Environmental Protection Agency
Date: September 8, 1995

Document #: SMS - 2.1001 - 2.1017
Title: Request for a Removal Action at the SMS Instruments Site
Category: Removal Response
Author: Eric J. Wilson, On-Scene Coordinator
Removal Action Branch, U.S. Environmental Protection Agency
Recipient: Kathleen C. Callahan, Director
Emergency and Remedial Response Division,
U.S. Environmental Protection Agency
Date: September 28, 1995

Document #: SMS - 2.2001 - 2.2230
Title: Drum Sampling Data
Category: Removal Response
Author: Friend Laboratory Inc.
Recipient: Dr. Sam Sain
Advanced Environmental Consultants
Date: July 5, 1995

Document #: SMS - 2.2231 - 2.2233
Title: Drum Sampling Data Analyses
Category: Removal Response
Author: Friend Laboratory Inc.
Recipient: Dr. Sam Sain
Advanced Environmental Consultants
Date: July 28, 1995

Document #: SMS - 2.2234 - 2.2245
Title: Results of Analysis Method 310.13
Category: Removal Response
Author: Stan Criss
Friend Laboratory Inc.
Recipient: Paul Bosetti
Advanced Environmental Consultants
Date: August 11, 1995

Document #: SMS - 3.1001 - 3.1002
Title: Superfund Update - SMS Instrument Site
Category: Public Participation
Author: Steven Katz
External Programs Division,
U.S. Environmental Protection Agency
Recipient: General Public
Date: October, 1995

Document #: SMS - 3.2001 - 3.2001
Title: Notice of Public Availability
Category: Public Participation
Author: N/A
Recipient: General Public
Date: December, 1995

Document #: SMS - 4.1001 - 4.1002
Title: EPA Regional Guidance Documents
Category: Technical Source and Guidance Documents
Author: U.S. Environmental Protection Agency
Recipient: General Public
Date: December, 1995

Document #: * Operable Unit I - SMS-001-0518 to 0519
Title: Special Notice Letter stating that EPA requires responsible parties to take response action at the site
Category: Enforcement
Author: Stephen D. Luftig, U.S. Environmental Protection Agency
Recipient: Sol M. Schusheim, SMS Instruments, Inc.
Date: June 8, 1987

Document #: * Operable Unit I - SMS-001-0944 to 1042
Title: Record of Decision - SMS Instruments Site
Category: Record of Decision
Author: William J. Muszynski, U.S. Environmental Protection Agency
Recipient: General Public
Date: September 29, 1989

Document #: ** Operable Unit II - 500001 - 500047
Title: Record of Decision - SMS Instruments, Inc.
Category: Record of Decision
Author: U.S. Environmental Protection Agency
Recipient: General Public
Date: September 27, 1993

- * See Administrative Record - SMS Instruments Site, Operable Unit I - Located in the Deer Park Library
- ** See Administrative Record - SMS Instruments Site, Operable Unit II - Located in the Deer Park Library

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

RECEIVED

SEP 12 11 03 AM '95

DATE: SEP 08 1995

SUBJECT: Drum Removal at the SMS Instruments Superfund Site
Suffolk County, New York

FROM: William J. McCabe, Deputy Director
for New York/Caribbean Programs
Emergency & Remedial Response Division

John E. LaPadula

TO: Richard Salkie, Associate Director
for Removal & Emergency Preparedness Programs
Emergency and Remedial Response Division

I am writing to request your assistance in removing 48 drums of organic liquid from the SMS Instruments site. The SMS Superfund site is located at 120 Marcus Boulevard, Deer Park, in Suffolk County New York.

Operations at the site, including discharges of untreated wastewater from degreasing and painting operations, resulted in significant volatile organic compound contamination of site soils and groundwater. As a result, the SMS site was placed on the National Priority List (NPL) in June 1986.

A Record of Decision (ROD) for the site was signed in September 1989. The ROD called for the soil remediation by in situ steam or air stripping (SVE) of the contaminated soil followed by groundwater extraction, treatment and reinjection. The soil treatment was completed in November 1993. The construction of the groundwater treatment system was completed in June 1994. Operation of the system is expected to continue for several years before remediation goals are achieved.

The SMS facility ceased operations in late 1989. 48 drums were left behind in an old shed located on the site. Analyses of the contents of the drums indicate that they consist mostly of solvents and industrial oils. The drums are deteriorating and need to be overpacked and sent off-site for treatment/disposal.

We are **requesting** your assistance in removing these drums to avoid any **potential** releases of contaminants into the soils and groundwater. Please call me or have your staff call Abram Miko Fayon, the RPM of the site at (212) 637-4250, if you have any questions regarding this request.

Thank you for your assistance in this matter.

cc: J. Rotola

ATTACHMENT B



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION II
 EDISON, NEW JERSEY 08837

ACTION MEMORANDUM

DATE: SEP 28 1995

SUBJECT: Request for a Removal Action at the SMS Instruments Site, Deer Park, Suffolk County, New York

FROM: Eric J. Wilson, On-Scene Coordinator
 Removal Action Branch

TO: Kathleen C. Callahan, Director
 Emergency and Remedial Response Division

THRU: Richard C. Salkie, Associate Director
 Removal and Emergency Preparedness Program

Site ID #: R5

I. PURPOSE

The purpose of this Action Memorandum is to request and document approval of the proposed removal action described herein for the SMS Instruments Site (Site), located at 120 Marcus Boulevard in Deer Park, Suffolk County, New York, 11729. The proposed project ceiling is \$245,000, of which \$175,000 is for mitigating contracting.

The Site is on the National Priorities List (NPL). There are no nationally significant or precedent-setting issues associated with the proposed response.

II. SITE CONDITIONS AND BACKGROUND

The Comprehensive Environmental Response, Compensation, and Liability Information System ID Number for this time-critical removal action is NYD001533165.

A. Site Description

1. Removal site evaluation

On September 12, 1995, the U.S. Environmental Protection Agency (EPA) Associate Director for Removal and Emergency Preparedness Programs received a request from the Deputy Director for New York and Caribbean Programs to undertake a Comprehensive Environmental

Response, Compensation, and Liability Act (CERCLA) response action to remove 48 deteriorated drums containing solvents and industrial oils from the Site. The referral letter is included as Attachment A.

On September 20, 1995 the Removal Action Branch (RAB) conducted a Removal Site Investigation. This investigation confirmed the presence of deteriorated drums stored in and around the shed located at the northeast corner of the Site. In addition, numerous five gallon pails, as well as other smaller containers, were found to be stored in a shed.

2. Physical location

The Site is located in a light industrial and residential area of Deer Park, New York, and consists of a 34,000 square-foot building and a detached drum storage shed on a 1.5-acre lot. About 90% of the lot is paved with asphalt.

More than 50 industrial facilities are located within a one-mile radius and a large groundwater recharge basin is located directly adjacent to the Site on the east side. The Site is located in the recharge zone of the Magothy aquifer, a sole-source aquifer serving the surrounding residential population of approximately 124,000 people.

3. Site characteristics

The Site was operated from 1967 to 1990 by SMS Instruments. The current owner of the property is 120 Realty Corp. The Site is currently occupied by Fernanda Manufacturing, Inc. Fernanda Manufacturing employs 26 people at this facility and produces consumer wood products.

SMS Instruments overhauled military aircraft components. The overhauling operations consisted of cleaning, degreasing, machining, painting, refurbishing and testing of the components. These activities involved the purchase, storage and use of chemical products and the generation of hazardous wastes.

Operations at the Site, including the discharge of untreated wastewater from degreasing and painting operations, resulted in significant contamination of site soils and groundwater with volatile organic compounds. Soil remediation, conducted as part of the ongoing remedial action, was completed in November 1993. The construction of the groundwater treatment system was completed in June 1994. Groundwater remediation is ongoing.

Forty-eight drums and other assorted small containers remain in a shed located on the Site. Analysis of samples collected from the drums indicate that they contain primarily solvents and industrial oils. These containers are in a physically deteriorated condition.

This activities proposed in this Action Memorandum would be the first removal action at the Site. Remedial actions are described in Section II.B of this document.

4. Release or threatened release into the environment of a hazardous substance, or pollutant, or contaminant

A site investigation conducted by the RAB on September 20, 1995 revealed the presence of 48 drums (20 to 55 gallons capacity), 31 5-gallon pails and approximately 100 small containers (less one gallon capacity) stored within and in the vicinity of a shed. These containers are severely weathered, rusted and haphazardly stored.

The shed is of wood frame construction, with the roof and sides being constructed of corrugated fiberglass sheeting. The floor of the shed is a poured concrete slab surrounded by a four inch concrete curb. Holes in the roof and walls allow rain water to enter the building and accumulate on the floor. At the time of the inspection, standing water was noted on the floor in contact with the steel containers. An oily substance was also noted on the floor. The floor of the shed slopes to the northeast. Outside the northeast corner of the shed oil stained soils were observed, indicating that materials spilled on the floor have been released into the environment.

On June 26 and 27, 1995, as part of the ongoing remedial action, CDM Federal Programs Corporation collected samples from the drums staged within and around the shed. Samples were combined to form 15 composite samples and were analyzed for Resource Conservation and Recovery Act (RCRA) characteristics. Seven samples were determined to exhibit the characteristic of ignitability, three samples were found to exhibit the characteristic of reactivity and six samples were found to exhibit the characteristic of toxicity. Of the 15 composite samples, twelve were determined to be RCRA characteristic hazardous wastes. The maximum concentration of contaminants found in this analysis are presented in Table 1. RCRA characteristic hazardous wastes are designated as CERCLA hazardous substances in 40 CFR 302.4(b).

TABLE 1
 MAXIMUM CONTAMINANT CONCENTRATION IN WASTE EXTRACT (mg/l)
 JUNE 26 & 27, 1995 - CDM FEDERAL CORPORATION

CONTAMINANT	CONCENTRATION IN ¹ WASTE EXTRACT	REGULATORY THRESHOLD
Cadmium	6.87	1.0
Chromium	5.23	5.0
Chlorobenzene	2,280	100.0
1,4,-Dichlorobenzene	68,900	7.5
Lead	5.25	5.0
Methyl ethyl ketone	389	200

5. NPL status

The Site was proposed for the NPL in October 1984 by the New York State Department of Environmental Conservation (NYSDEC). In June 1986, EPA included the Site on the NPL.

6. Maps, pictures, and other graphics representations

Figures 1 and 2 included as Attachment B provide the location and configuration of the Site.

B. Other Actions to Date

1. Previous actions

EPA performed a Remedial Investigation and Feasibility Study (RI/FS) at the Site from May 1987 to February 1989. The RI identified organic and inorganic contamination in the soils and groundwater. Contamination was also detected in upgradient wells indicating that SMS may not be the only source of groundwater contamination.

The final RI/FS and Proposed Remedial Action Plan were released to the public in July 1989. A Record of Decision (ROD) specifying two operable units was signed in September 1989. The remedial action mandated in the ROD for Operable Unit I (OUI) included: in-situ stripping of contaminated soil; and extraction, treatment and reinjection of contaminated

¹If one or more contaminants in the waste extract exceed TCLP regulatory thresholds, that waste exhibits the characteristic of toxicity.

groundwater. The ROD also mandated that a second operable unit (OUII) be designated and a RI/FS be performed to identify off-site, upgradient sources of contamination.

The RI/FS for OUII was initiated in April 1990 and included an investigation of a 120-acre study area upgradient of the Site, which may have contributed to the groundwater contamination. No other source of contamination was identified that could have contributed to groundwater contamination at the Site. A "No Action" ROD was signed for OUII in September 1993.

The remedial design and action for OUI was performed in two phases; the first phase addressed the soil cleanup and the second phase addressed the groundwater cleanup.

A soil vapor extraction (SVE) system was selected for remediation of the contaminated soil. Construction of the SVE system was initiated in December 1991. After installation of the SVE system was completed in April 1992, the system operated from May 1992 to November 1993. A final inspection of the system performed by EPA and CDM Federal in March 1994 showed that the system was successful in achieving the site clean-up levels specified in the ROD. The cost of the SVE system construction, operation and maintenance was estimated during preparation of the Remedial Design documents at approximately \$710,000. The final cost including closeout activities was \$650,000.

Construction of the groundwater treatment system was initiated in November 1993. The system, which consists of two extraction wells, an air stripping unit, a vapor phase carbon adsorption system, ancillary chemical feed systems, piping, a control building and two reinjection wells, was completed and began operation in June 1994. Construction activities were consistent with the Remedial Design and conform with the remedy selected in the ROD. The cost for construction of the groundwater treatment system was \$1,147,000. Operation and maintenance costs for the first year were \$553,000.

2. Current actions

Operation and maintenance of the groundwater treatment system by the Remedial Program continues.

C. State and Local Authorities' Role

1. State and local actions to date

The Site was proposed for the NPL by NYSDEC in October 1984. State and local authorities have had no involvement in assessing the threat associated with containers stored in and around the shed.

2. Potential for continued State/local response

Currently there are no actions being taken by State or local government entities to remove the drums.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

The following factors described in 40 CFR Part 300.415(b)(2) of the National Contingency Plan (NCP) support conducting a removal action at the Site:

- (i) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;
- (ii) Actual or potential contamination of drinking water supplies or sensitive ecosystems;
- (iii) Hazardous substances, or pollutants, or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release;
- (iv) Weather conditions that may cause hazardous substance pollutants or contaminants to migrate or be released;
- (v) Threat of fire or explosion; and
- (vi) The availability of other appropriate federal or state response mechanisms to respond to the release.

A. Threats to Public Health or Welfare

Hazardous substances stored in deteriorated containers at the Site pose a threat to public health. The majority of the containers are deteriorated from age and exposure to the elements. A release of hazardous substances from these containers could result in the exposure of neighboring population to hazardous substances through direct contact, fire or explosion.

Seven of fifteen composite samples collected from the drums were determined to be ignitable. If these materials leaked and were exposed to a source of ignition, a fire and possibly an explosion could occur. The Site is located in a densely populated, light industrial and residential area. People working and/or living near the Site could be exposed to hazardous substances released into the atmosphere by fire and/or explosion.

No other entity, government or private, is able to take a timely and appropriate action to mitigate the threats associated with the containers stored in the shed.

A summary of the potential toxicological effects associated with the hazardous substances found at the Site is included as Attachment C.

B. Threats to the Environment

Hazardous substances released to the floor of the shed would be contained by the curbing that surrounds the shed. Heavy rains could cause these materials to overflow the containment provided by the curbing and be released into the environment contaminating soils and groundwater. This would further degrade the groundwater quality in the area. The upper glacial aquifer is classified IIb (federal) and GA (NYSDEC), i.e. as a potential source of drinking water. The Site is located in a recharge zone of the Magothy aquifer, a sole source aquifer for Long Island.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed action description

The following removal activities are proposed to address the immediate threats to human health and the environment posed by the Site.

- a. **Stabilization** - All containers that are open or are of questionable structural integrity will be overpacked or transferred to a new container. Materials that have been released to the floor of the shed will be cleaned up.
- b. **Sampling** - All containers with a volume of five gallons and greater will be sampled (see "Disposal" below).
- c. **Analysis** - All samples will be analyzed for compatibility. A bulking scheme will be developed based on the results of the compatibility analysis. Test bulks will be composited and analyzed for disposal parameters.

- d. **Disposal** - Upon receipt of disposal analysis, waste profiles will be completed and sent to disposal facilities for acceptance. Drummed wastes will be bulked with identified compatible materials and will be disposed of off-site at RCRA permitted facilities. Small containers, which are too costly to sample, analyze and bulk will be disposed of as lab packs.

2. Contribution to remedial performance

The removal action at the Site is consistent with the requirement of Section 104(a)(2) of CERCLA, which states, "any removal action undertaken...should...to the extent practicable, contribute to the efficient performance of any long-term remedial action with respect to the release or the threatened release concerned." Since any remedial action undertaken would encompass the work items in this response, this removal action is consistent with any future remedial work.

3. Description of alternative technologies

Because of the quantities and types of the hazardous substances and/or wastes at the Site, on-site treatment and/or incineration is not appropriate. The selected removal action includes the characterization of hazardous substances found at the Site and the transportation of all hazardous substances off-site for treatment and/or disposal at a RCRA permitted facility. The selected removal action has been determined to be the appropriate response action for the Site based upon the criteria of effectiveness, implementability and cost.

4. Engineering Evaluation/Cost Analysis (EE/CA)

Due to the time critical nature of this removal action, an EE/CA will not be prepared.

5. Applicable or Relevant and Appropriate Requirements (ARARs)

ARARs that are within the scope of this removal action will be met to the extent practicable. RCRA was determined to be an ARAR for the proposed removal action.

6. Project schedule

The proposed removal action can be initiated immediately upon approval of this Action Memorandum. It is anticipated that the removal action can be completed in eight weeks.

B. Estimated Costs

The estimated costs for the completion of this project are summarized below. A detailed cost estimate is included as Attachment D.

Extramural Costs:**Regional Allowance Costs:**

Total Cleanup Contractor Costs (including 15% contingency)	\$175,000
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**Other Extramural Costs Not Funded From
the Regional Allowance:**

Total TAT costs	<u>\$ 16,000</u>
Subtotal, Extramural Costs	\$191,000
Extramural Costs Contingency (15% of subtotal, extramural costs)	<u>\$ 29,000</u>
TOTAL, EXTRAMURAL COSTS	\$220,000

Intramural Costs:

Intramural Direct Costs	\$ 8,000
Intramural Indirect Costs	<u>\$ 17,000</u>
TOTAL, INTRAMURAL COSTS	\$ 25,000
TOTAL, REMOVAL PROJECT CEILING	\$245,000

**VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR
NOT TAKEN**

Should no action be taken or the planned action be delayed, hazardous materials stored in deteriorated containers could be released. A release of hazardous substances from these containers could result in the exposure of neighboring population and/or contamination of the environment. Additional releases of hazardous substances to the ground and groundwater would increase the cost and the time required to complete the remedial action.

VII. OUTSTANDING POLICY ISSUES

No known outstanding policy issues are associated with the Site.

VIII. ENFORCEMENT

Notice letters have been issued to several parties. None of the known potentially responsible parties (PRPs) can perform the required response action in a timely fashion. Investigations are continuing in an effort to identify additional PRPs.

IX. RECOMMENDATION

This decision document represents the selected removal action for the SMS Instruments Site in Deer Park, Suffolk County, New York, developed in accordance with CERCLA, as amended, and not inconsistent with the NCP. This decision is based on the administrative record for the Site.

Conditions at the Site meet the NCP Section 300.415(b)(2) criteria for a removal and I recommend your approval of the proposed removal action. The estimated project ceiling, if approved, will be \$245,000. Of this, an estimated \$175,000 comes from the Regional removal allowance. Funds for this removal action are currently within the Regional removal allowance.

Please indicate your approval and authorization of funding as per current Delegation of Authority, by signing below.

APPROVAL:

Kathleen C. Callahan **DATE:** 9/28/95
 Kathleen C. Callahan, Director
 Emergency and Remedial Response Division

DISAPPROVAL:

 Kathleen C. Callahan, Director
 Emergency and Remedial Response Division

cc: (after approval)

J. Fox, RA
 R. Salkie, ERRD-ADREPP
 W. McCabe, ERRD-DDNYC/P
 G. Zachos, ERRD-RAB
 J. Rotola, ERRD-RAB
 E. Dominach, ERRD-RAB
 M. Randol, EPD
 E. Schaff, ORC-NYCSUP
 D. Fischer, ORC-NYCSUP
 R. Gherardi, OPM-FIN
 S. Murphy, OPM-FIN
 B. Shaw, 5202G
 T. Johnson, 5202G
 M. O'Toole, NYSDEC
 T. Vickerson, NYSDEC
 C. Kelley, TATL

ATTACHMENT A

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

RECEIVED

SEP 12 11 03 AM '95

DATE: SEP 08 1995

SUBJECT: Drum Removal at the SMS Instruments Superfund Site, Deer Park, Suffolk County, New York

FROM: William J. McCabe, Deputy Director
for New York/Caribbean Programs
Emergency & Remedial Response Division

John E. LaPadula

TO: Richard Salkie, Associate Director
for Removal & Emergency Preparedness Programs
Emergency and Remedial Response Division

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We are requesting your assistance in removing these drums to avoid any potential releases of contaminants into the soils and groundwater. Please call me or have your staff call Abram Miko Fayon, the RPM of the site at (212) 637-4250, if you have any questions regarding this request.

Thank you for your assistance in this matter.

cc: J. Rotola

ATTACHMENT B

REM III SMS 06/8ch

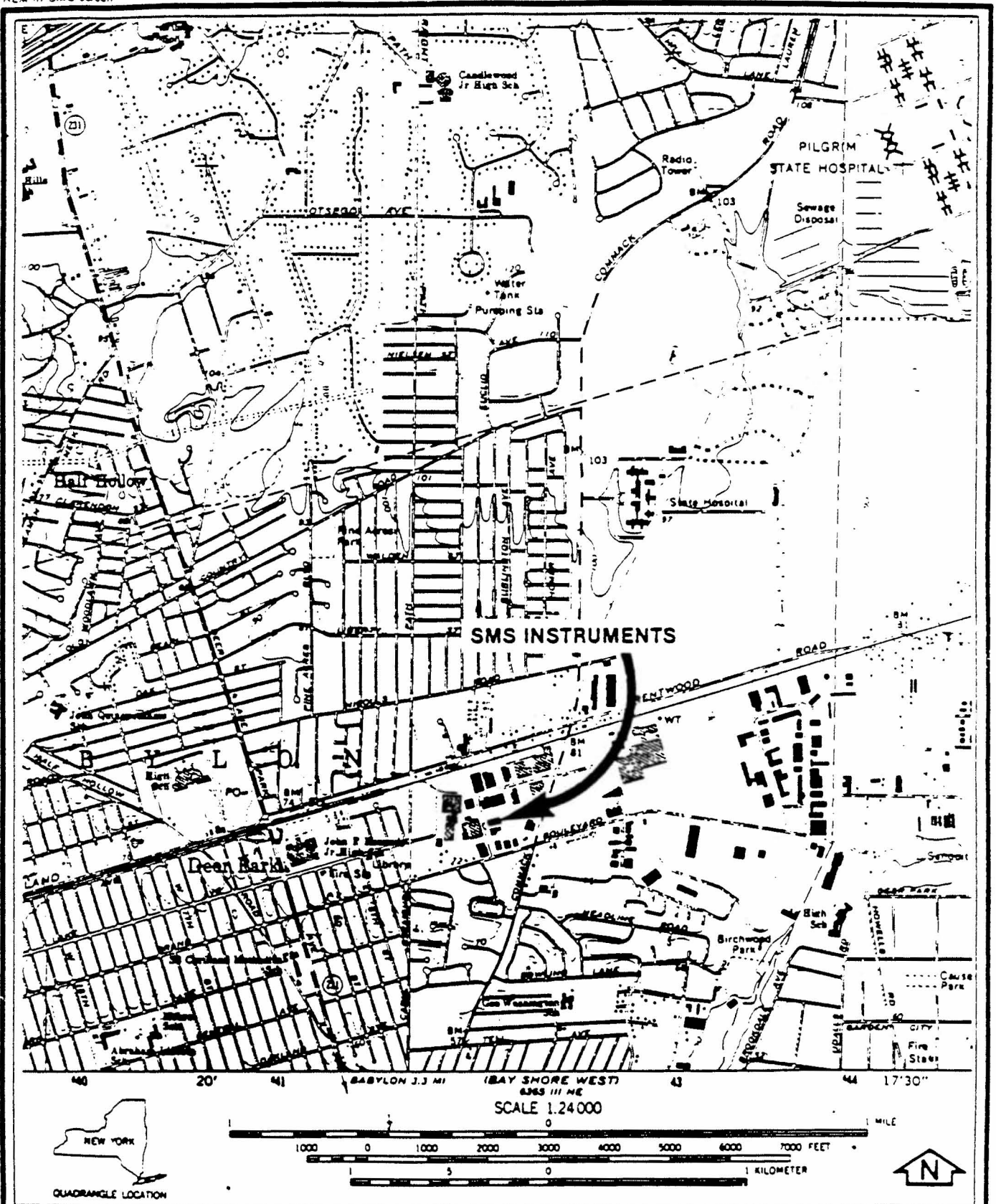


Figure 1

SITE LOCATION MAP, SMS INSTRUMENTS
DEER PARK, NEW YORK

US ENVIRONMENTAL
PROTECTION AGENCY

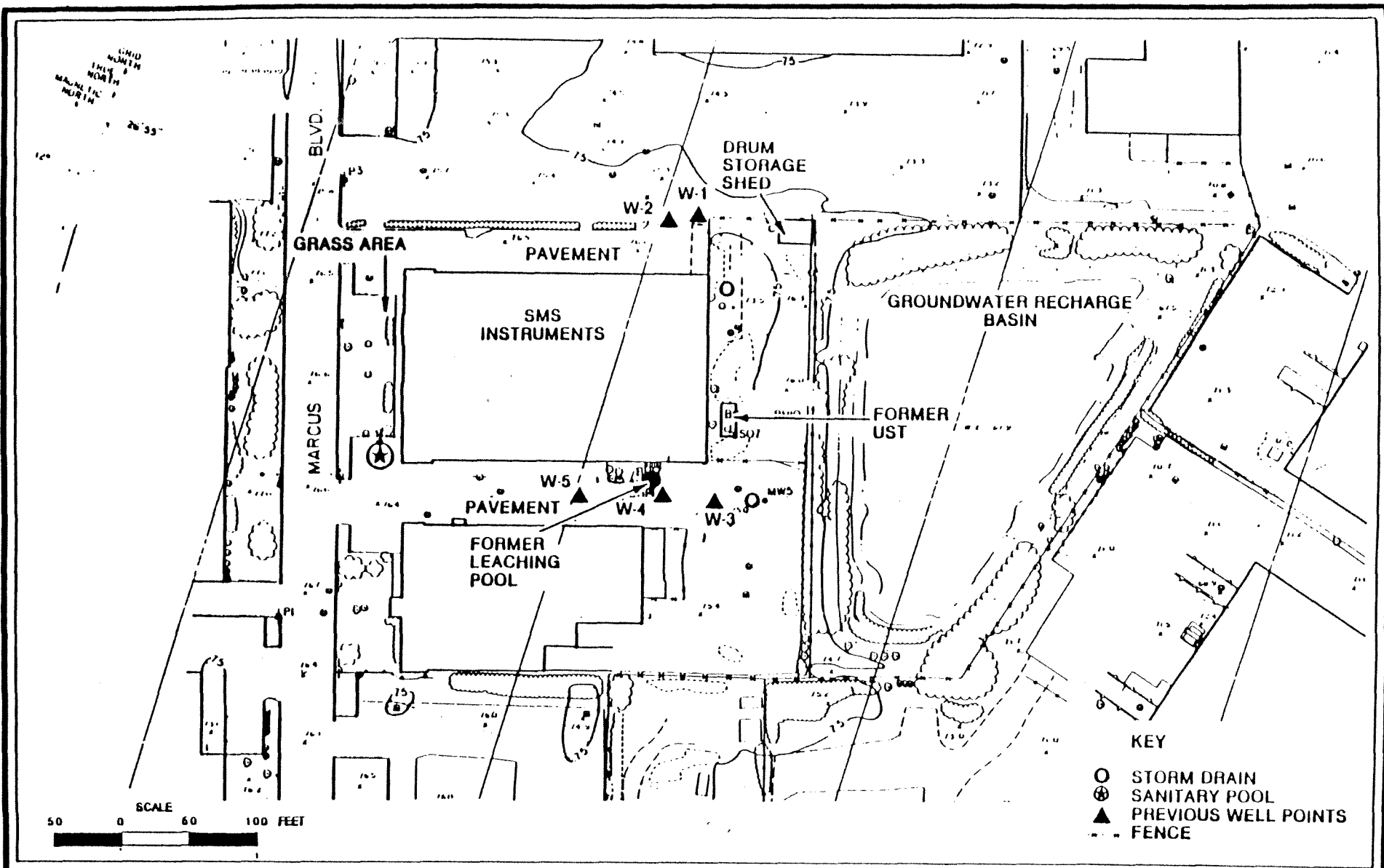


Figure 2
 SITE DESCRIPTION, SMS INSTRUMENTS
 DEER PARK, NEW YORK

US ENVIRONMENTAL
 PROTECTION AGENCY

ATTACHMENT C

**SUMMARY OF POTENTIAL TOXICOLOGICAL EFFECTS
FOR CONTAMINANT FOUND AT THE SMS INSTRUMENTS SITE**

	Eye, Skin, Mucous Membrane Irritation	Highly Toxic By Any Route	Central Nervous System Damage	Liver Damage	Kidney Damage	Heart Damage	Lung Damage	Carcinogenic	Mutagenic	Teratogenic
Cadmium	X				X	X				X
Chromium	X					X	X			
Chlorobenzene	X		X	X	X	X				
1,4-Dichlorobenzene	X			X	X	X				
Lead	X		X				X			
Methyl ethyl ketone	X		X			X				



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

2.2001



DATE Jul 12, 1995

LAB SAMPLE ID : 86825

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G1 DRUMS 12,24
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/05/95	EPA 1110	94-083-87	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/05/95	EPA 1010	87-126-31	KJR
Sulfide Reactivity	100	mg/L	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

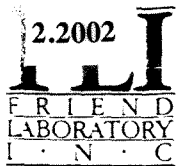
Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000001

Albany, NY Scranton, PA Jamestown, NY Boston, MA Syracuse, NY Watertown, NY



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID 86825

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G1 DRUMS 12,24
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

cc :

cc:

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Albany, NY

Scranton, PA

Jamestown, NY

Boston, MA

Syracuse, NY

Watertown, NY

000002



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86826

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road

Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86825
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1773
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<4900	5.0
o-Cresol	ND<4900	200.0
p-Cresol/m-Cresol	ND<4900	200.0
Hexachloroethane	ND<4900	3.0
Nitrobenzene	ND<4900	2.0
Hexachlorobutadiene	ND<4900	0.5
2,4,6-Trichlorophenol	ND<4900	2.0
2,4,5-Trichlorophenol	ND<4900	400.0
2,4-Dinitrotoluene	ND<4900	0.13
Hexachlorobenzene	ND<4900	0.13
Pentachlorophenol	ND<19600	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1565
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/14/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

** SURROGATES WERE DILUTED OUT.

*** SURROGATES NOT ADDED.

For questions regarding this report, please call and ask for Customer Services.

CC :

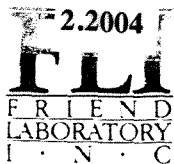
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000003



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 86826

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86825
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-389
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

oe

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: *Louise Brown*
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1773.D
 Acq Time : 13 Jul 95 9:08 pm
 Sample : 86826,10X
 Misc : AEC TCLP,7/5/95
 Quant Time: Jul 13 21:55 1995

2.2005

Operator: P. BRUTSCH
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(M.L.)
1) 1,4-DICHLOROBENZENE-D4	12.22	152	2183971	40.00	UG/ML	-0.25
19) NAPHTHALENE-D8	15.45	136	6987439	40.00	UG/ML	-0.25
34) ACENAPHTHENE-D10	19.98	164	3560535	40.00	UG/ML	-0.23
54) PHENANTHRENE-D10	23.32	188	4786319	40.00	UG/ML	-0.30
67) CHRYSENE-D12	30.65	240	2511125	40.00	UG/ML	-0.35
76) PERYLENE-D12	34.54	264	2209643	40.00	UG/ML	-0.33

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	0.00	99	0	0.00	UG/ML	0.00%
20) NITROBENZENE-D5	13.43	82	4740	0.07	UG/ML	0.07%
38) 2-FLUOROBIPHENYL	18.37	172	2782	0.03	UG/ML	0.03%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	27.99	244	2208	0.03	UG/ML	0.03%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) PHENOL	11.56	94	468135	5.61	UG/ML#	95
10) 1,3-DICHLOROBENZENE	12.07	146	628638	7.72	UG/ML#	92
11) 1,4-DICHLOROBENZENE	12.27	146	2344547	28.24	UG/ML#	97
12) 1,2-DICHLOROBENZENE	12.67	146	15731817	200.93	UG/ML#	93
13) 2-METHYLPHENOL	13.02	107	1505418	25.21	UG/ML#	85
14) BENZYL ALCOHOL	12.67	108	94505	2.24	UG/ML#	19
18) 3-METHYLPHENOL/4-METHYLPHE	13.43	107	1371072	17.79	UG/ML#	8
21) NITROBENZENE	13.43	77	458078	6.19	UG/ML#	42
24) 2,4-DIMETHYLPHENOL	14.74	122	477072	8.60	UG/ML#	21
28) BENZOIC ACID	15.11	122	288363	14.03	UG/ML#	1
42) 2,6-DINITROTOLUENE	19.98	165	430708	15.02	UG/ML#	25

Initial = 500 ml
 Final = 490 ml
 1000 → 1 ml

$$\text{det lim} = \left(\frac{5 \mu\text{s}}{\text{m}} \right) \left(\frac{1000 \text{ ml}}{\text{e}} \right) \left(\frac{490 \text{ ml}}{500 \text{ ml}} \right) \left(\frac{1 \text{ ml}}{1 \text{ ml}} \right) \left(\frac{1 \text{ ml}}{0.1 \text{ ml}} \right) \left(\frac{1 \text{ ml}}{10000} \right)$$

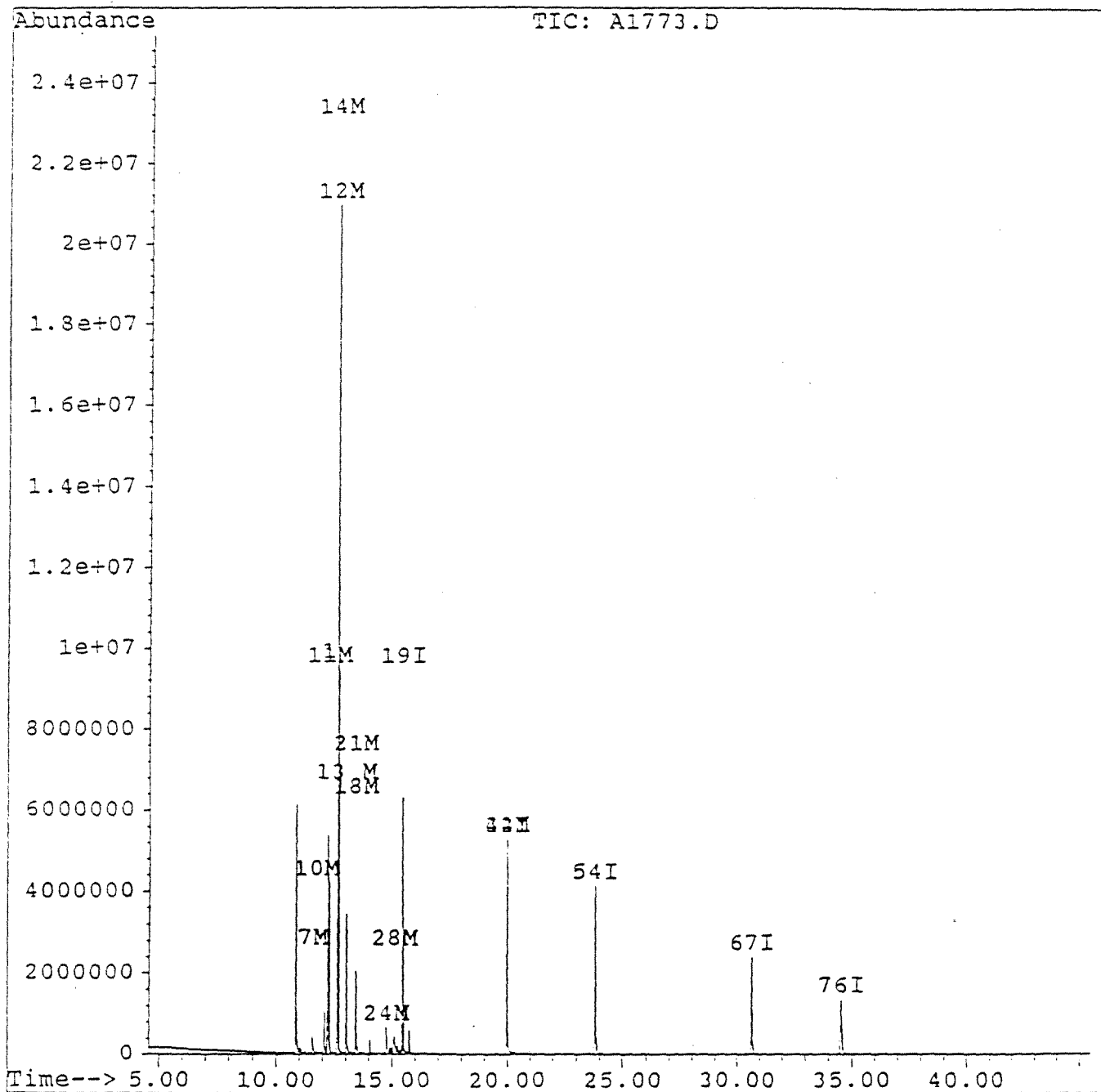
= 4900

0.01 ml

Data File : C:\HPCHEM\1\DATA\A1773.D
Acq Time : 13 Jul 95 9:08 pm
Sample : 86826,10X
Misc : AEC TCLP,7/5/95
Quant Time: Jul 13 21:55 1995

Operator: P. BRUTSCH
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration

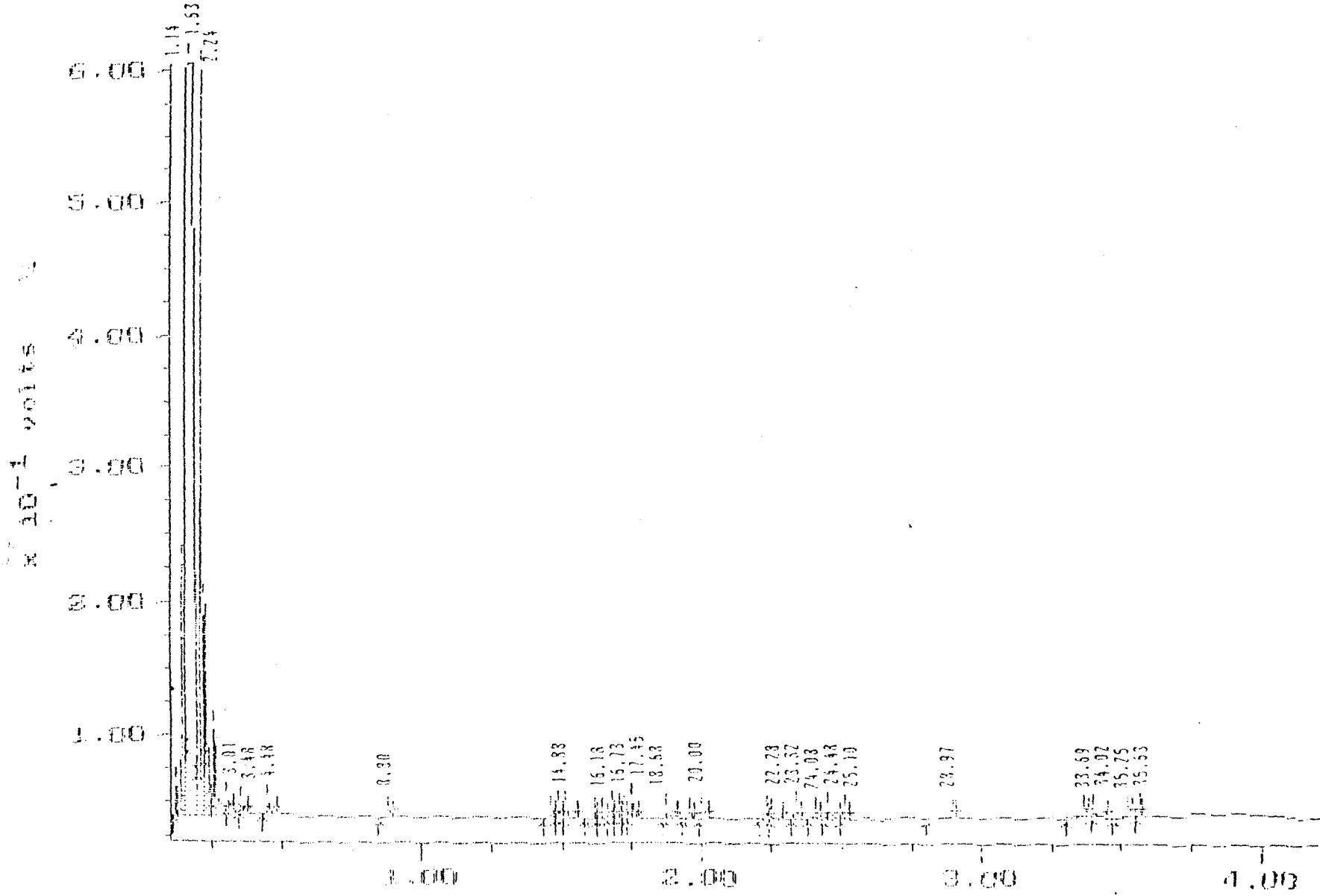


Sample: 3673 1/10
Acquired: 15-JUL-95 0:30
Dilution: 1 : 10.000

Channel: ECO 3
Method: C:\MAX\DATA3\HP70713

Filebase: E3951565
Operator: XXF

2-2007



000007

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:02:15

SAMPLE: 85826 1/10

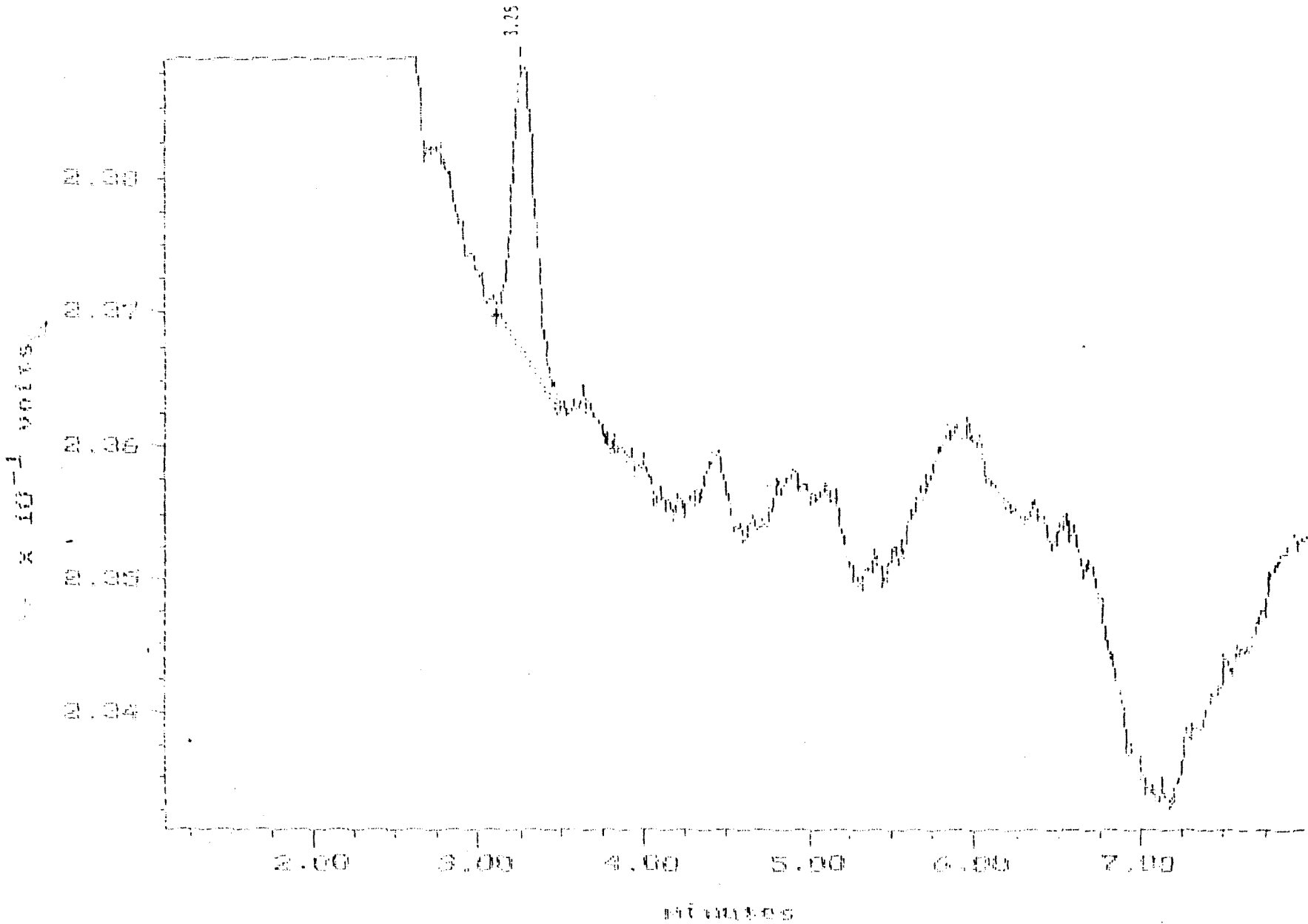
#73 in Method: PEST PRGC METH
 Acquired: 14-JUL-1995 0:30
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: 83951665
 Index: Disk
 Dilution: 10.000

DETECTOR: 800 3

FL#	Component Name	Original Conc (ug / l)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.147	0.032	135449		1.067	1.200
			1.425	0.040	1083803		1.300	1.493
			1.675	0.046	>16730355		1.483	1.992
			2.053	0.058	2392046		1.992	2.183
			2.242	0.063	800619		2.183	2.450
			2.533	0.071	555639		2.450	3.253
			3.008	0.084	22489		2.950	3.253
			3.483	0.098	29389		3.409	3.253
			4.483	0.126	55577		4.317	4.650
			8.300	0.247	19959		8.492	8.250
			14.600	0.410	30361		14.350	14.757
			14.875	0.418	34687		14.757	15.008
			15.142	0.425	39371		15.008	15.617
			16.183	0.454	7037		15.792	16.283
			16.400	0.460	9585		16.283	16.600
			16.725	0.469	31175		16.600	16.850
			17.025	0.478	25051		16.850	17.125
			17.233	0.484	15667		17.125	17.325
			17.450	0.490	72354		17.325	17.253
			18.683	0.524	25123		18.558	19.125
			19.525	0.543	12998		19.300	19.692
			20.000	0.561	37880		19.858	20.200
			22.283	0.625	37711		22.050	22.425
			22.525	0.637	23510		22.425	22.947
			23.317	0.655	33333		23.150	23.508
			24.083	0.676	10861		23.742	24.125
			24.483	0.687	44879		24.325	24.950
			25.100	0.705	14979		24.950	25.242
			28.967	0.813	12015		28.017	29.108
			33.592	0.946	14273		33.017	33.908
			34.017	0.955	36149		33.883	34.500
			35.250	0.989	13210		34.733	35.353
			35.625	1.000	10755		35.508	35.750

Sample: 86026
Acquired: 17-JUL-95 16:57
Channel: FCO 1
Method: C:\MAX\DATA2\HR87-17
Operator: SHB
Dilution: 1 : 10.000
Filename: 81950309
2.2009



000009

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 3:21:15

SAMPLE: 86325

#13 in Method: SW 046 - 8150 Herbicides
Acquired: 17-JUL-1995 16:57
Rate: 2.0 points/sec
Duration: 8.000 minutes
Operator: SM8

Type: UNKN
Instrument: Instrument 2
Filename: E1950389
Index: Disk
Dilution: 10.000

DETECTOR: ECO 1

EL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
---	-----	-----	-----	-----	-----	-----	-----	-----
			3.250	1.000	20005		3.117	3.475
			-----	-----	-----			
TOTAL		0.000			20005			



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86827

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86825
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2337
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/03/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<500	0.2
1,1-Dichloroethene	ND<500	0.7
Methyl Ethyl Ketone	ND<5000	200.0
Chloroform	ND<500	6.0
Carbon Tetrachloride	ND<500	0.5
Benzene	ND<500	0.5
1,2-Dichloroethane	ND<500	0.5
Trichloroethene	ND<500	0.5
Tetrachloroethene	ND<500	0.7
Chlorobenzene	2280	100.0
Surrogate Recovery (%)		
Dibromofluoromethane	99	
Toluene-d8	96	
Bromofluorobenzene	113	

Method : SW846/5030/8240	Analyst : CPW	Notebook Reference : 95-106-2340
Compounds Detected	Units : MG/L	Date Analyzed : 07/03/95
-----	Results	-----
1,4-Dichlorobenzene	68900	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	96	
Toluene-d8	93	
Bromofluorobenzene	109	

LOWER DETECTION LEVELS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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Data File : C:\HPCHEM\1\DATA\C2337.D
 Acq Time : 3 Jul 95 3:07 pm
 Sample : 2 86827 1:100,000 zhe aec
 Misc : 1:100 -> mech, 1:10,000 -> h2o
 Quant Time: Jul 3.15:37 1995

Operator: C. Weida
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.77	168	3057995	50.00	ug/l	0.02
32) 1,4-Difluorobenzene	10.54	114	2683292	50.00	ug/l	0.01
39) Chlorobenzene-d5	15.84	117	2114501	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.41	152	1100655	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.44	113	1783045	49.55	ug/l	99.11%
41) Toluene-d8	13.36	98	2226082	47.85	ug/l	95.70%
59) 4-Bromofluorobenzene	17.73	95	1700876	56.44	ug/l	112.88%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.79	43	28874	18.25	ug/l	94
22) MEK(2-Butanone)	7.00	78	8071	11.00	ug/l	#
28) Carbon Tetrachloride	6.75	117	240701	6.50	ug/l	#
29) 1,1-Dichloropropane	8.55	75	202071	2.25	ug/l	#
50) Chlorobenzene	15.88	112	899095	22.83	ug/l	98
52) 1,2,3-Trichloropropane	10.00	79	1007959	72.51	ug/l	#
63) trans-1,4-Dichloro-2-butene	10.00	53	73550	12.01	ug/l	#
64) n-Propylbenzene	10.23	91	31700211	130.00	ug/l	#
65) 2-Chlorotoluene	18.23	91	31720211	693.76	ug/l	92
66) 4-Chlorotoluene	18.39	91	1444331	29.51	ug/l	96
71) 1,3-Dichlorobenzene	19.30	146	6380769	206.07	ug/l	94
73) 1,4-Dichlorobenzene	19.44	146	17090965	548.65	ug/l	94
76) 1,2-Dichlorobenzene	19.94	146	40253929	1518.85	ug/l	87
78) DDEP(1,2-Dibromo-3-chlorop)	20.79	79	10755	11.95	ug/l	#
79) 1,2,4-Trichlorobenzene	21.65	100	261769	10.75	ug/l	#
81) Naphthalene	21.88	128	57427	3.00	ug/l	#
82) 1,2,3-Trichlorobenzene	22.10	130	36889	1.10	ug/l	26

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

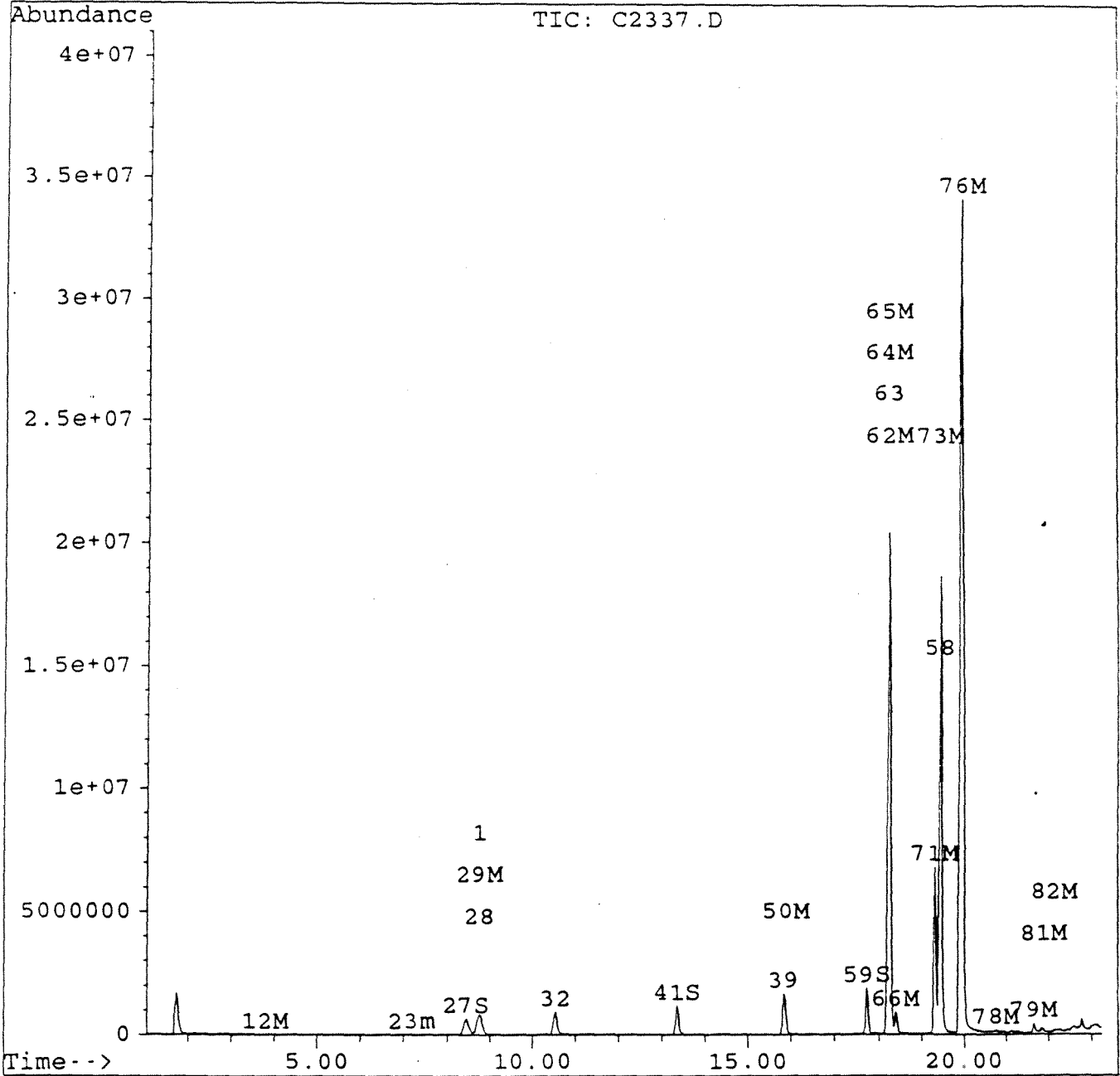
Quantitation Report

2.2013

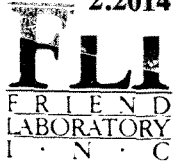
File : C:\HPCHEM\1\DATA\C2337.D
Acq Time : 3 Jul 95 3:07 pm
Sample : 2 86827 1:100,000 zhe aec
Misc : 1:100 -> meoh, 1:10,000 -> h2o
Quant Time: Jul 3 15:37 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration



2.2014



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86828

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G-2DRUM 25,27,29,30,31,33
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/05/95	EPA 1110	94-083-87	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	IGNITABLE		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	66	mg/L	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

QC

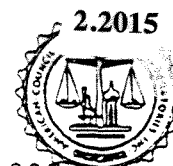
Approved by: Lindsey Brown
QUALITY ASSURANCE

NY 10252 PA 68180 NJ 73168 EPA NY 033

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86828

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G-2DRUM 25, 27, 29, 30, 31, 33
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-147	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

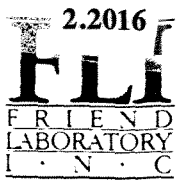
cc :

cc:

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86829

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86828
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	ND<0.160	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.120	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	0.150	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

Approved by: Lindsey Brown
QUALITY ASSURANCE

NY 10252 PA 68180 NJ 73168 EPA NY 033

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID. : 86829

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86828
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1778
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<550	5.0
o-Cresol	ND<550	200.0
p-Cresol/m-Cresol	ND<550	200.0
Hexachloroethane	ND<550	3.0
Nitrobenzene	ND<550	2.0
Hexachlorobutadiene	ND<550	0.5
2,4,6-Trichlorophenol	ND<550	2.0
2,4,5-Trichlorophenol	ND<550	400.0
2,4-Dinitrotoluene	ND<550	0.13
Hexachlorobenzene	ND<550	0.13
Pentachlorophenol	ND<2200	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1562
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

** SURROGATES DILUTED OUT.

*** SURROGATES NOT ADDED.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE SEMIVOLATILES
TELEPHONE (607) 565-3500

WAVERLY, NY 14892-1532
FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 86829

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86828
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	by CLIENT

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-387
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

2.2019

Data File : C:\HPCHEM\1\DATA\A1778.D
 Acq Time : 17 Jul 95 1:32 pm
 Sample : 86829,
 Misc : AEC TELP, 7/5/95
 Quant Time: Jul 17 14:19 1995

Operator: DIANE BOZZ
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update :- Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.25	152	2794754	40.00	UG/ML	-0.22
19) NAPHTHALENE-D8	15.47	136	8798702	40.00	UG/ML	-0.24
34) ACENAPHTHENE-D10	20.01	164	4943563	40.00	UG/ML	-0.26
54) PHENANTHRENE-D10	23.85	188	6590485	40.00	UG/ML	-0.27
67) CHRYSENE-D12	30.68	240	3314891	40.00	UG/ML	-0.33
76) PERYLENE-D12	34.58	264	2992857	40.00	UG/ML	-0.34

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	11.92	99	10236	0.09	UG/ML	0.05%
20) NITROBENZENE-D5	13.86	82	17248	0.19	UG/ML	0.19%
38) 2-FLUOROBIPHENYL	18.39	172	3077	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	0.00	244	0	0.00	UG/ML	0.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
42) 2,6-DINITROTOLUENE	20.01	165	599293	15.05	UG/ML#	24

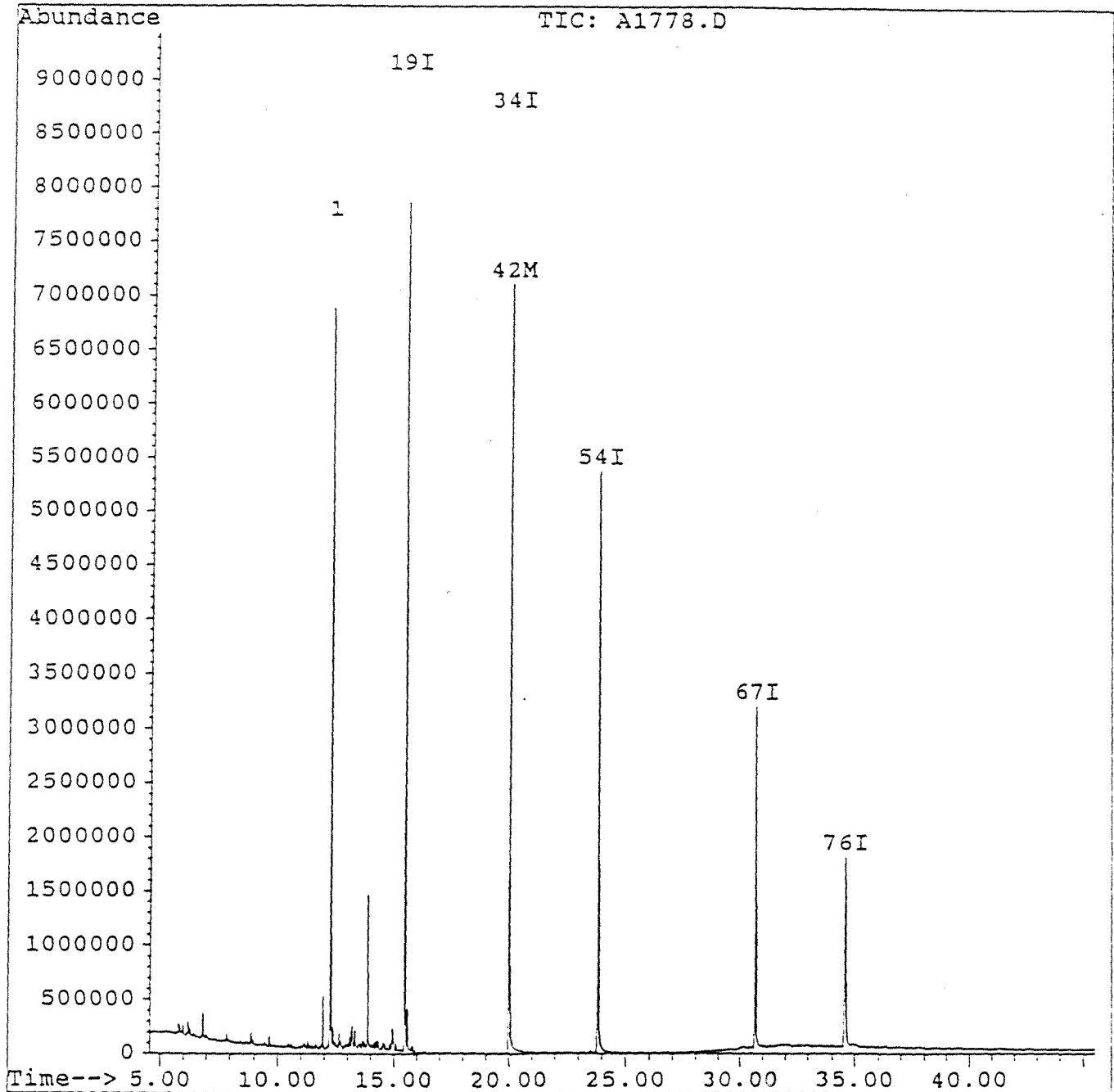
600 ml → 500 ml, 10 ml → 1 ml

$$\begin{aligned}
 \text{det lim} &= \left(\frac{5 \mu\text{g}}{\text{ml}} \right) \left(\frac{1000 \text{ ml}}{1 \mu\text{l}} \right) \left(\frac{1 \text{ mg}}{1000 \mu\text{g}} \right) \left(\frac{500 \text{ ml}}{600 \text{ ml}} \right) \left(\frac{1 \text{ ml}}{10 \mu\text{l}} \right) \\
 &= 550 \frac{\text{mg}}{\mu\text{l}}
 \end{aligned}$$

Data File : C:\HPCHEM\1\DATA\A1778.D
Acq Time : 17 Jul 95 1:32 pm
Sample : 86829,
Misc : AEC TCLP, 7/5/95
Quant Time: Jul 17 14:19 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

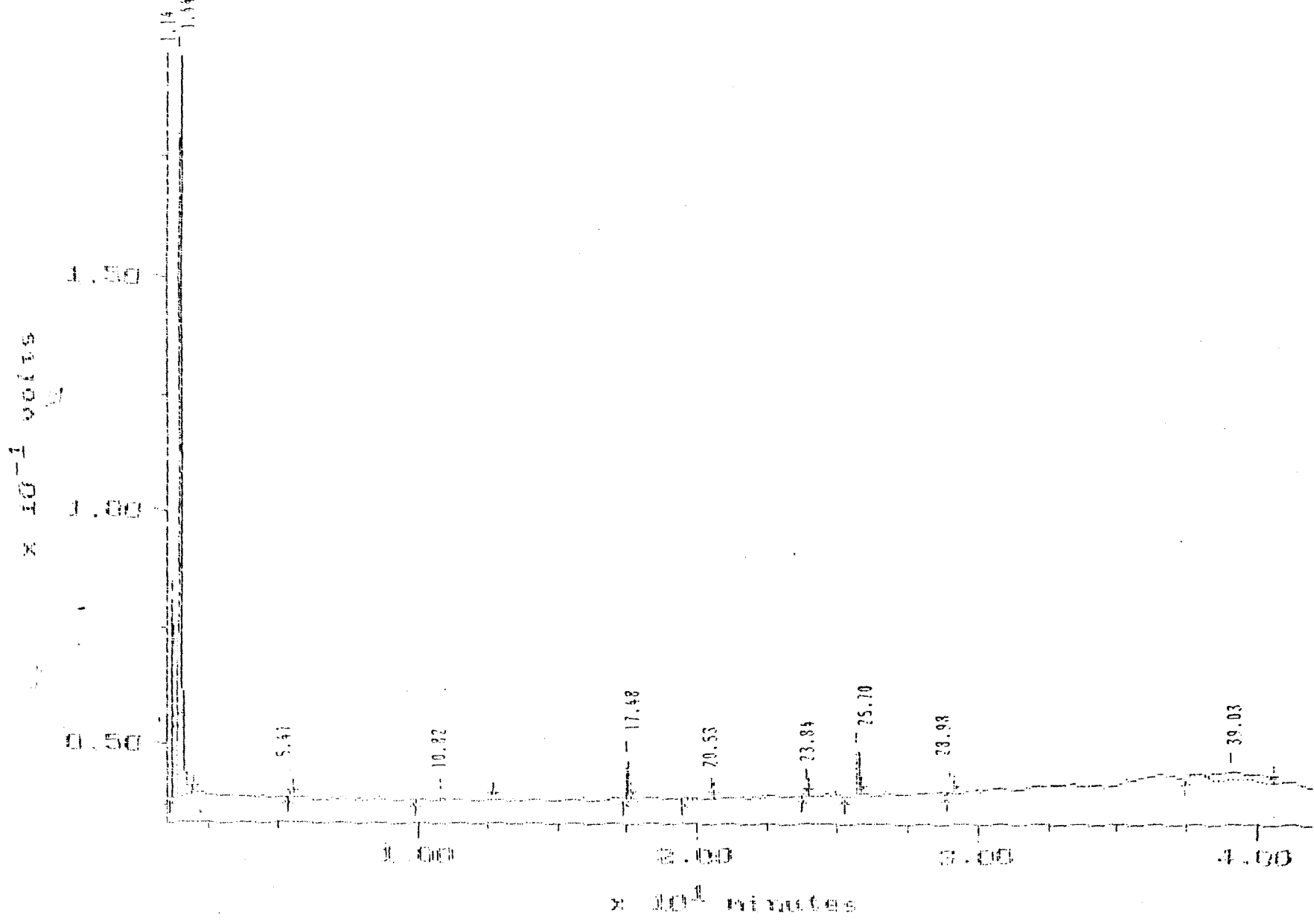
Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



Sample: 86029 1/10
Acquired: 13-JUL-95 77:16
Dilution: 1 : 10.000

Channel: ECO 3
Method: C:\MAX\DATA3\RP20713

Filename: C:\DATA3\007
Operator: KXF
2-2021



000021

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 3:01:22

36329 1/10

#20 in Method: PEST PROC METH
 Acquired: 13-JUL-1995 22:15
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E395156Z
 Index: Disk
 Dilution: 10.000

QR: EGO 3

Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
		1.142	0.029	359674		1.067	1.317
		1.442	0.037	1112172		1.317	1.933
		5.408	0.139	11398		5.308	5.525
		10.817	0.277	41503		9.892	12.657
		17.475	0.448	47089		17.342	17.617
		20.525	0.526	13791		19.492	20.617
		23.842	0.611	12021		23.700	23.975
		25.700	0.659	47346		25.275	25.858
		28.983	0.743	11907		28.858	29.133
		39.025	1.000	198257		37.367	40.558
	0.000			1349661			

1 ml ⇒ 100 ml ⇒ 10x
WD < 5.0 $\frac{mg}{\mu}$

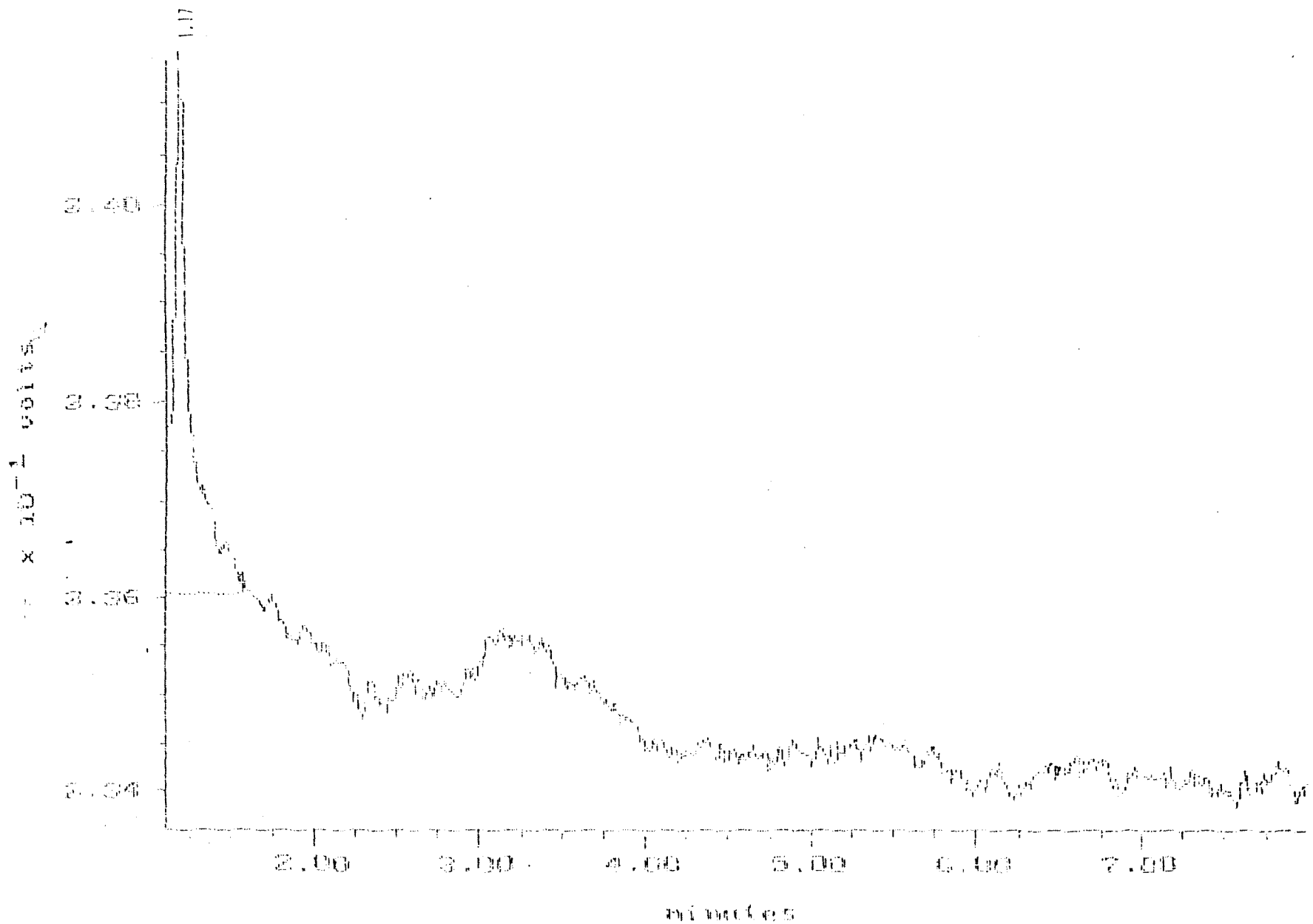
86829 7/26

Sample: 80079
Acquired: 17-JUN-95 16:36

Channel: ECD 1
Method: c:\MAX\DATA7\HR87-17

2.2023

Filename: E1950387
Operator: SM8



000023

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:20:18

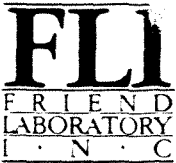
SAMPLE: ~~80327~~ 86829 TB726

#11 in Method: SW 846 - 3150 Herbicides
Acquired: 17-JUL-1995 16:35
Rate: 2.0 points/sec
Duration: 3.000 minutes
Operator: SMR

Type: UNKN
Instrument: Instrument 2
Filename: E1950387
Index: Disk

DETECTOR: ECO 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.167	1.000	38775		1.100	1.567
TOTAL		0.000			38775			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 8683Q

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86828
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2375
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/05/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<25	0.2
1,1-Dichloroethene	ND<25	0.7
Methyl Ethyl Ketone	ND<250	200.0
Chloroform	ND<25	6.0
Carbon Tetrachloride	ND<25	0.5
Benzene	ND<25	0.5
1,2-Dichloroethane	ND<25	0.5
Trichloroethene	ND<25	0.5
Tetrachloroethene	ND<25	0.7
Chlorobenzene	ND<25	100.0
1,4-Dichlorobenzene	ND<25	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	93	
Toluene-d8	98	
Bromofluorobenzene	111	

LOWER DETECTION LEVELS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

009

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2375.D
 Acq Time : 5 Jul 95 9:21 pm
 Sample : 14_86830 1:5000 zhe aec
 Misc : g2
 Quant Time: Jul 6 8:28 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	8.80	168	2916674	50.00	ug/l	0.05
32) 1,4-Difluorobenzene	10.56	114	2590905	50.00	ug/l	0.03
39) Chlorobenzene-d5	15.84	117	2036680	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.40	152	1060519	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.49	113	1598500	46.58	ug/l	93.15%
41) Toluene-d8	13.36	98	2187341	48.81	ug/l	97.63%
59) 4-Bromofluorobenzene	17.72	95	1613490	55.57	ug/l	111.13%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.76	43	53300	35.33	ug/l	99
15) Methylene Chloride	4.41	84	2231335	166.14	ug/l	99
20) Carbon Tetrachloride	6.00	117	299031	6.57	ug/l #	18
29) 1,1-Dichloroethane	8.20	75	105615	6.01	ug/l #	5
40) MTBE(1-Methyl-2-pentanone)	12.10	42	560075	75.00	ug/l #	1
42) Toluene	13.48	92	10477332	371.71	ug/l	92
40) 2-Hexanone	14.70	43	801706	17.77	ug/l #	2
52) Ethylbenzene	16.04	106	1329161	83.91	ug/l	98
53) p-Xylene/m-Xylene	16.23	106	5825806	285.36	ug/l	98
54) o-Xylene	16.87	106	1405471	70.18	ug/l	94
57) Isopropylbenzene	17.43	105	381149	6.80	ug/l	99
61) 1,1,1,2-Tetrachloroethane	18.07	83	20515	6.03	ug/l #	30
63) trans-1,4-Dichloro-2-butene	18.09	53	35305	0.01	ug/l #	3
64) n-Propylbenzene	18.06	91	741920	11.90	ug/l	98
65) 2-Chlorotoluene	18.08	91	300670	7.03	ug/l #	49
66) 1-Chlorotoluene	18.35	91	161170	3.40	ug/l #	10
67) 1,3,5-Trimethylbenzene	18.35	105	1485732	38.03	ug/l	98
68) tert-Butylbenzene	18.90	119	436355	9.78	ug/l	85
69) 1,2,4-Trimethylbenzene	18.90	105	3161969	77.95	ug/l	99
70) sec-Butylbenzene	19.11	105	303100	7.00	ug/l #	64
72) 4-Isopropyltoluene	19.31	119	856187	19.46	ug/l	99
74) 1,2,3-Trimethylbenzene	19.46	105	1897745	52.45	ug/l	98
75) Benzyl Chloride	19.71	91	806061	10.50	ug/l #	00
77) n-Butylbenzene	19.81	91	576050	15.10	ug/l #	3
81) Napthalene	21.87	128	141604	9.89	ug/l #	83

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

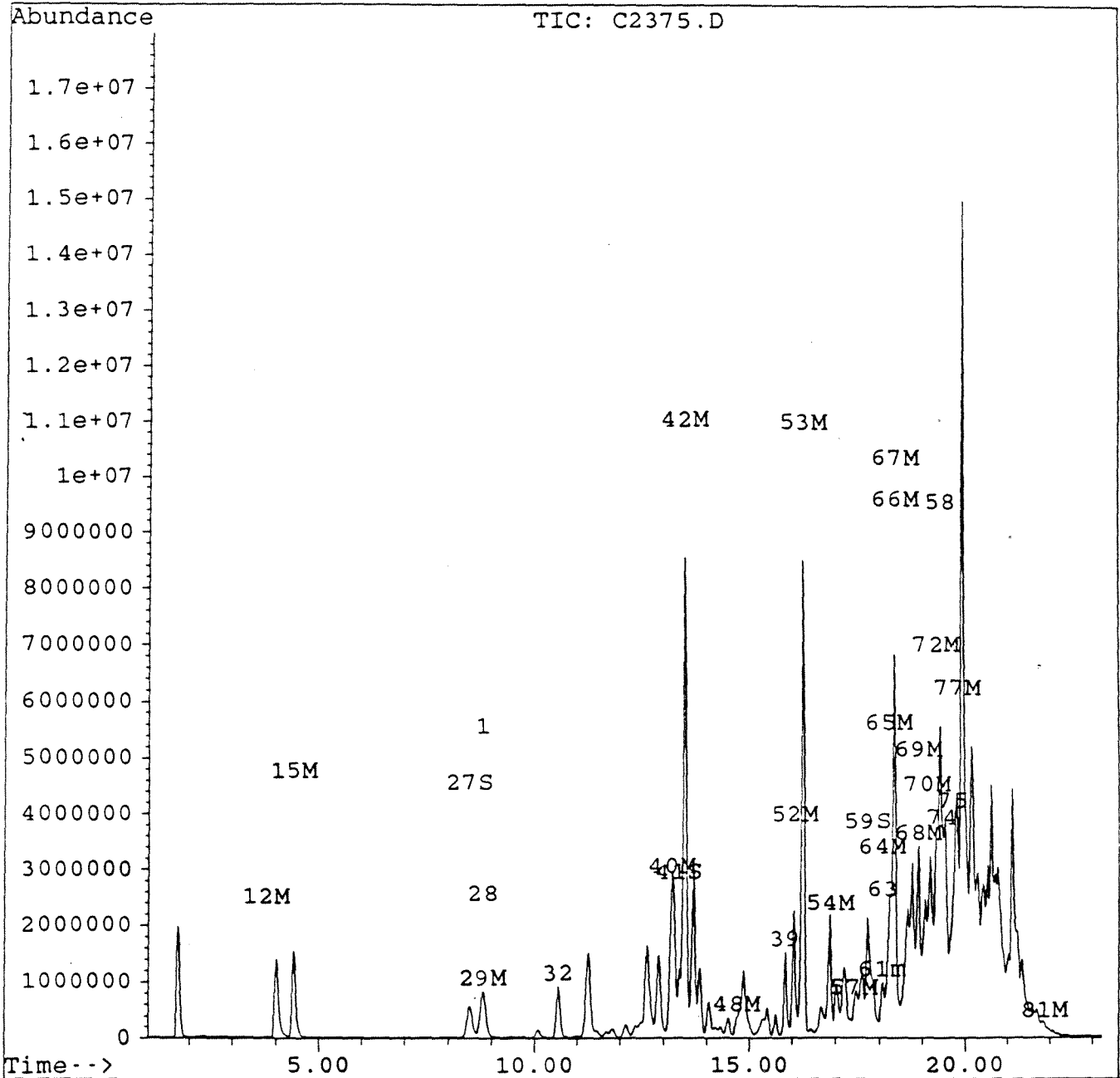
Quantitation Report

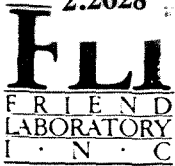
2.2027

Data File : C:\HPCHEM\1\DATA\C2375.D
Acq Time : 5 Jul 95 9:21 pm
Sample : 14 86830 1:5000 zhe aec
Misc : g2
Quant Time: Jul 6 8:28 1995

Operator: C. Weirde
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86831

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G3 DRUMS 6,17
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Corrosivity	Noncorrosi		07/06/95	EPA 1110	94-083-88	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	130	mg/L	07/11/95	SW 846	94-221-16	BJH

* VAPOR BURNS 20 DEGREES C TO 60 DEGREES C

For questions regarding this report, please call Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86831

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G3 DRUMS 6,17
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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DATE Jul 19, 1995

LAB SAMPLE ID : 86832

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86831
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	10.0	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	1.82	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	3.86	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	5.25	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	0.04	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	ND<0.060	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

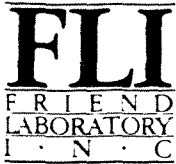
CC :

QC

Approved by:
 QUALITY ASSURANCE

NY 10252 PA 68180 NJ 73168 EPA NY 033

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



RESEARCH CIRCLE WEAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE : Jul 27, 1995

LAB SAMPLE ID : 86832

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86831
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1777
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<33	5.0
o-Cresol	ND<33	200.0
p-Cresol/m-Cresol	ND<33	200.0
Hexachloroethane	ND<33	3.0
Nitrobenzene	ND<33	2.0
Hexachlorobutadiene	ND<33	0.5
2,4,6-Trichlorophenol	ND<33	2.0
2,4,5-Trichlorophenol	ND<33	400.0
2,4-Dinitrotoluene	ND<33	0.13
Hexachlorobenzene	ND<33	0.13
Pentachlorophenol	ND<133	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1563
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.
 ** SURROGATES WERE DILUTED OUT.
 *** SURROGATES NOT ADDED.

For questions regarding this report, please call and ask for Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



DATE Jul 20, 1995

LAB SAMPLE ID : 86832

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86831
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-392
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1777.D
 Acq Time : 17 Jul 95 12:29 pm
 Sample : 86832,
 Misc : AEC TCLP,7/5/95
 Quant Time: Jul 17 13:18 1995

Operator: DIANE BOUR
 Inst : GC/MS
 Multiplr: 1.00

2.2033

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.24	152	2692479	40.00	UG/ML	-0.23
19) NAPHTHALENE-D8	15.47	136	8421634	40.00	UG/ML	-0.24
34) ACENAPHTHENE-D10	20.01	164	4778054	40.00	UG/ML	-0.26
54) PHENANTHRENE-D10	23.84	188	6188375	40.00	UG/ML	-0.28
67) CHRYSENE-D12	30.68	240	2967595	40.00	UG/ML	-0.32
76) PERYLENE-D12	34.60	264	2589117	40.00	UG/ML	-0.32

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	9.04	112	24041	0.26	UG/ML	0.13%
6) PHENOL-D6	11.95	99	390643	3.68	UG/ML	1.84%
20) NITROBENZENE-D5	13.88	82	470607	5.37	UG/ML	5.37%
38) 2-FLUOROBIPHENYL	18.37	172	2691	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	28.52	244	7196	0.08	UG/ML	0.08%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,2-DICHLOROBENZENE	12.65	146	344973	3.57	UG/ML#	73
16) N-NITROSODI-N-PROPYLAMINE	13.12	70	348790	5.09	UG/ML#	39
22) ISOPHORONE	14.57	82	1241786	7.63	UG/ML#	52
42) 2,6-DINITROTOLUENE	20.01	165	577670	15.01	UG/ML#	24

600ml → 40ml

10ul → 1ml

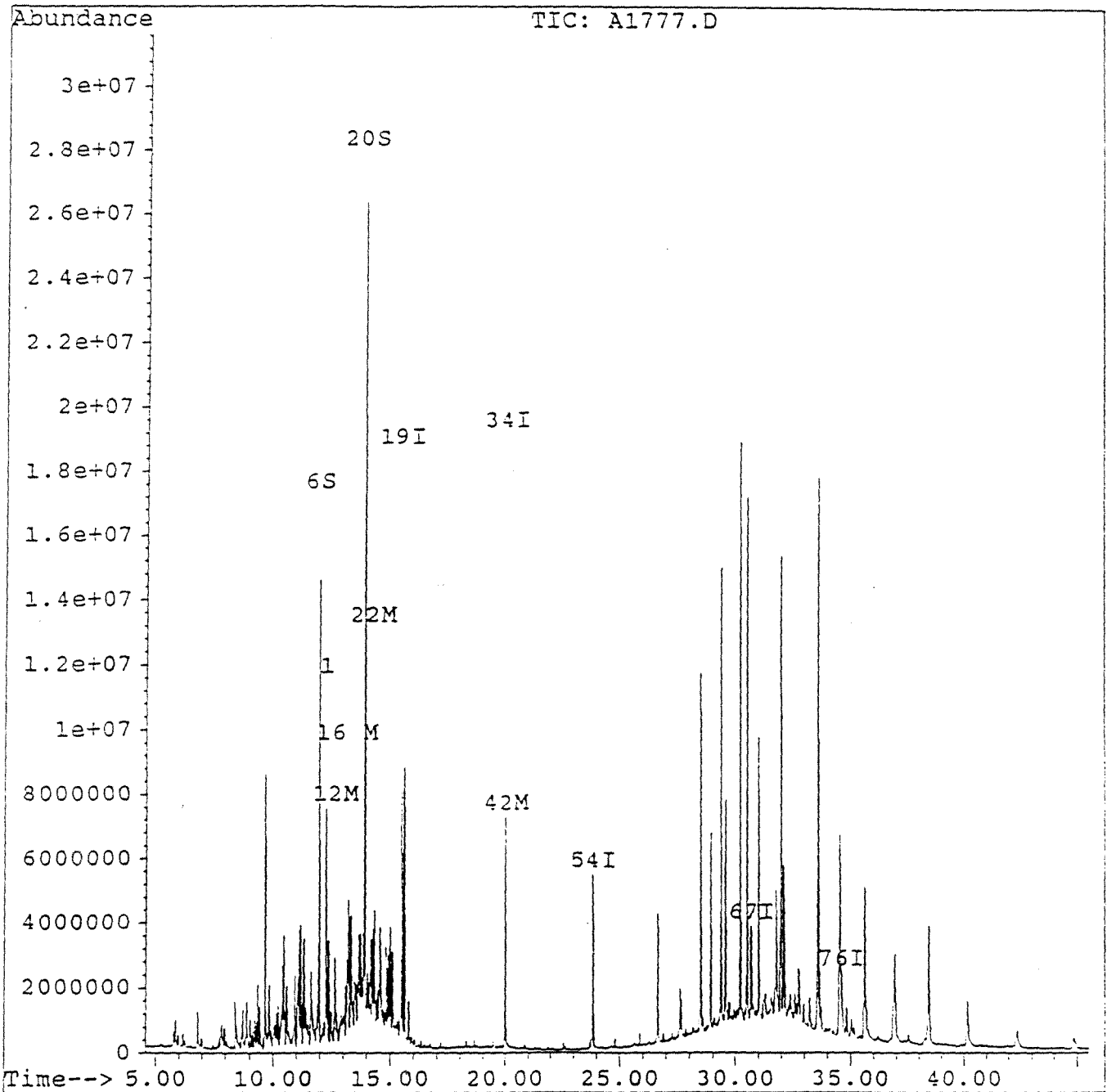
det lim
~~det lim~~ = $\left(\frac{5\mu\text{g}}{\text{ml}}\right) \left(\frac{1000\text{ml}}{\text{l}}\right) \left(\frac{40\text{ml}}{600\text{ml}}\right) \left(\frac{1\text{ml}}{.01\text{ml}}\right) \left(\frac{1\text{mg}}{100\mu\text{g}}\right)$

= 33.3 $\frac{\text{mg}}{\text{l}}$

File Name : C:\HPCHEM\1\DATA\A1777.D
Acq Time : 17 Jul 95 12:29 pm
Sample : 86832,
Misc : AEC TCLP,7/5/95
Quant Time: Jul 17 13:18 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

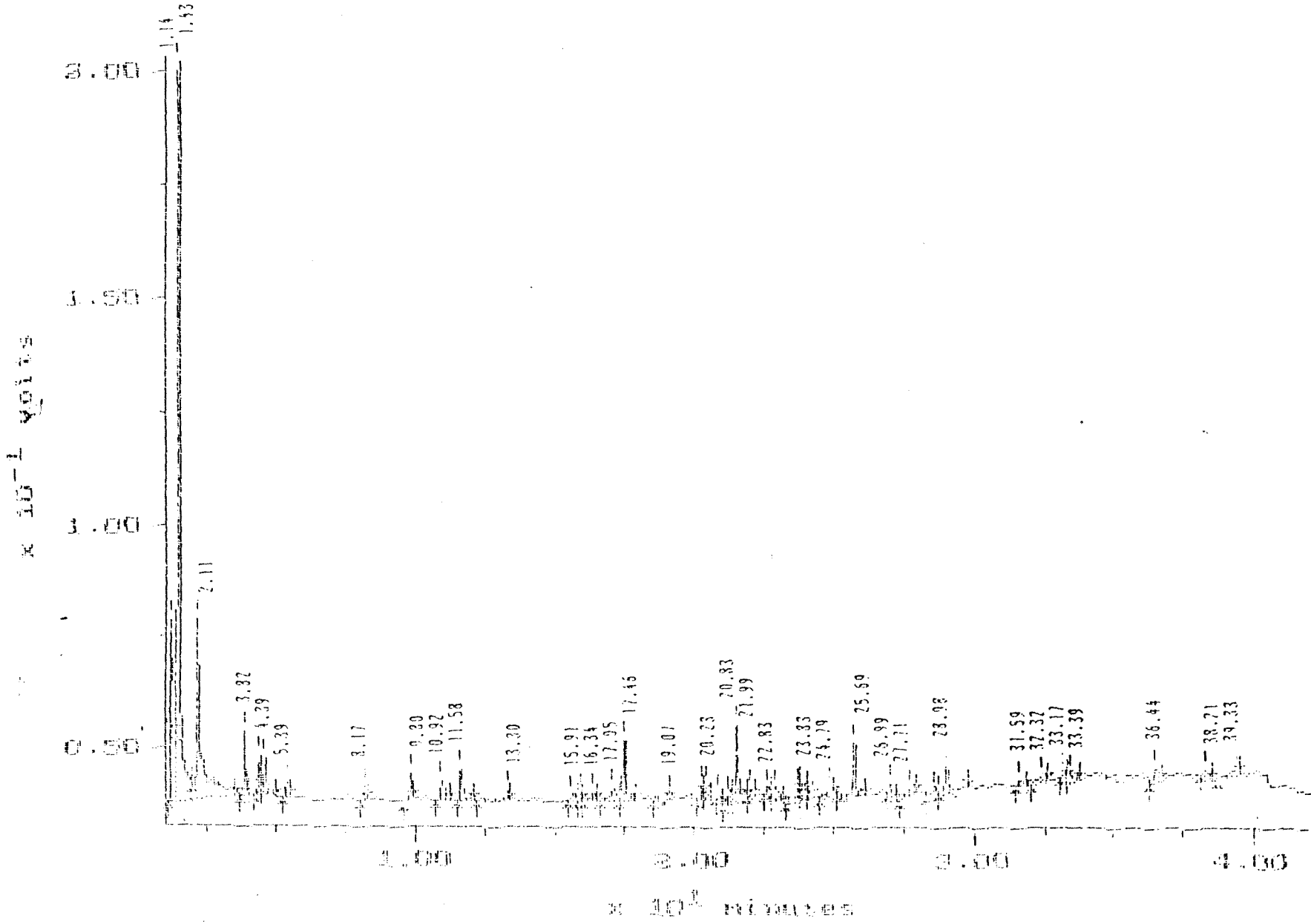
Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



Sample: 86837 1/10
Acquired: 13-JUL-95 23:01
Dilution: 1 : 10.000

Channel: ECD 3
Method: C:\MAX\DATA2\HP20713

Filename: E39515.D
Operator: KKF



000035

(c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 3:01:39

PGE: 86832 1/10

#21 in Method: PEST PROC METH
 Acquired: 13-JUL-1995 23:01
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951563
 Index: Disk
 Dilution: 10.000

DETECTOR: ECD 3

Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
		1.142	0.029	305549		1.067	1.308
		1.433	0.036	1234867		1.308	1.997
		2.108	0.054	439605		1.997	3.550
		3.317	0.097	59464		3.100	4.042
		4.392	0.112	50057		4.217	4.500
		4.575	0.116	51723		4.500	5.017
		5.392	0.137	21868		5.225	5.533
		8.157	0.208	16780		7.933	8.300
		9.300	0.249	28139		9.575	9.733
		10.917	0.278	35604		10.717	11.225
		11.583	0.294	55377		11.453	12.058
		13.300	0.338	27963		12.208	13.425
		15.567	0.396	10754		15.442	15.775
		15.908	0.404	11916		15.775	16.017
		16.242	0.415	18389		15.017	15.433
		17.050	0.433	32375		16.558	17.258
		17.458	0.444	104407		17.258	17.933
		19.067	0.485	423		18.500	19.142
		20.233	0.514	22722		20.100	20.225
		20.400	0.519	21914		20.325	20.617
		20.825	0.529	11590		20.717	21.042
		21.225	0.540	16498		21.042	21.317
		21.458	0.546	138290		21.317	21.383
		21.992	0.559	11744		21.383	22.142
		22.592	0.574	16943		22.450	22.725
		22.825	0.580	35319		22.725	23.142
		23.692	0.602	42925		23.242	23.758
		23.825	0.606	30178		23.758	24.000
		24.075	0.612	12899		24.000	24.208
		24.792	0.630	22319		24.500	24.857
		25.592	0.652	56363		25.058	25.117
		26.992	0.686	20805		26.892	27.275
		27.798	0.704	27511		27.350	27.975
		28.567	0.726	15892		28.292	28.717

28.975	0.727	19374	28.717	29.793
31.592	0.803	14672	31.500	31.825
32.317	0.827	11487	32.950	32.542
33.167	0.843	10183	33.025	33.275
33.392	0.849	7753	33.275	33.758
36.442	0.925	44541	36.297	36.725
38.208	0.971	14365	38.033	38.492
39.333	1.000	20457	38.658	39.458

TOTAL

0.000

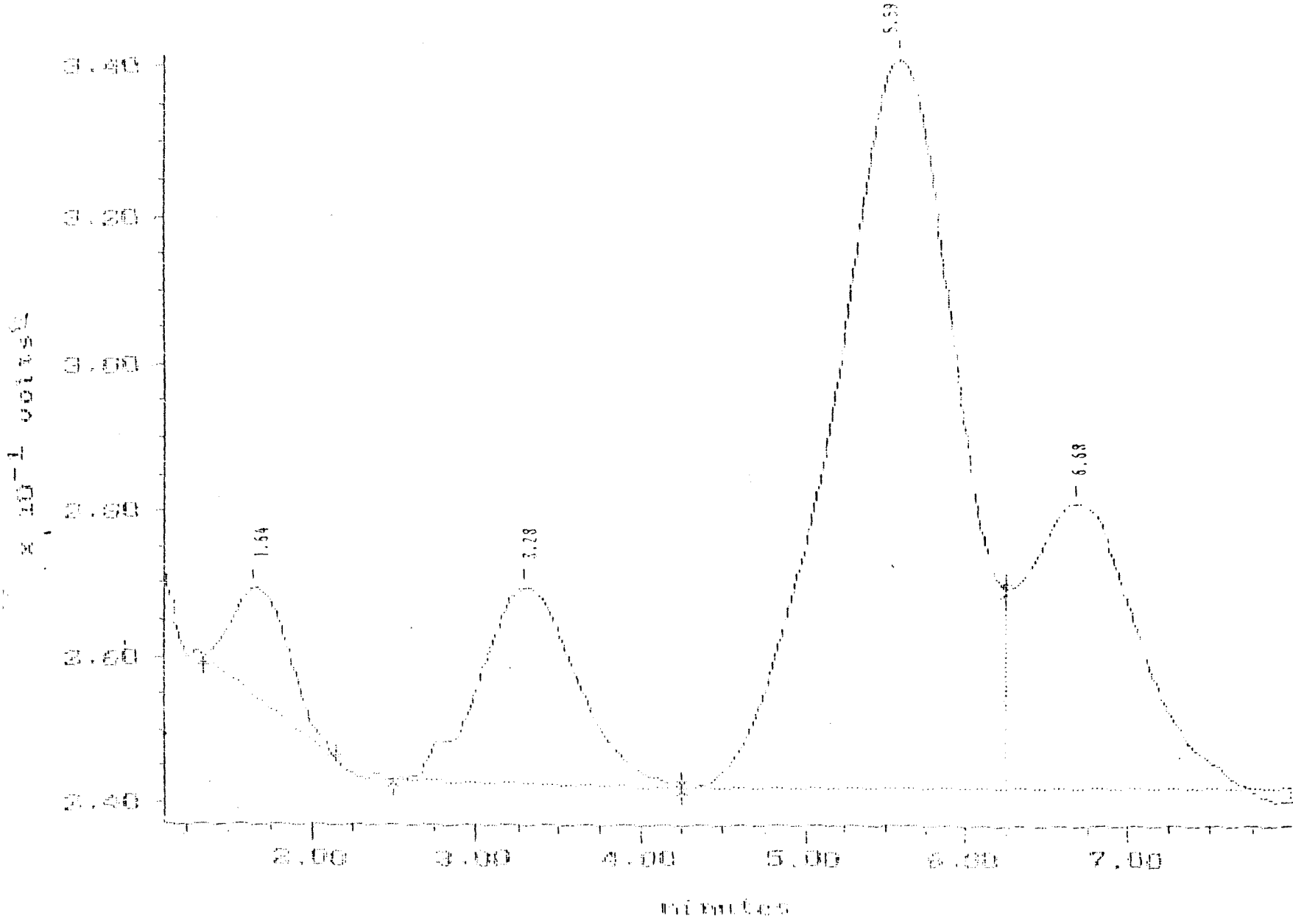
3152293

$1 \text{ ml} \Rightarrow 10 \text{ ml} \Rightarrow 7/10 \times$

$\frac{NDC 5.0 \text{ mg}}{e}$

2.2038

Sample: 95010
Channel: F00 1
Acquired: 17-JUL-95 17:28
Dilution: 1 : 10.000
Method: C:\MAX\DATA7\HR07-17
Operator: SXR
Filename: E1959797



000038

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:27:31

SAMPLE: 35832

#15 in Method: SW 846 - 8150 Herbicides
 Acquired: 17-JUL-1995 17:28
 Rate: 7.0 points/sec
 Duration: 8.000 minutes
 Operator: SMR

Type: UNKNOWN
 Instrument: Instrument 2
 Filename: E1950392
 Index: Disk
 Dilution: 10.000

DETECTOR: F001

FL#	Component Name	Original Conc (US/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.642	0.246	357667		1.342	2.142
			3.233	0.492	1100231		2.492	4.250
			5.597	0.833	5365372		4.250	6.250
			5.675	1.000	1825880		6.250	7.992
TOTAL		0.000			8650151			



DATE Jul 27, 1995

LAB SAMPLE ID : 86833

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86831
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2384
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/06/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<25	0.2
1,1-Dichloroethene	ND<25	0.7
Methyl Ethyl Ketone	311	200.0
Chloroform	ND<25	6.0
Carbon Tetrachloride	ND<25	0.5
Benzene	ND<25	0.5
1,2-Dichloroethane	ND<25	0.5
Trichloroethene	ND<25	0.5
Tetrachloroethene	ND<25	0.7
Chlorobenzene	ND<25	100.0
1,4-Dichlorobenzene	ND<25	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	100	
Toluene-d8	91	
Bromofluorobenzene	117	

LOWER DETECTION LEVELS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC/D

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

2.2041

Data File : C:\HPCHEM\1\DATA\C2384.D
 Acq Time : 6 Jul 95 3:51 pm
 Sample : 7 86833 1:5000 zhe aec
 Misc : g3
 Quant Time: Jul 7 8:16 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.77	168	2406537	50.00	ug/l	0.02
32) 1,4-Difluorobenzene	10.54	114	2224595	50.00	ug/l	0.01
39) Chlorobenzene-d5	15.83	117	1825835	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.40	152	971210	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.46	113	1422009	50.22	ug/l	100.43%
41) Toluene-d8	13.36	98	1832660	45.62	ug/l	91.24%
59) 4-Bromofluorobenzene	17.72	95	1561588	58.72	ug/l	117.45%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.79	43	47492	38.15	ug/l	92
15) Methylene Chloride	4.38	84	199920	18.04	ug/l	98
23) MEK(2-Butanone)	7.21	72	35029	62.16	ug/l	86
28) Carbon Tetrachloride	8.77	117	204440	6.70	ug/l #	10
29) 1,1-Dichloroethene	8.77	75	174060	7.19	ug/l #	56
40) MIBK(4-Methyl-2-pentanone)	13.26	43	279828	42.06	ug/l #	94
42) Toluene	13.48	92	1155349	45.72	ug/l	98
44) 1,1,1-Trichloroethane	14.04	97	95127	7.97	ug/l #	19
46) 2-Hexanone	11.72	10	101911	21.08	ug/l #	1
52) Ethylbenzene	16.04	106	39378	2.77	ug/l	90
53) p-Xylene/m-Xylene	16.23	106	206715	11.29	ug/l	99
54) o-Xylene	16.87	106	80913	4.51	ug/l	97
61) 1,1,2,2-Tetrachloroethane	12.00	80	51710	1.00	ug/l #	21
62) 1,2,2-Trichloropropane	17.72	75	847551	51.15	ug/l #	17
63) trans-1,4-Dichloro-2-butene	13.91	53	370350	119.23	ug/l #	1
67) 1,3,5-Trimethylbenzene	18.37	105	159471	4.46	ug/l	100
69) 1,2,4-Trimethylbenzene	18.92	105	373808	10.06	ug/l	98
74) 1,2,3-Trimethylbenzene	19.48	105	145853	4.40	ug/l	91
75) Benzyl Chloride	19.79	91	71010	1.00	ug/l #	12

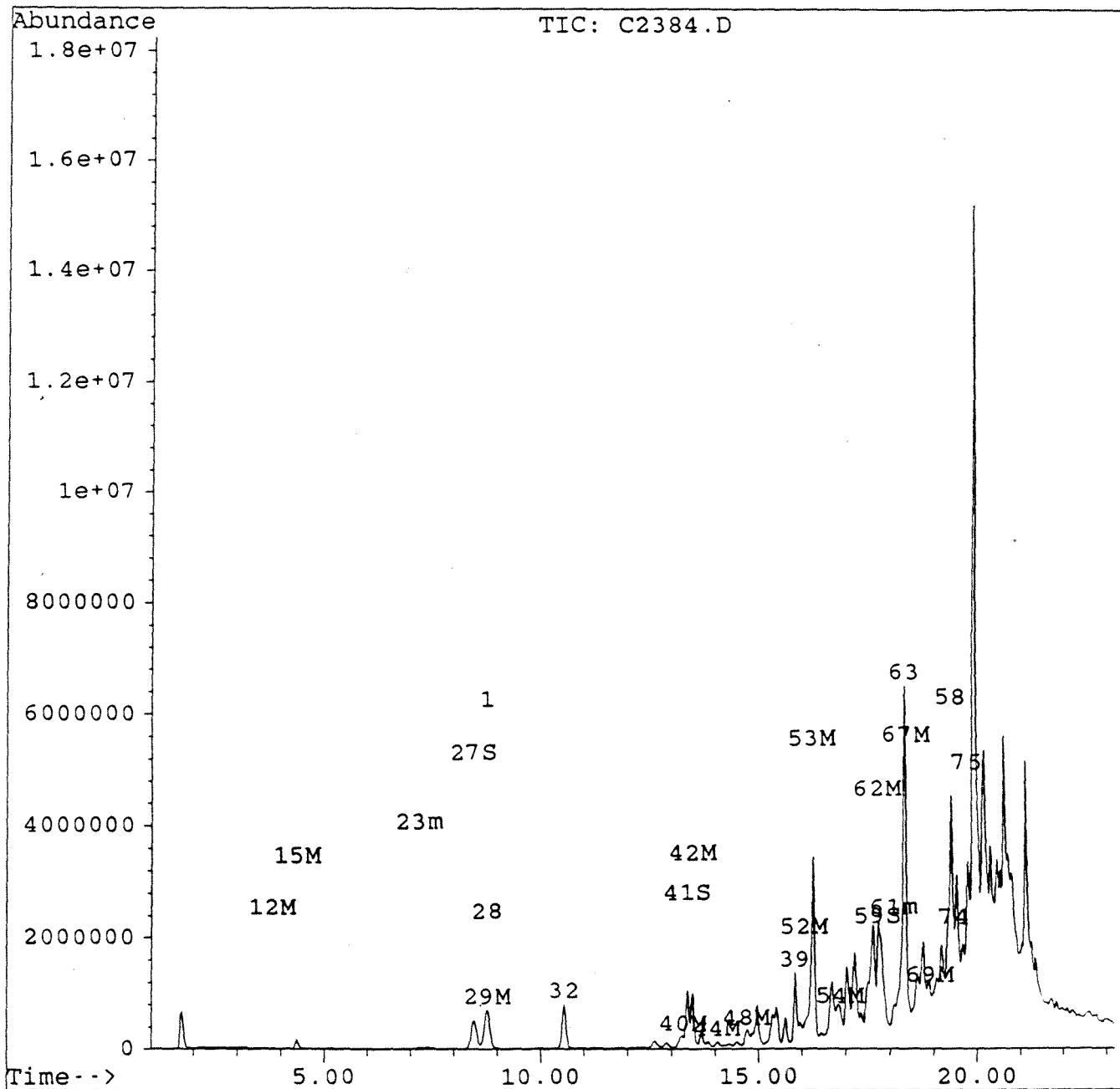
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2384.D
Acq Time : 6 Jul 95 3:51 pm
Sample : 7 86833 1:5000 zhe aec
Misc : g3
Quant Time: Jul 7 8:16 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86834

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G4 DRUMS 20,34
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/06/95	EPA 1110	94-083-88	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	IGNITABLE		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	39	mg/L	07/11/95	SW 846	94-221-16	BJH

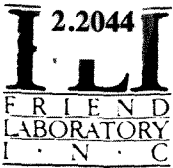
For questions regarding this report, please call Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86834

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G4 DRUMS 20,34
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 24, 1995

LAB SAMPLE ID : 86835

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D005	Barium	0.164	mg/L	100.0	07/21/95	EPA 1311	95-094-06
D006	Cadmium	0.384	mg/L	1.0	07/21/95	EPA 1311	95-094-06
D007	Chromium	5.23	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D008	Lead	0.706	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D009	Mercury	ND<0.01	mg/L	0.2	07/21/95	EPA 1311	95-094-06
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 1311	95-094-06
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 1311	95-094-06

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



DATE Jul 19, 1995

LAB SAMPLE ID : 87011

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	ND<0.160	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	0.122	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	1.43	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	0.551	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	ND<0.060	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

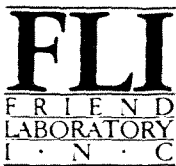
CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

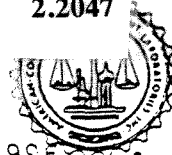
Approved by:
 QUALITY ASSURANCE

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2.2047

ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 19, 1995

LAB SAMPLE ID 87012

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	0.181	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	1.37	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	19.5	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	1.29	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	ND<0.060	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

cc :

QC

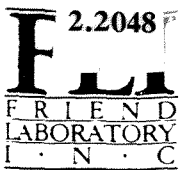
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000047



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86835

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 93-124-115
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/19/95
Compounds Detected	Results	Date Extracted :
-----	-----	-----
Pyridine	ND<58.9	5.0
o-Cresol	ND<58.9	200.0
p-Cresol/m-Cresol	ND<58.9	200.0
Hexachloroethane	ND<58.9	3.0
Nitrobenzene	ND<58.9	2.0
Hexachlorobutadiene	ND<58.9	0.5
2,4,6-Trichlorophenol	ND<58.9	2.0
2,4,5-Trichlorophenol	ND<58.9	400.0
2,4-Dinitrotoluene	ND<58.9	0.13
Hexachlorobenzene	ND<58.9	0.13
Pentachlorophenol	ND<232	100.0
TCLP 8080 Pesticides *	Analyst : JAK	Notebook Reference : 93-124-117
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/21/95
Compounds Detected	Results	Date Extracted :
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008
Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50	0.5
TCLP Herbicides *	Analyst : JAK	Notebook Reference : 93-124-117
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/21/95
Compounds Detected	Results	Date Extracted :
-----	-----	-----

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Sudrey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86835

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



DATE Jul 27, 1995

LAB SAMPLE ID : 87011

 Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1781
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Pyridine	ND<6.8	5.0
o-Cresol	ND<6.8	200.0
p-Cresol/m-Cresol	ND<6.8	200.0
Hexachloroethane	ND<6.8	3.0
Nitrobenzene	ND<6.8	2.0
Hexachlorobutadiene	ND<6.8	0.5
2,4,6-Trichlorophenol	ND<6.8	2.0
2,4,5-Trichlorophenol	ND<6.8	400.0
2,4-Dinitrotoluene	ND<6.8	0.13
Hexachlorobenzene	ND<6.8	0.13
Pentachlorophenol	ND<27	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	
TCLP 8080 Pesticides *	Analyst : SMB	Notebook Reference : 95-012-1567
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/14/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<0.05	0.4
Heptachlor	ND<0.05	0.008
Heptachlor Epoxide	ND<0.05	0.008
* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.		
** SURROGATES WERE DILUTED OUT.		

For questions regarding this report, please call and ask for Customer Services.

CC :

 QC D NY 10252 PA 68180 NJ 73168 EPA NY 033

 Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 87011

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<0.05	0.02
Methoxychlor	ND<0.05	10.0
Chlordane	ND<0.05	0.03
Toxaphene	ND<0.5	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	**	
Decachlorobiphenyl	**	
TCLP Herbicides	Analyst : SMB	Notebook Reference : 94-171-403
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<0.12	10.0
Silvex (2,4,5-TP)	ND<0.02	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000051

Data File : C:\HPCHEM\1\DATA\A1781.D
 Acq Time : 17 Jul 95 4:40 pm
 Sample : 87011,10X
 Misc : TCLP8270 7/7 AEC
 Quant Time: Jul 17 17:28 1995

Operator: DIANE BOZE
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.26	152	2129050	40.00	UG/ML	-0.21
19) NAPHTHALENE-D8	15.51	136	7300290	40.00	UG/ML	-0.21
34) ACENAPHTHENE-D10	20.14	164	3536522	40.00	UG/ML	-0.12
54) PHENANTHRENE-D10	23.92	188	4140524	40.00	UG/ML	-0.21
67) CHRYSENE-D12	30.73	240	2122531	40.00	UG/ML	-0.27
76) PERYLENE-D12	34.67	264	1517158	40.00	UG/ML	-0.25

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	9.28	112	527027	7.34	UG/ML	3.67%
6) PHENOL-D6	11.72	99	776116	9.25	UG/ML	4.63%
20) NITROBENZENE-D5	13.72	82	464217	6.11	UG/ML	6.11%
38) 2-FLUOROBIPHENYL	18.36	172	998436	9.69	UG/ML	9.69%
53) 2,4,6-TRIBROMOPHENOL	22.19	330	234632	21.02	UG/ML	10.51%
70) TERPHENYL-D14	28.05	244	640456	10.34	UG/ML	10.34%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) N-NITROSODIMETHYLAMINE	5.67	74	58503	1.30	UG/ML#	9
7) PHENOL	11.74	94	4867875	59.88	UG/ML#	94
12) 1,2-DICHLOROBENZENE	12.67	146	162918	2.13	UG/ML	94
13) 2-METHYLPHENOL	13.18	107	9923166	170.46	UG/ML#	85
16) N-NITROSODI-N-PROPYLAMINE	13.74	70	161067	2.97	UG/ML#	39
17) HEXACHLOROETHANE	13.78	117	73010	2.34	UG/ML#	19
18) 3-METHYLPHENOL/4-METHYLPHE	13.62	107	17069300	227.20	UG/ML#	85
21) NITROBENZENE	13.62	77	5834769	75.47	UG/ML#	42
22) ISOPHORONE	14.58	82	623159	4.45	UG/ML#	72
24) 2,4-DIMETHYLPHENOL	15.26	122	2331498	40.24	UG/ML#	25
28) BENZOIC ACID	15.26	122	2585280	120.36	UG/ML#	1
29) NAPHTHALENE	15.90	128	422134	2.13	UG/ML#	100
30) 4-CHLOROANILINE	15.90	127	4838289	63.76	UG/ML#	43
33) 2-METHYLNAPHTHALENE	17.53	142	491663	3.80	UG/ML#	1
42) 2,6-DINITROTOLUENE	20.14	165	448093	15.73	UG/ML#	23
47) 4-NITROPHENOL	20.98	65	703739	44.74	UG/ML#	1
57) N-NITROSODIPHENYLAMINE	21.61	169	55931	1.09	UG/ML#	1

~~350 ml~~ 350 ml → 1 ml, 10x

$$\left(\frac{5 \mu\text{g}}{\text{ml}} \right) \left(\frac{1000 \text{ ml}}{1} \right) \left(\frac{1 \text{ ml}}{350 \text{ ml}} \right) \left(\frac{1 \text{ ml}}{1 \text{ ml}} \right) \left(\frac{1 \text{ mg}}{1000 \mu\text{g}} \right)$$

$$= 6.81 \frac{\text{mg}}{\text{L}}$$

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

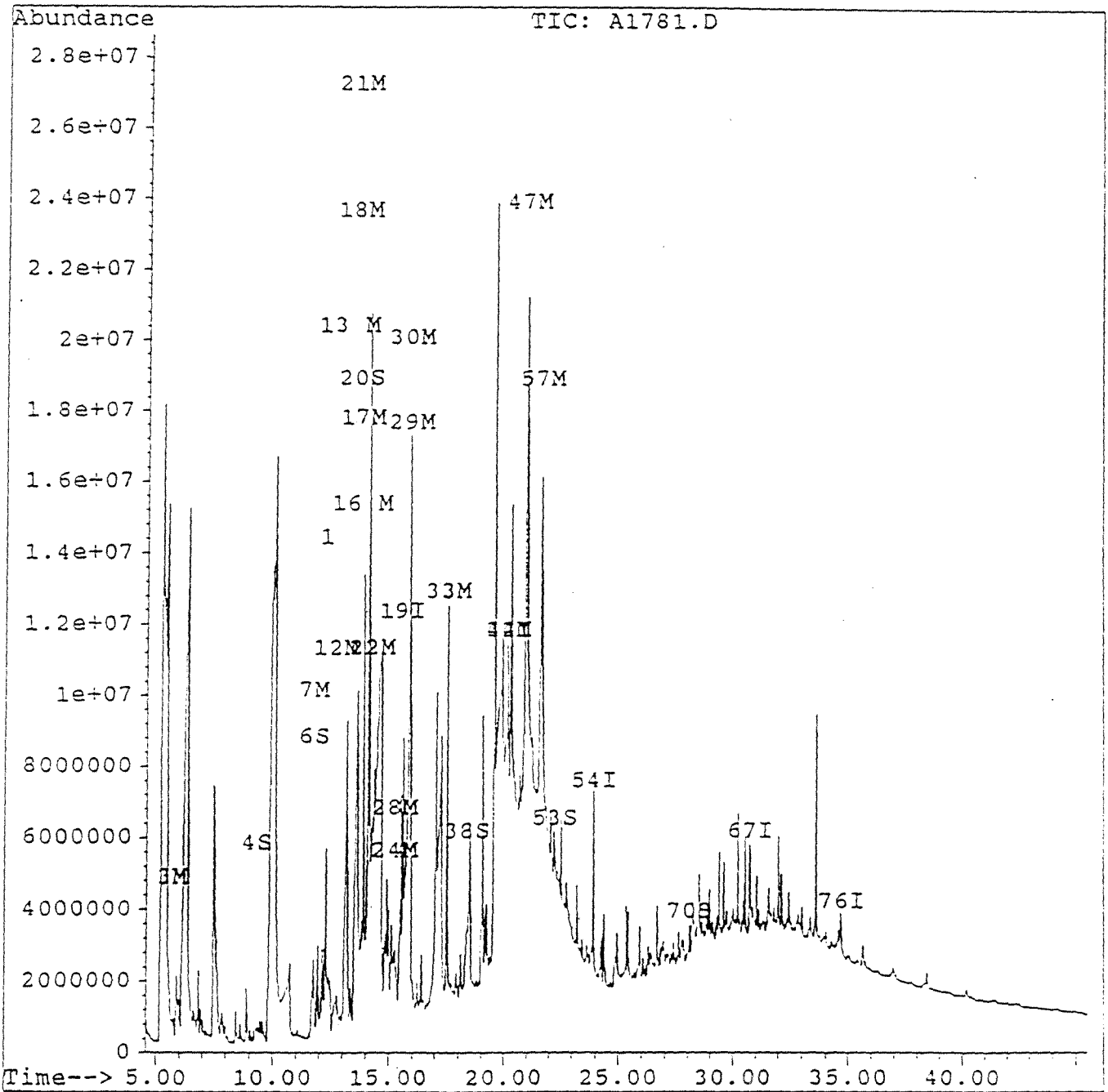
Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1781.D
Acq Time : 17 Jul 95 4:40 pm
Sample : 87011,10X
Misc : TCLP8270 7/7 AEC
Quant Time: Jul 17 17:28 1995

2.2053

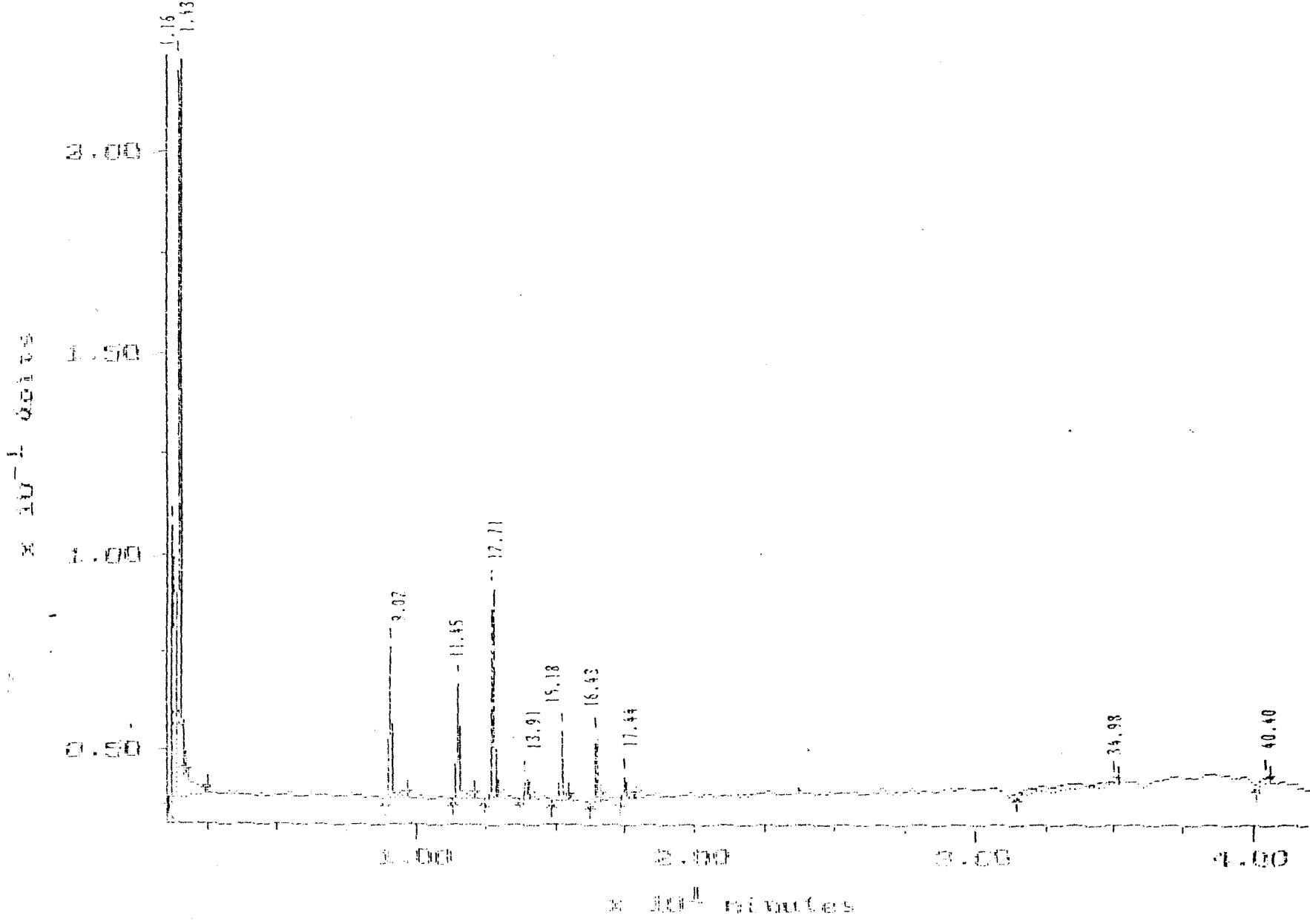
Operator: DIANE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



2.2054

87011 1/100 Channel: F00 3 Filename: 2051567
Acquired: 14-JUL-95 1:59 Method: C:\MAX\DATA3\HP70713 Operator: vzf
Dilution: 1 : 100.000



000054

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:02:51

37011 1/100

#25 in Method: PEST PROC METH
 Acquired: 14-JUL-1995 1:59
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KXF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951567
 Index: Disk
 Dilution: 100.000

DR: 600 3

Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
		1.158	0.029	497555		1.067	1.308
		1.433	0.035	1375576		1.308	2.492
		1.617	0.040	10551		1.575	1.700
		9.917	0.223	223483		8.858	9.683
		11.454	0.283	184780		11.293	12.092
		12.708	0.315	306720		12.433	12.958
		13.908	0.344	22200		13.708	14.083
		15.175	0.376	100927		14.900	15.425
		16.433	0.407	90541		16.232	16.592
		17.442	0.432	35418		17.300	17.892
		34.983	0.855	177213		31.508	35.125
		40.400	1.000	19884		40.033	40.500
	0.000			3054349			

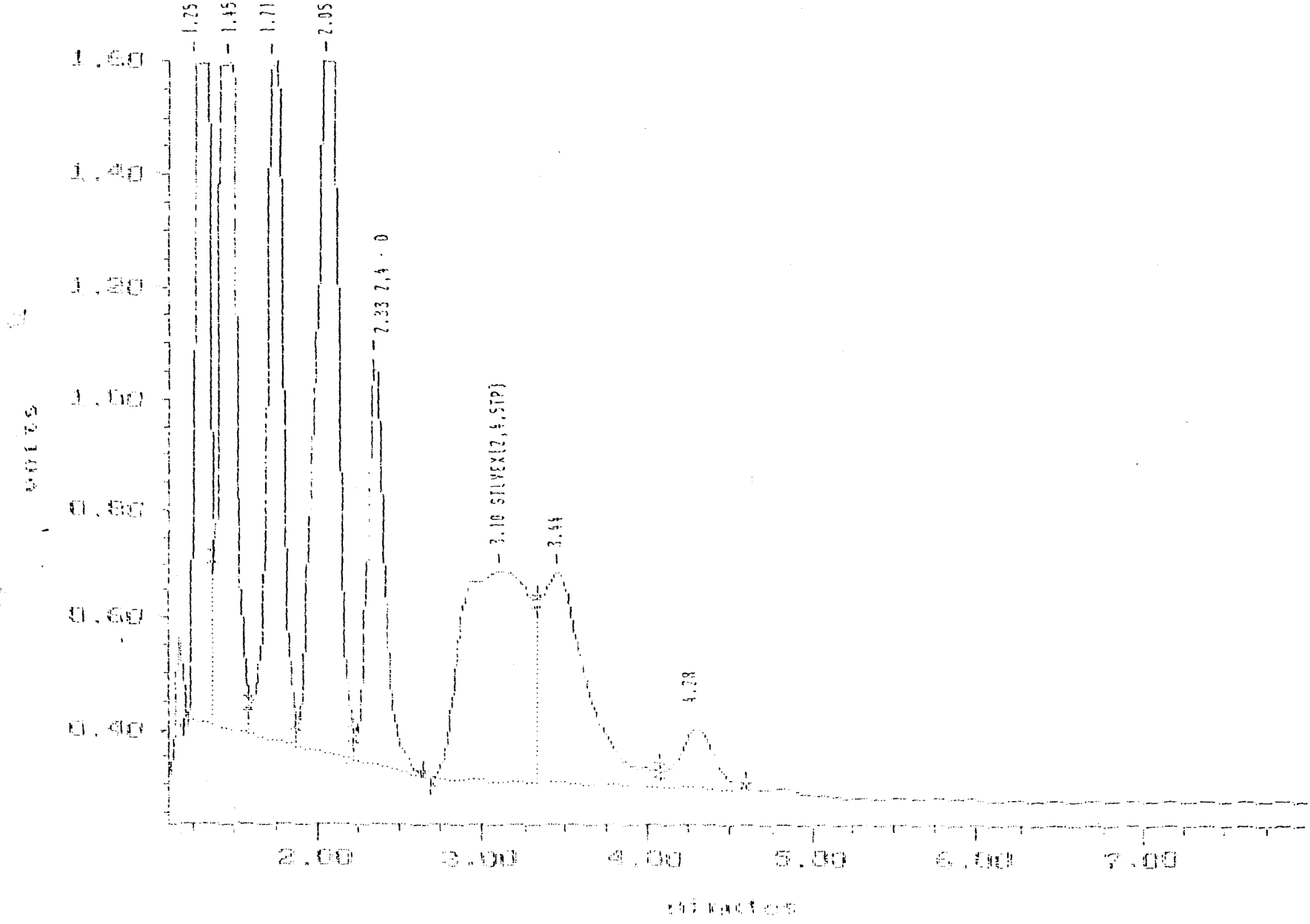
$$\frac{10 \text{ ml}}{100 \text{ ml}} \times 0.005 \frac{\text{mg}}{\text{ml}} \times 100$$

$$\text{NOC } 0.05 \frac{\text{mg}}{\text{L}}$$

2.2056

87011 8/1/20

Sample: ~~4444~~ 1:100 Channel: ECO 1 File name: E19504c
Acquired: 17-JUL-95 19:18 Method: C:\MAX\DATA2\HR87-17 Operator: SMP
Dilution: 1 : 100.000



000056

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:34:36

SAMPLE: ~~87011~~ 87011 1:100

#27 in Method: SW 846 - R150 Herbicides
Acquired: 17-JUL-1995 19:18
Rate: 2.0 points/sec
Duration: 8.000 minutes
Operator: SMR

Type: UNKN
Instrument: Instrument 2
Filename: E1950403
Index: Disk
Dilution: 100.000

DETECTOR: ECD 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.250	0.292	7883544		1.192	1.358
			1.450	0.339	9090462		1.358	1.533
			1.708	0.399	8479991		1.583	1.975
			2.050	0.479	12585199		1.975	2.225
2	2,4 - D	102294.18311	2.333	0.545	5379034		2.225	2.542
3	SILVEX(2,4,5TP)	46695.30611	3.100	0.724	10991642		2.683	3.325
			3.442	0.804	7226277		3.325	4.067
			4.283	1.000	1523989		4.067	4.600
TOTAL		148989.49011			63156788			

!! Result calculation based on peak response more than 10% outside of calibration range.



DATE Jul 27, 1995

LAB SAMPLE ID : 87012

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1717
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<250	5.0
o-Cresol	ND<250	200.0
p-Cresol/m-Cresol	ND<250	200.0
Hexachloroethane	ND<250	3.0
Nitrobenzene	ND<250	2.0
Hexachlorobutadiene	ND<250	0.5
2,4,6-Trichlorophenol	ND<250	2.0
2,4,5-Trichlorophenol	ND<250	400.0
2,4-Dinitrotoluene	ND<250	0.13
Hexachlorobenzene	ND<250	0.13
Pentachlorophenol	ND<1000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1558
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008
**SURROGATE NOT ADDED PER METHOD 3580, HAZARDOUS WASTE DILUTION.		
*** SURROGATES NOT ADDED.		

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 87012

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-397
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Data File : C:\HPCHEM\1\DATA\A1787.D
Acq Time : 17 Jul 95 10:44 pm
Sample : 87012
Misc : TCLP8270 7/6AEC
Quant Time: Jul 17 23:32 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.25	152	1873926	40.00	UG/ML	-0.22
19) NAPHTHALENE-D8	15.49	136	5209036	40.00	UG/ML	-0.22
34) ACENAPHTHENE-D10	20.03	164	3370074	40.00	UG/ML	-0.23
54) PHENANTHRENE-D10	23.88	188	3964569	40.00	UG/ML	-0.25
67) CHRYSENE-D12	30.72	240	1404926	40.00	UG/ML	-0.28
76) PERYLENE-D12	34.65	264	738843	40.00	UG/ML	-0.27

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	9.05	112	102115	1.62	UG/ML	0.81%
6) PHENOL-D6	11.92	99	15142	0.21	UG/ML	0.10%
20) NITROBENZENE-D5	13.87	82	294614	5.43	UG/ML	5.43%
38) 2-FLUOROBIPHENYL	18.39	172	1986	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	28.05	244	766	0.02	UG/ML	0.02%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,2-DICHLOROBENZENE	12.66	146	162336	2.42	UG/ML#	75
16) N-NITROSODI-N-PROPYLAMINE	13.73	70	185732	3.90	UG/ML#	39
22) ISOPHORONE	14.57	82	822271	8.22	UG/ML#	53
42) 2,6-DINITROTOLUENE	20.03	165	411591	15.16	UG/ML#	25

100 ml, 1 ml → some

has
dil'n
wast →
dil'n
yes
per
Jama

$$\text{det lim} = \left(\frac{5 \text{ ug}}{\text{ml}}\right) \left(\frac{1 \text{ ms}}{1000 \text{ ug}}\right) \left(\frac{100 \text{ ml}}{1 \text{ l}}\right) \left(\frac{50 \text{ ml}}{1 \text{ ml}}\right)$$

$$= 250 \frac{\text{mg}}{\text{ml}}$$

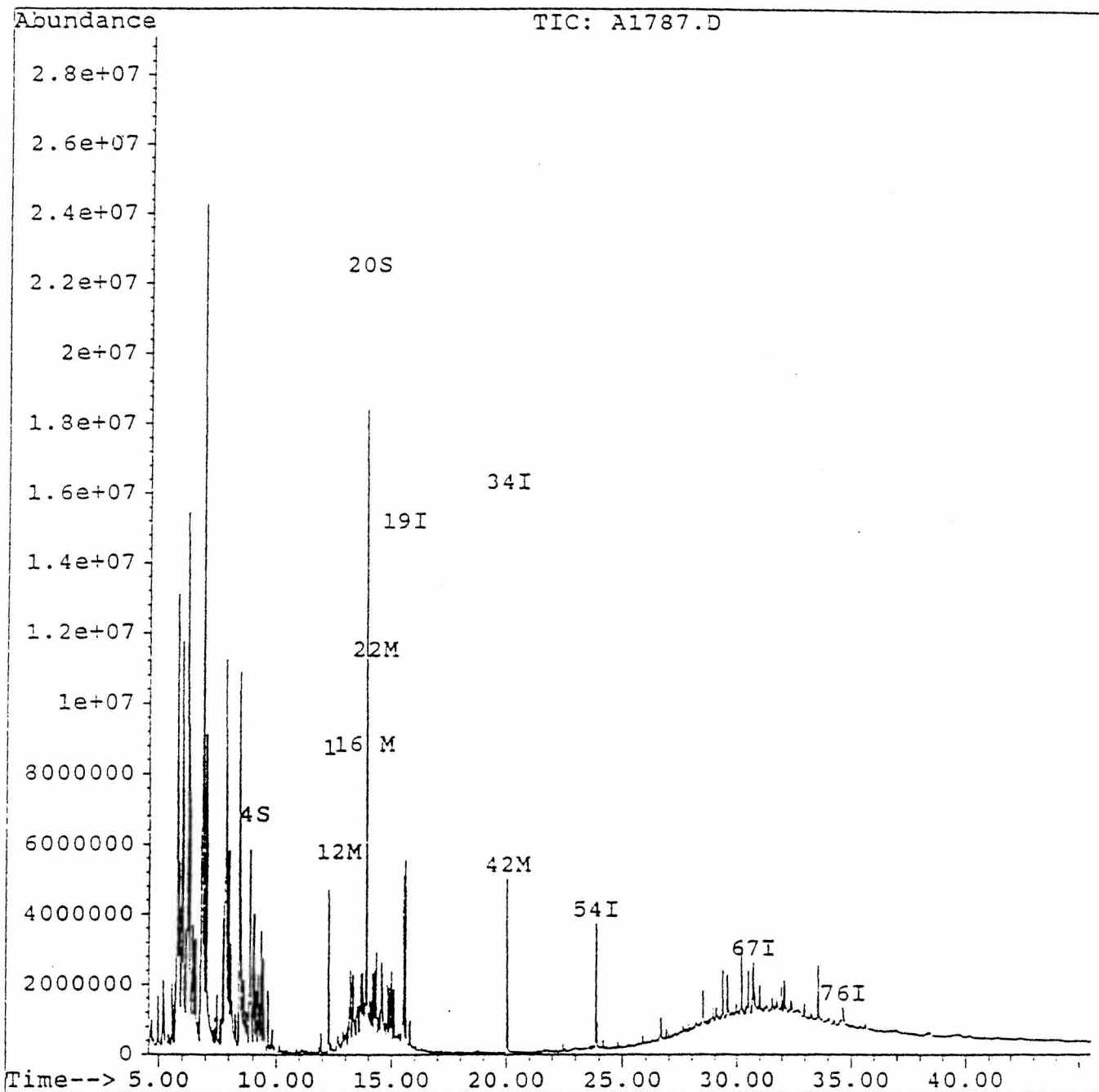
Quantitation Report

2.2061

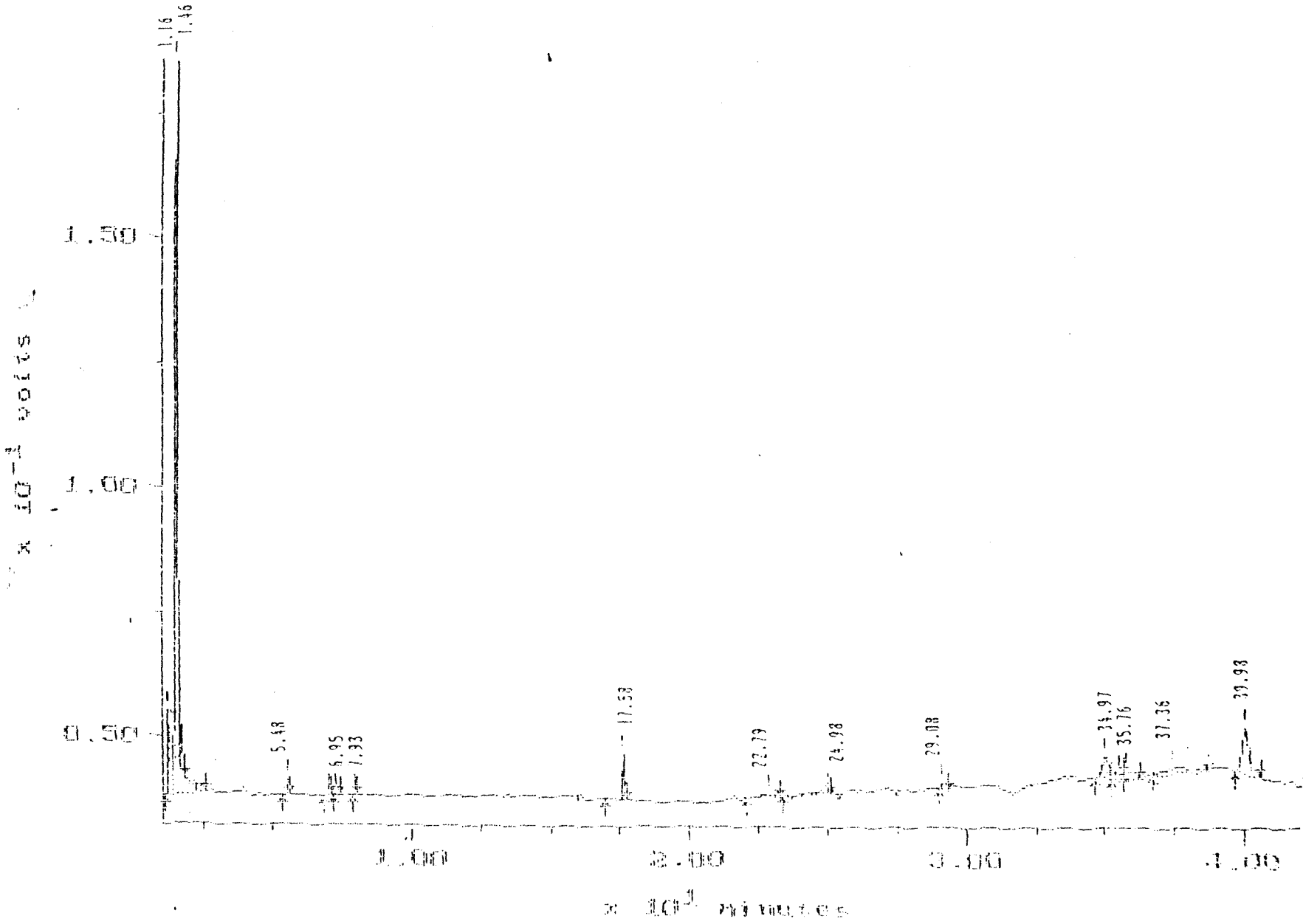
Data File : C:\HPCHEM\1\DATA\A1787.D
Acq Time : 17 Jul 95 10:44 pm
Sample : 87012
Misc : TCLP8270 7/6AEC
Quant Time: Jul 17 23:32 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



Sample: 87017 1/10 Channel: ECD 3 Filename: E395155A
Acquired: 13-JUL-95 19:18 Method: C:\MAX\DATA3\HP20713 Operator: KKF
Dilution: 1 : 10.000



MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA, 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:00:11

SAMPLE: 87012 1/10

#15 in Method: PEST PROC METH
 Acquired: 13-JUL-1995 19:12
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951558
 Index: Disk
 Dilution: 10.000

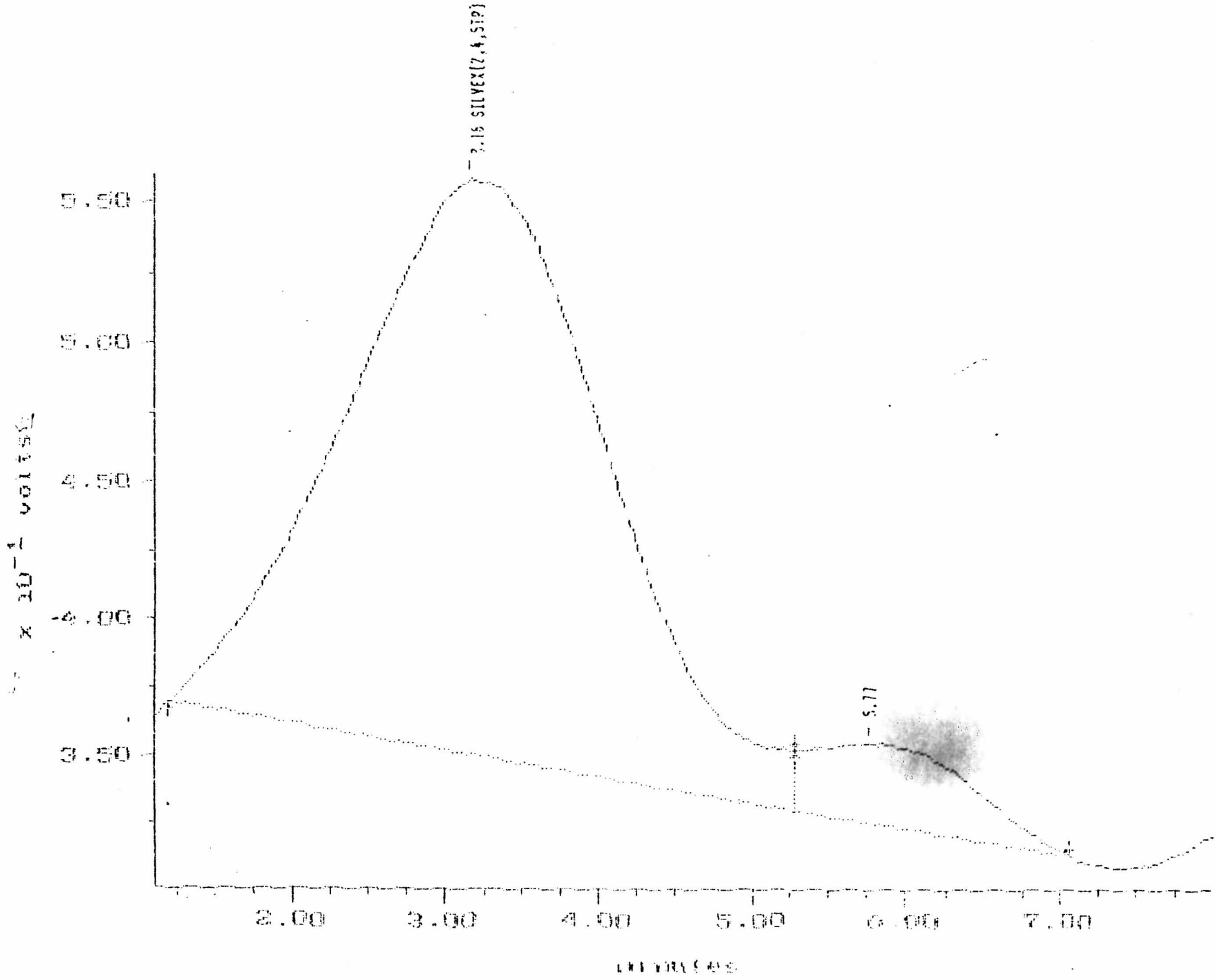
DETECTOR: ECO 3

FL#	Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group 1	Peak Start (minutes)	Peak End (minutes)
			1.158	0.029	117461		1.083	1.325
			1.458	0.036	1139329		1.325	2.525
			1.642	0.041	72348		1.600	1.750
			5.475	0.137	12871		5.325	5.592
			6.950	0.174	912		6.808	7.383
			7.267	0.182	672		7.158	7.425
			7.933	0.193	1187		7.817	8.042
			17.575	0.440	48830		16.942	17.725
			22.792	0.570	28202		22.000	23.242
			24.975	0.625	23564		23.383	25.058
			29.075	0.727	13090		28.958	29.350
			34.967	0.875	69018		34.650	35.250
			35.475	0.887	25818		35.250	35.667
			35.758	0.895	33701		35.667	35.725
			37.358	0.935	70770		36.658	38.658
			39.975	1.000	165605		39.642	40.558
TOTAL		0.000			1173377			

1 ml \Rightarrow 100 μ l \Rightarrow 10 μ l

100 < 5 $\frac{mg}{l}$

Sample: R7017 Channel: ECO 1 Filename: F1950337
Acquired: 17-JUL-95 18:18 Method: C:\MAX\DATA7\HR87-17 Operator: SM8
Duration: 1 : 10.000



(c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:26:08

SAMPLE: 8701Z

#21 in Method: SW 846 - 8150 Herbicides

Acquired: 17-JUL-1995 18:18

Rate: 2.0 points/sec

Duration: 8.000 minutes

Operator: SMR

Type: UNKN

Instrument: Instrument 2

Filename: E1950397

Index: Disk

Dilution: 10.000

DETECTOR: ECD 1

PKT	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
3	STLVEX(2.4.STP)	7897.582!!	3.158	0.548	24710356		1.183	5.275
			5.767	1.000	2114630		5.275	7.050
TOTAL		7897.582!!			26824986			

! Result calculation based on peak response more than 10% outside of calibration range.



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86836

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	by CLIENT

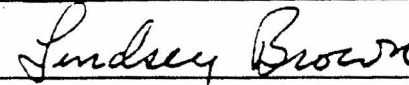
Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 93-124-105
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/11/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<7.2	0.2
1,1-Dichloroethene	ND<7.2	0.7
Methyl Ethyl Ketone	47	200.0
Chloroform	ND<7.2	6.0
Carbon Tetrachloride	ND<7.2	0.5
Benzene	ND<7.2	0.5
1,2-Dichloroethane	ND<7.2	0.5
Trichloroethene	ND<7.2	0.5
Tetrachloroethene	ND<7.2	0.7
Chlorobenzene	ND<7.2	100.0
1,4-Dichlorobenzene	ND<7.2	7.5

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC  NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: 
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 87013

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	ZHE EXTRACT AQUEOUS LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2405
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<2.5	0.2
1,1-Dichloroethene	ND<2.5	0.7
Methyl Ethyl Ketone	60	200.0
Chloroform	ND<2.5	6.0
Carbon Tetrachloride	ND<2.5	0.5
Benzene	ND<2.5	0.5
1,2-Dichloroethane	ND<2.5	0.5
Trichloroethene	ND<2.5	0.5
Tetrachloroethene	ND<2.5	0.7
Chlorobenzene	ND<2.5	100.0
1,4-Dichlorobenzene	ND<2.5	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	98	
Toluene-d8	95	
Bromofluorobenzene	90	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATION OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lundsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Data File : C:\HPCHEM\1\DATA\C2405.D
 Acq Time : 7 Jul 95 4:41 pm
 Sample : 13 87013 1:500 zhe aec
 Misc : 86836 aqueous
 Quant Time: Jul 10 8:06 1995

Operator: C. Werd
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.77	168	2851108	50.00	ug/l	0.02
32) 1,4-Difluorobenzene	10.53	114	2621152	50.00	ug/l	0.00
39) Chlorobenzene-d5	15.83	117	2024477	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.39	152	1296163	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.46	113	1652784	49.27	ug/l	98.53%
41) Toluene-d8	13.35	98	2121250	47.62	ug/l	95.25%
59) 4-Bromofluorobenzene	17.71	95	1601973	45.14	ug/l	90.28%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.75	43	67524	45.79	ug/l	96
23) MEK(2-Butanone)	7.15	72	79803	119.53	ug/l	81
28) Carbon Tetrachloride	8.75	117	299910	6.55	ug/l	10
39) 1,1-Dichloroethene	8.75	75	100300	6.05	ug/l	57
40) MEK(4-methyl-2-pentanone)	13.81	15	271111	257.03	ug/l	61
42) Toluene	13.47	92	492041	17.56	ug/l	98
43) 2-Hexanone	14.70	15	112550	50.19	ug/l	51
52) Ethylbenzene	16.02	106	103034	6.54	ug/l	91
53) p-Xylene/m-Xylene	16.23	106	490902	24.19	ug/l	97
54) o-Xylene	16.85	106	71635	3.60	ug/l	92
58) 1,2,3-Trichloropropane	17.71	73	799330	19.92	ug/l	15
70) 1,2-Dichlorobenzene	18.89	114	109055	3.33	ug/l	37

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

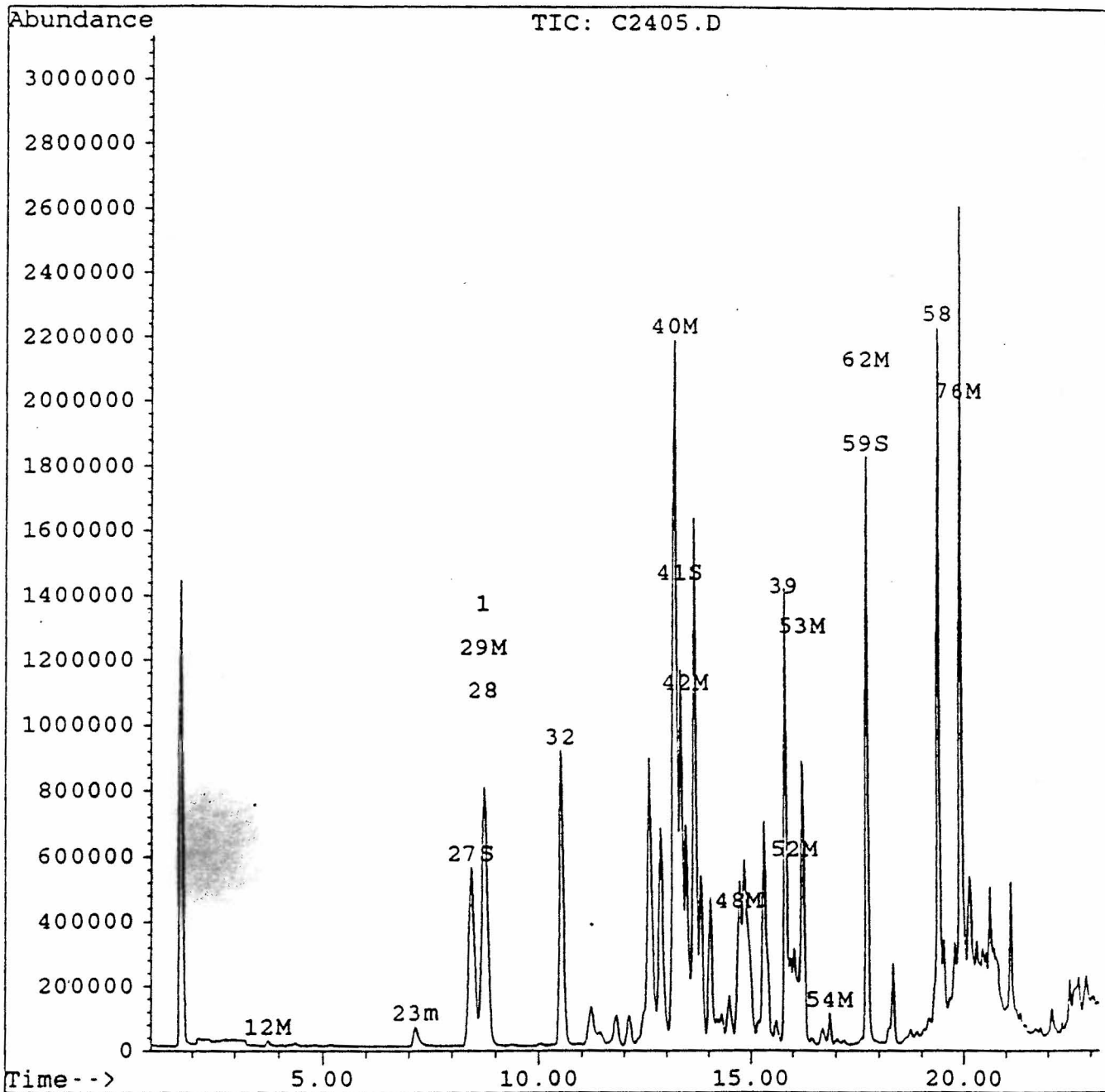
Quantitation Report

2.2069

Data File : C:\HPCHEM\1\DATA\C2405.D
Acq Time : 7 Jul 95 4:41 pm
Sample : 13 87013 1:500 zhe aec
Misc : 86836 aqueous
Quant Time: Jul 10 8:06 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 87014

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86834
DESCRIPTION	ZHE EXTRACT ORGANIC LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis

Method : SW846/5030/8240

Compounds Detected

Vinyl Chloride

1,1-Dichloroethene

Methyl Ethyl Ketone

Chloroform

Carbon Tetrachloride

Benzene

1,2-Dichloroethane

Trichloroethene

Tetrachloroethene

Chlorobenzene

1,4-Dichlorobenzene

Surrogate Recovery (%)

Dibromofluoromethane

Toluene-d8

Bromofluorobenzene

Analyst : CPW

Units : MG/L

Results

ND<25

ND<25

ND<250

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

82

112

105

Notebook Reference : 95-106-2396

Date Analyzed : 07/06/95

0.2

0.7

200.0

6.0

0.5

0.5

0.5

0.5

0.7


100.0

7.5

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATION OF
NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC  NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: 

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

2.2071

Data File : C:\HPCHEM\1\DATA\C2396.D
 Acq Time : 6 Jul 95 9:53 pm
 Sample : 3 87014 1:1000 zhe aec
 Misc : 86836_organic
 Quant Time: Jul 7 8:42 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.81	168	3145277	50.00	ug/l	0.06
32) 1,4-Difluorobenzene	10.56	114	2753624	50.00	ug/l	0.03
39) Chlorobenzene-d5	15.84	117	1869055	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.39	152	956578	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.50	113	1509640	40.79	ug/l	81.58%
41) Toluene-d8	13.37	98	2306471	56.09	ug/l	112.18%
59) 4-Bromofluorobenzene	17.72	95	1376375	52.55	ug/l	105.10%

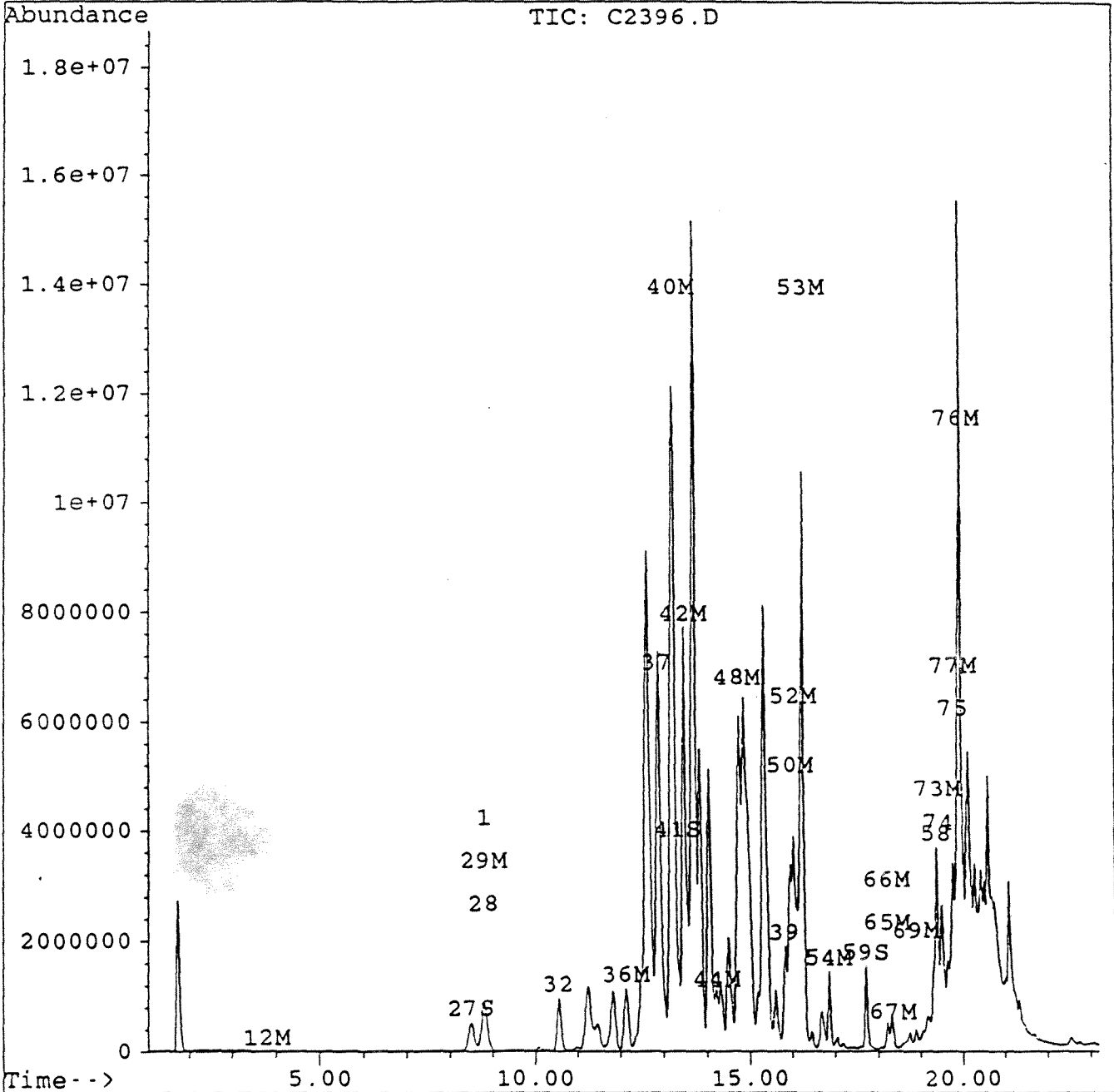
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) Acetone(2-Propanone)	5.79	42	6200	3.00	ug/l	18
20) Carbon Tetrachloride	6.00	117	257768	3.99	ug/l	19
33) 1,1-Dichloroethene	6.00	79	214544	7.05	ug/l	39
36) Bromodichloromethane	12.19	83	120004	3.01	ug/l	43
37) 2-Chloroethylvinyl ether	12.00	62	10055	2.03	ug/l	4
38) MIBK(1-Methyl-2-pentanone)	13.00	42	2155020	162.88	ug/l	19
42) Toluene	13.48	92	6520795	252.09	ug/l	95
44) 1,1,2-Trichloroethane	14.29	37	37179	7.00	ug/l	16
48) o-Xylene	14.72	19	1610070	300.00	ug/l	9
50) Chlorobenzene	15.98	112	309200	10.00	ug/l	23
52) Ethylbenzene	16.03	106	1363316	93.78	ug/l	95
53) p-Xylene/m-Xylene	16.24	106	6151056	328.32	ug/l	97
54) o-Xylene	16.86	106	1008713	54.88	ug/l	95
65) 2-Chlorotoluene	18.22	91	437605	11.01	ug/l	91
66) 1-Chlorobenzene	18.22	91	150919	10.01	ug/l	25
67) 1,3,5-Trimethylbenzene	18.36	105	135431	3.84	ug/l	94
69) 1,2,4-Trimethylbenzene	18.90	105	361909	9.89	ug/l	97
73) 1,1-Dichlorobenzene	19.42	119	61011	2.85	ug/l	1
74) 1,2,3-Trimethylbenzene	19.46	105	90549	2.77	ug/l	94
75) Benzyl chloride	19.00	91	100100	7.56	ug/l	16
76) 1,2-Dichlorobenzene	18.07	146	117601	10.12	ug/l	1
77) n-Butylbenzene	19.80	91	123133	3.59	ug/l	98

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

Data File : C:\HPCHEM\1\DATA\C2396.D
Acq Time : 6 Jul 95 9:53 pm
Sample : 3 87014 1:1000 zhe aec
Misc : 86836 organic
Quant Time: Jul 7 8:42 1995

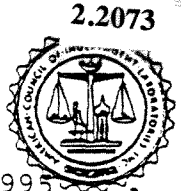
Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86837

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G5 DRUMS 1,26
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Corrosivity	Noncorrosi		07/06/95	EPA 1110	94-083-88	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	60	mg/L	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

cc

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000073

2.2074



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86837

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G5 DRUMS 1,26
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

2.2075



DATE Jul 24, 1995

LAB SAMPLE ID : 86838

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D005	Barium	7.88	mg/L	100.0	07/21/95	EPA 1311	95-094-06
D006	Cadmium	6.87	mg/L	1.0	07/21/95	EPA 1311	95-094-06
D007	Chromium	2.21	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D008	Lead	5.15	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D009	Mercury	ND<0.01	mg/L	0.2	07/21/95	EPA 1311	95-094-06
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 1311	95-094-06
D011	Silver	0.092	mg/L	5.0	07/21/95	EPA 1311	95-094-06

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000075



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 19, 1995

LAB SAMPLE ID : 87157

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	2.84	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	6.43	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	1.03	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	ND<0.440	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	ND<0.060	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

cc :

Approved by: Lindsey Brown

QUALITY ASSURANCE

NY 10252 PA 68180 NJ 73168 EPA NY 033

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000076
 Watertown, NY



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 19, 1995

LAB SAMPLE ID : 87015

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	8.67	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	6.94	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	2.39	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	5.88	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	0.097	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

CC :

QOT

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000077

2.2078



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE : Jul 27, 1995

LAB SAMPLE ID : 86838

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

* INSUFFICIENT AQUEOUS LAYER FOR TCLP-8270, TCLP-8150, AND TCLP-8080 ANALYSES. ANALYSES REPORTED ON ORGANIC LAYER ONLY. SEE FL# 87015

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000078
Watertown, NY



ONE RESEARCH CIRCLE
Semivolatiles TELEPHONE (607) 565-3500

WAVERLY, NY 14892-1532
FAX (607) 565-4083

Page 1 of 2



DATE : Jul 27, 1995

LAB SAMPLE ID : 87015

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1805
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/20/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<250	5.0
o-Cresol	ND<250	200.0
p-Cresol/m-Cresol	ND<250	200.0
Hexachloroethane	ND<250	3.0
Nitrobenzene	ND<250	2.0
Hexachlorobutadiene	ND<250	0.5
2,4,6-Trichlorophenol	ND<250	2.0
2,4,5-Trichlorophenol	ND<250	400.0
2,4-Dinitrotoluene	ND<250	0.13
Hexachlorobenzene	ND<250	0.13
Pentachlorophenol	ND<1000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : SMB	Notebook Reference : 95-012-1557
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

*** SURROGATES NOT ADDED.

** SURROGATES NOT ADDED PER METHOD 3580, HAZARDOUS WASTE DILUTION

For questions regarding this report, please call and ask for Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000079

Boston, MA

Syracuse, NY

Watertown, NY



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 87015

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-399
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC _____

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000080

Watertown, NY

Syracuse NY

MA

Quantitation Report

2.2081

Data Files: C:\HPCHEM\1\DATA\A1805.D
 Acq Time : 19 Jul 95 6:54 pm
 Sample : 87015-
 Misc : TCLP BNA, 7/5 AEC
 Quant Time: Jul 19 19:42 1995

Operator: DIANE BOED
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title :- 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.17	152	2328064	40.00	UG/ML	-0.32
19) NAPHTHALENE-D8	15.40	136	6703095	40.00	UG/ML	-0.31
34) ACENAPHTHENE-D10	19.95	164	3809948	40.00	UG/ML	-0.32
54) PHENANTHRENE-D10	23.80	188	4505117	40.00	UG/ML	-0.32
67) CHRYSENE-D12	30.70	240	2541210	40.00	UG/ML	-0.30
76) PERYLENE-D12	34.63	264	2092967	40.00	UG/ML	-0.29

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	11.84	99	1655	0.02	UG/ML	0.01%
20) NITROBENZENE-D5	13.78	82	27444	0.39	UG/ML	0.39%
38) 2-FLUOROBIPHENYL	18.30	172	3125	0.03	UG/ML	0.03%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	28.50	244	19070	0.26	UG/ML	0.26%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) 1,4-DICHLOROBENZENE	12.21	146	126446	1.43	UG/ML#	98
12) 1,2-DICHLOROBENZENE	12.56	146	1078678	12.92	UG/ML	94
16) N-NITROSODI-N-PROPYLAMINE	13.32	70	211739	3.57	UG/ML#	39
21) NITROBENZENE	14.02	77	82804	1.17	UG/ML#	37
28) BENZOIC ACID	15.51	122	19779	1.00	UG/ML#	1
42) 2,6-DINITROTOLUENE	19.95	165	485665	15.83	UG/ML#	23
65) DI-N-BUTYL PHTHALATE	25.43	149	950123	4.47	UG/ML	99
68) BENZIDINE	27.56	184	39378	1.53	UG/ML#	1
71) BUTYLBENZYL PHTHALATE	29.59	149	126436	1.30	UG/ML#	23
74) BIS-2-ETHYLHEXYL PHTHALATE	30.73	149	149327	1.19	UG/ML#	39
80) BENZO(A) PYRENE	34.86	252	109480	1.84	UG/ML#	2

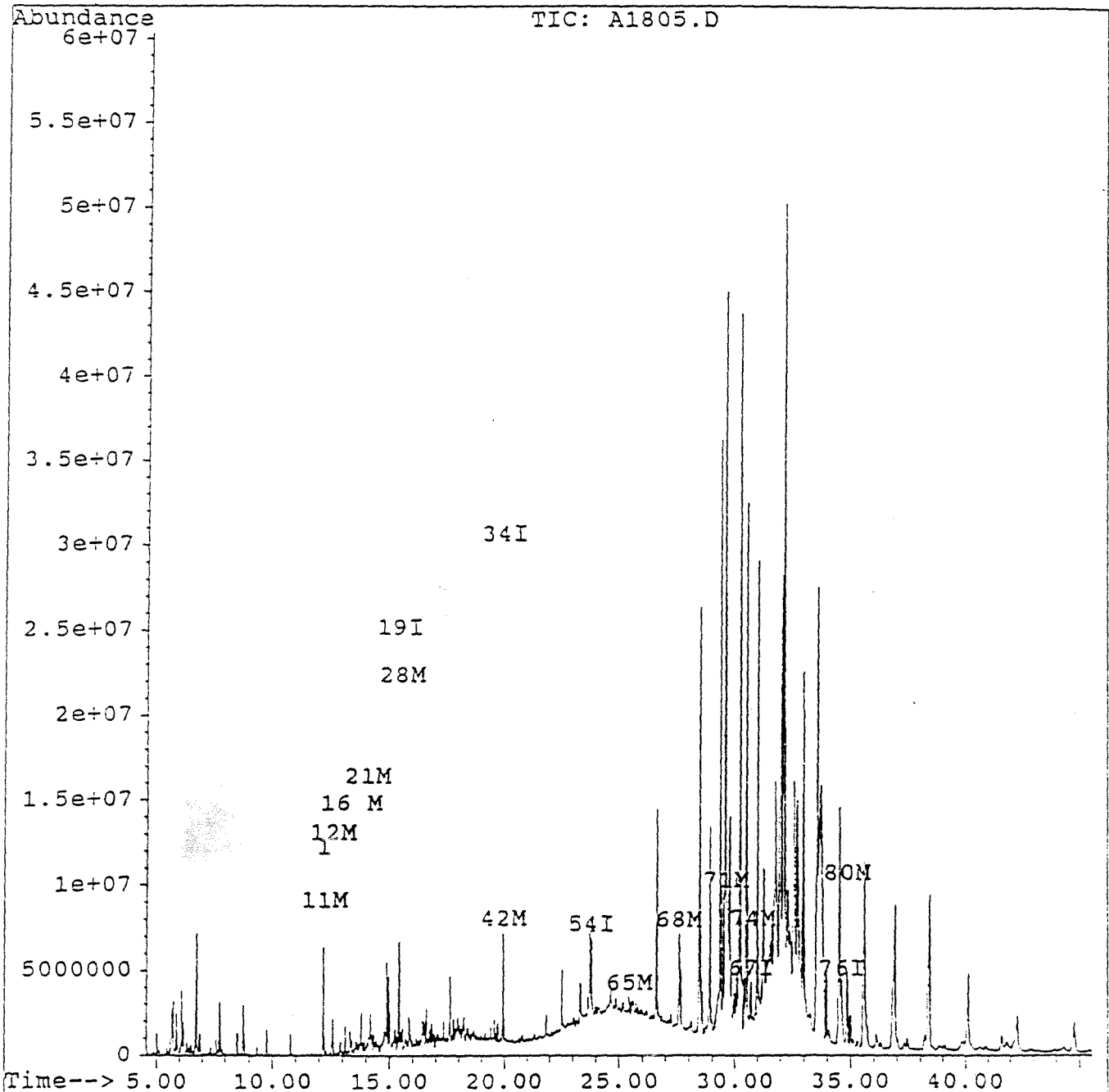
1 ml → 50 ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1805.D
Acq Time : 19 Jul 95 6:54 pm
Sample : 87015
Misc : TCLP BNA, 7/5 AEC
Quant Time: Jul 19 19:42 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

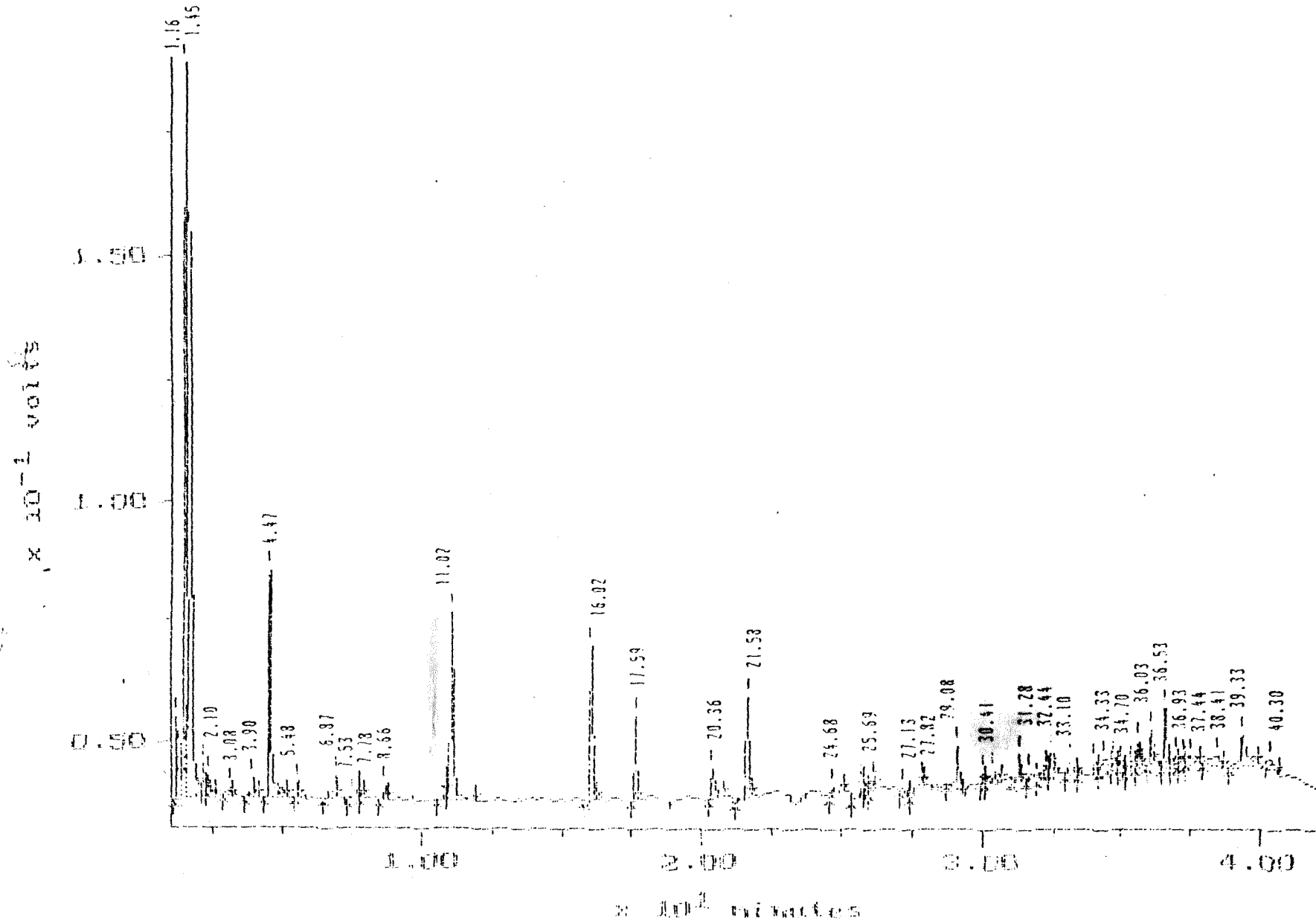
Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



Filename: E3951557
Operator: KXF

Channel: ECD 3
Method: C:\MAX\DATA3\HP20713

Sample: 6.015 1/10
Acquired: 13-JUL-95 18:33
Dilution: 1 : 10.000



cil990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 7:59:52

E: 87015 1/10

#15 in Method: PEST PROC METH
 Acquired: 13-JUL-1995 18:33
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951557
 Index: Disk

Dilution: 10.000

ECTOR: ECD 5

Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
		1.158	0.029	123830		1.083	1.325
		1.450	0.036	996076		1.325	1.550
		1.542	0.041	654781		1.550	2.542
		2.100	0.052	20200		2.000	2.192
		2.275	0.056	70733		2.192	2.533
		3.033	0.077	10504		2.842	3.192
		3.900	0.097	23756		3.608	4.108
		4.467	0.111	277317		4.333	5.183
		5.483	0.135	13447		5.375	5.600
		6.367	0.170	31509		6.483	7.003
		7.525	0.187	3865		7.342	7.717
		7.783	0.193	7989		7.717	7.892
		8.658	0.215	16976		8.467	8.800
		10.842	0.269	17228		10.542	10.966
		11.017	0.273	268572		10.908	11.908
		16.017	0.397	208571		15.850	16.283
		17.592	0.437	90618		17.442	17.758
		20.358	0.505	56629		20.209	20.725
		21.575	0.535	146529		21.158	21.820
		24.633	0.612	18621		24.600	25.100
		25.692	0.638	15814		25.325	25.758
		25.817	0.641	10391		25.758	25.917
		26.083	0.647	19034		25.917	26.283
		27.125	0.673	10145		27.047	27.333
		27.817	0.690	17212		27.458	27.917
		29.083	0.722	90655		28.725	29.333
		30.025	0.745	11028		29.892	30.117
		30.403	0.755	15460		30.117	30.633
		31.283	0.776	29195		31.075	31.425
		31.708	0.787	10834		31.600	31.933
		32.273	0.900	16060		31.933	32.333
		32.442	0.905	31078		32.333	32.575
		33.100	0.921	20363		32.942	33.375
		34.033	0.944	23300		33.375	34.150

34.333	0.852	55310	34.150	34.592
34.700	0.861	39265	34.592	34.897
35.000	0.863	21647	34.897	35.167
35.333	0.877	9881	35.167	35.442
35.583	0.883	34007	35.450	35.742
36.033	0.894	45312	35.883	36.208
36.533	0.907	109598	36.397	36.317
36.925	0.916	14127	36.817	37.050
37.200	0.923	15332	37.050	37.317
37.442	0.929	23578	37.317	37.800
38.408	0.953	51880	37.908	38.547
39.325	0.976	92061	38.833	39.858
40.200	1.000	13060	40.175	40.683

TOTAL

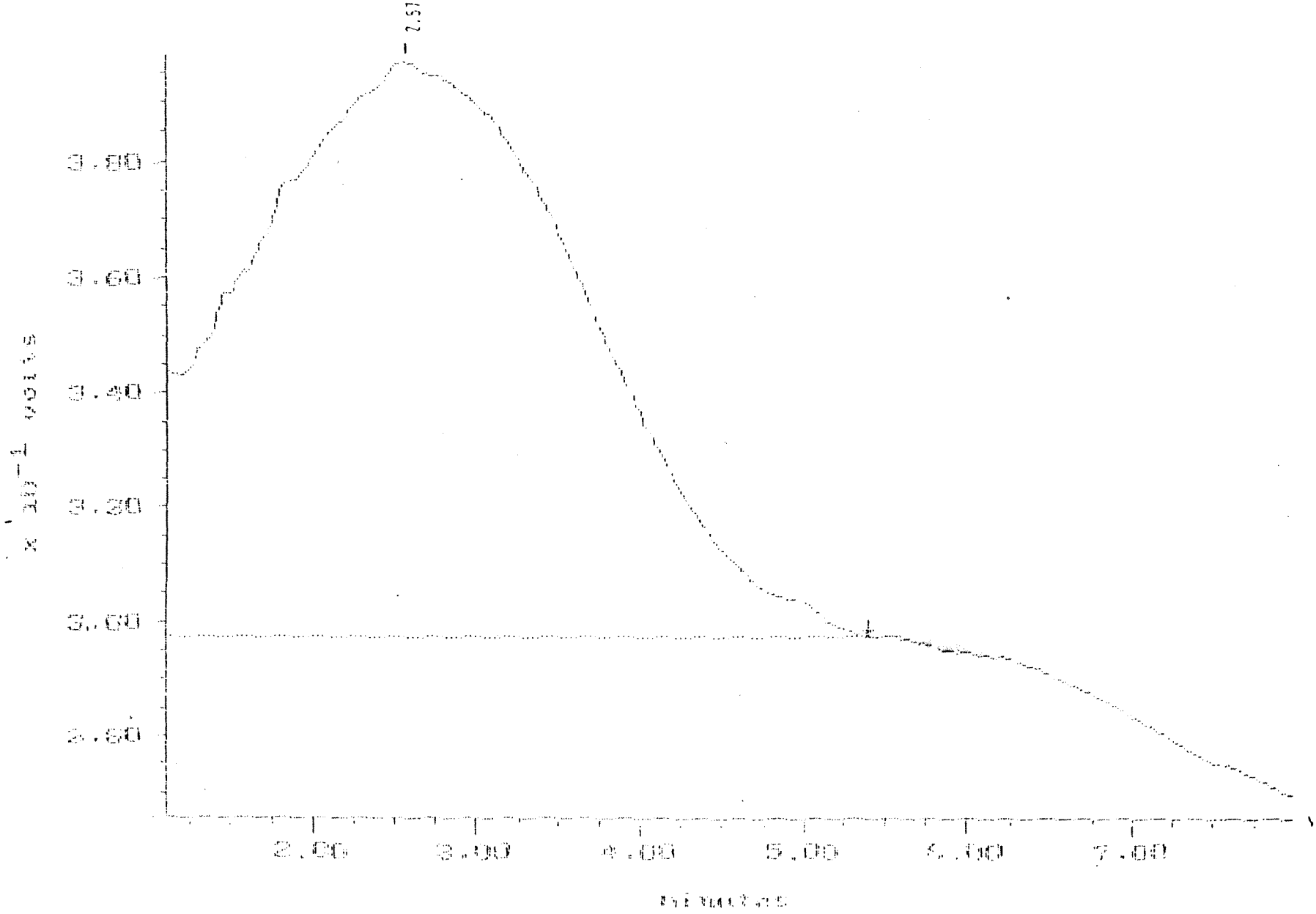
0.000

3865029

$$1 \text{ ml} \Rightarrow 100 \text{ e} \Rightarrow 10 \times$$

$$ND < 5 \frac{\text{mg}}{\text{e}}$$

Sample: 47015
Acquired: 17-JUL-95 18:28
Dilution: 1 : 10,000
Channel: ECO 1
Method: C:\MAX\DATA2\HR07-17
Filename: E1950299
Operator: SM8



TAA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:27:24

SAMPLE: 87015

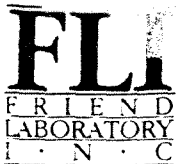
#23 in Method: SW 846 - 8150 Herbicides
 Acquired: 17-JUL-1995 18:38
 Rate: 7.0 points/sec
 Duration: 8.000 minutes
 Operator: SMR

Type: UNKN
 Instrument: Instrument 2
 Filename: E1950399
 Index: Disk

Dilution: 10.000

DETECTOR: ECD 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
---	-----	-----	-----	-----	-----	-----	-----	-----
			2.567	1.000	14179363		1.100	5.400
			-----	-----	-----			
TOTAL		0.000			14179363			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86839

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	by CLIENT

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 93-124-107
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/11/95
Compounds Detected	Results	
Vinyl Chloride	ND<4.3	0.2
1,1-Dichloroethene	ND<4.3	0.7
Methyl Ethyl Ketone	0.85	200.0
Chloroform	ND<4.3	6.0
Carbon Tetrachloride	ND<4.3	0.5
Benzene	ND<4.3	0.5
1,2-Dichloroethane	ND<4.3	0.5
Trichloroethene	ND<4.3	0.5
Tetrachloroethene	ND<4.3	0.7
Chlorobenzene	ND<4.3	100.0
1,4-Dichlorobenzene	104	7.5

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000088
 Watertown, NY



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 11, 1995

LAB SAMPLE ID : 87016

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	ZHE EXTRACT AQUEOUS LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2403
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.25	0.2
1,1-Dichloroethene	ND<0.25	0.7
Methyl Ethyl Ketone	6.3	200.0
Chloroform	ND<0.25	6.0
Carbon Tetrachloride	ND<0.25	0.5
Senzene	ND<0.25	0.5
1,2-Dichloroethane	ND<0.25	0.5
Trichloroethene	ND<0.25	0.5
Tetrachloroethene	ND<0.25	0.7
Chlorobenzene	ND<0.25	100.0
1,4-Dichlorobenzene	ND<0.25	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	89	
Toluene-d8	100	
Bromofluorobenzene	100	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000089
Watertown, NY

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2403.D
 Acq Time : 7 Jul 95 3:40 pm
 Sample : 11 87016 1:50 zhe aec
 Misc : 86839 aqueous
 Quant Time: Jul 10 8:01 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	8.78	168	2893611	50.00	ug/l	0.03
32) 1,4-Difluorobenzene	10.54	114	2564080	50.00	ug/l	0.01
39) Chlorobenzene-d5	15.83	117	1868042	50.00	ug/l	-0.01
58) 1,4-Dichlorobenzene-d4	19.39	152	983162	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.49	113	1512098	44.41	ug/l	88.82%
41) Toluene-d8	13.36	98	2048870	49.85	ug/l	99.70%
59) 4-Bromofluorobenzene	17.71	95	1350404	50.17	ug/l	100.33%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.75	43	786130	525.21	ug/l	95
23) MEK(2-Butanone)	7.15	72	85732	126.53	ug/l	84
28) Carbon Tetrachloride	8.78	117	2564080	50.00	ug/l	84
39) 1,1-Dichloroethene	8.78	75	100000	6.74	ug/l	59
40) MIBK(4-Methyl-2-pentanone)	13.21	43	4414608	648.50	ug/l #	98
42) Toluene	13.48	92	824988	31.91	ug/l	98
48) 2-Hexanone	14.70	43	1479473	342.81	ug/l	98
52) Ethylbenzene	16.03	106	81465	5.61	ug/l	95
53) p-Xylene/m-Xylene	16.23	106	269822	14.41	ug/l	99
65) 2-Chlorotoluene	18.21	91	242857	5.95	ug/l	98
66) 4-Chlorotoluene	18.21	91	242857	5.95	ug/l	98
73) 1,4-Dichlorobenzene	19.43	146	520106	21.97	ug/l #	100
76) 1,2-Dichlorobenzene	19.89	146	520106	21.97	ug/l	100

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

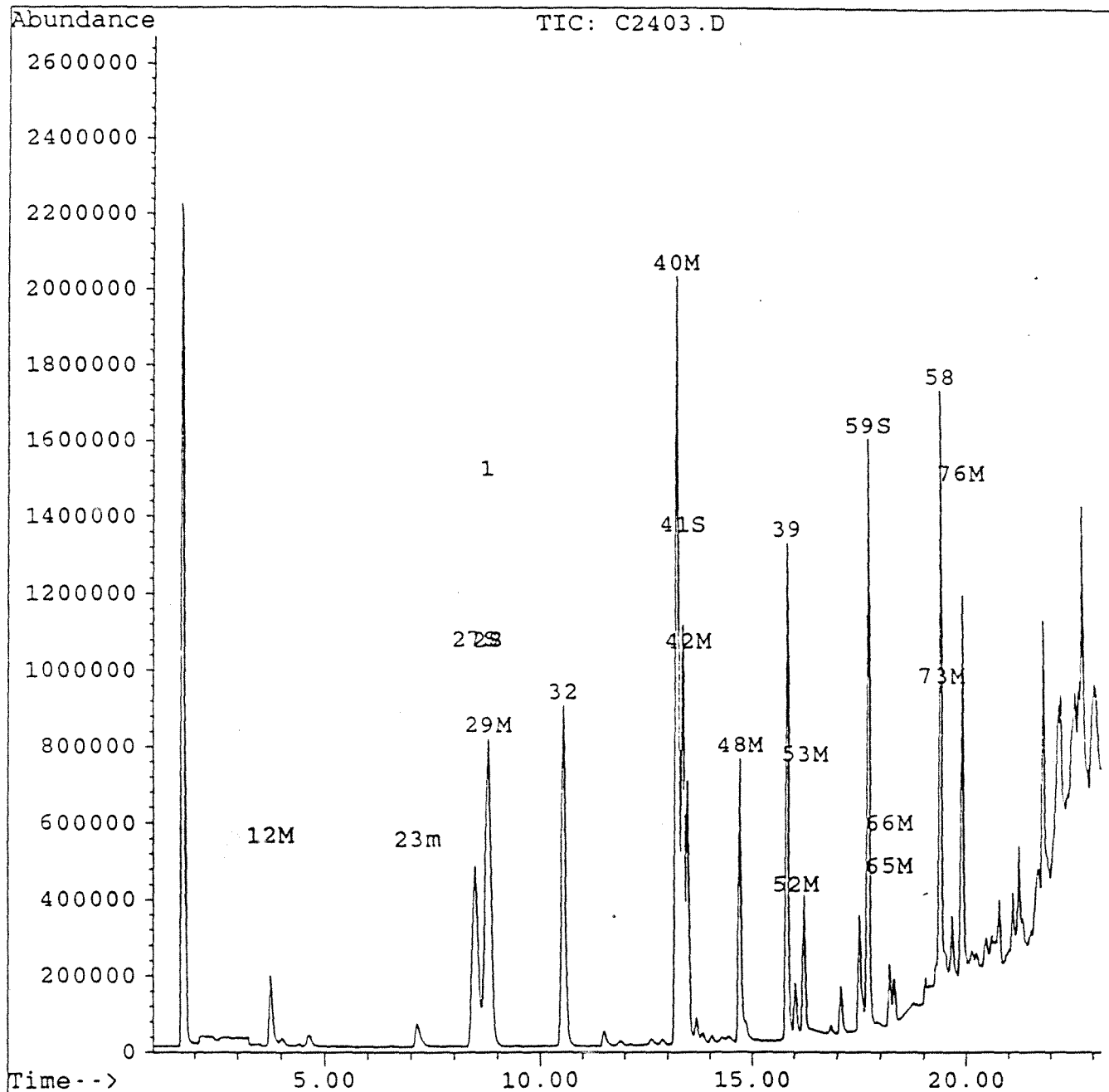
Quantitation Report

2.2091

Data File : C:\HPCHEM\1\DATA\C2403.D
Acq Time : 7 Jul 95 3:40 pm
Sample : 11 87016 1:50 zhe aec
Misc : 86839 aqueous
Quant Time: Jul 10 8:01 1995

Operator: C. Werd
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 87017

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86837
DESCRIPTION	ZHE EXTRACT ORGANIC LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2415
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<4.93	0.2
1,1-Dichloroethene	ND<4.93	0.7
Methyl Ethyl Ketone	ND<49.3	200.0
Chloroform	ND<4.93	6.0
Carbon Tetrachloride	ND<4.93	0.5
Benzene	ND<4.93	0.5
1,2-Dichloroethane	ND<4.93	0.5
Trichloroethene	ND<4.93	0.5
Tetrachloroethene	ND<4.93	0.7
Chlorobenzene	ND<4.93	100.0
1,4-Dichlorobenzene	120	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	100	
Toluene-d8	96	
Bromofluorobenzene	100	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

2.2093

Data File : C:\HPCHEM\1\DATA\C2415.D
 Acq Time : 7 Jul 95 9:42 pm
 Sample : 7 87017 1:500 zhe aec
 Misc : 86839 organic 0.9027 g -> 10 ml meoh
 Quant Time: Jul 10 8:43 1995

Operator: C. Ward
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-92.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.75	168	3220204	50.00	ug/l	0.00
32) 1,4-Difluorobenzene	10.53	114	2922652	50.00	ug/l	0.00
39) Chlorobenzene-d5	15.82	117	2292393	50.00	ug/l	-0.02
53) 1,4-Dichlorobenzene-d4	19.39	152	1274271	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.43	113	1901079	50.17	ug/l	100.34%
41) Toluene-d8	13.35	98	2425108	48.08	ug/l	96.17%
59) 4-Bromofluorobenzene	17.72	95	1751992	50.22	ug/l	100.43%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.73	43	25541	15.33	ug/l	92
15) Methylene chloride	4.98	84	32796	3.31	ug/l	96
18) MTBE(2-methoxy-2-methyl pr)	4.70	73	71129	3.09	ug/l	95
20) Carbon Tetrachloride	3.73	118	365118	3.33	ug/l	97
22) 1,1-Dichloroethane	3.71	75	318292	3.09	ug/l	97
26) Bromodichloromethane	12.16	89	99391	2.72	ug/l	95
37) 3-Chloroethylvinylbenzene	12.87	83	15339	2.63	ug/l	97
40) MTBE(1-Methyl-2-pentanone)	13.23	93	1993518	388.19	ug/l	98
42) Toluene	13.47	92	9127802	287.71	ug/l	94
44) 1,1,2-Trichloroethane	11.28	97	98339	3.87	ug/l	99
46) 2-Heptanone	14.71	113	1391511	360.36	ug/l	97
52) Ethylbenzene	16.03	106	1955379	109.67	ug/l	100
53) p-Xylene/m-Xylene	16.24	106	6634013	288.70	ug/l	95
54) o-Xylene	16.85	106	413272	18.33	ug/l	93
54) n-Propylbenzene	13.88	91	9993997	71.02	ug/l	94
65) 2-Chlorotoluene	18.22	91	5357379	101.21	ug/l	99
66) 1-Chlorotoluene	18.39	91	455793	3.55	ug/l	98
71) 1,3-Dichlorobenzene	19.29	146	392541	10.95	ug/l	98
73) 1,4-Dichlorobenzene	19.42	146	871500	24.17	ug/l	100
76) 1,2-Dichlorobenzene	19.88	146	6281457	204.72	ug/l	99
81) Napthalene	21.86	128	98381	5.72	ug/l #	91

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

Data File : C:\HPCHEM\1\DATA\C2415.D

Acq Time : 7 Jul 95 9:42 pm

Sample : 7 87017 1:500 zhe aec

Misc : 86839 organic 0.9027 g @ 10 ml meoh

Quant Time: Jul 10 8:43 1995

Operator: C. Werda

Inst : GC/MSD-C

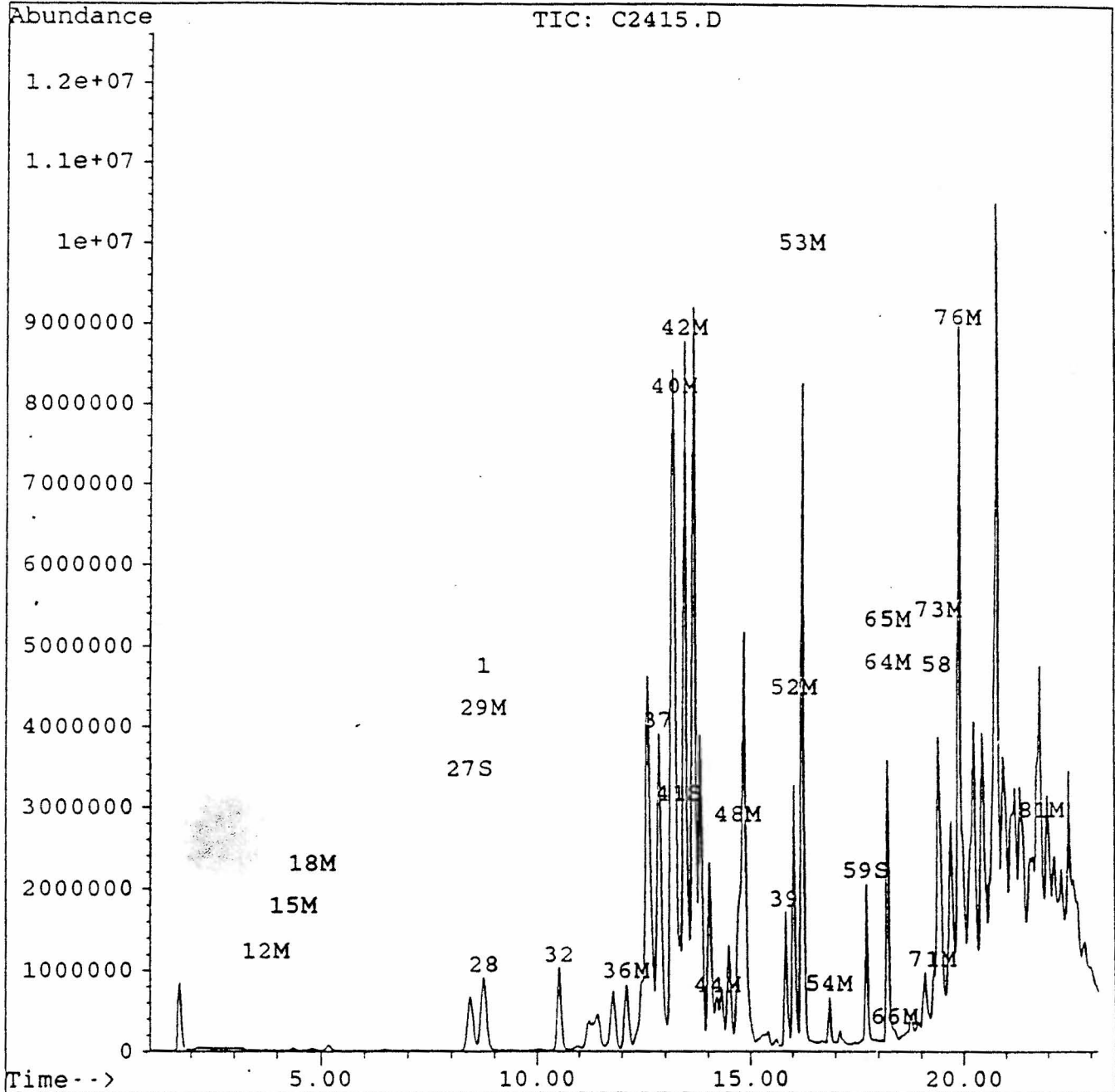
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M

Title : SW846/8240/8260

Last Update : Fri Jun 30 09:12:08 1995

Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

2.2095



DATE Jul 12, 1995

LAB SAMPLE ID : 86840

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G6 DRUMS 3, 8, 9, 10, 11, 22
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/05/95	EPA 1110	94-083-87	JAS
Cyanide Reactivity	ND<0.415	mg/Kg	07/07/95	SW846	95-124-2	crj
Ignitability	NON-IGNITA		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	60	mg/Kg	07/11/95	SW 846	94-221-16	BJH

* VAPOR BURNS AT 58 DEGREES C

For questions regarding this report, please call Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000095



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86840

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G6 DRUMS 3,8,9,10,11,22
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		07/01/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		07/01/95	EPA 1311	92-005-147	KJR
% Total Solids	100	percent	07/01/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000096



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

2.2097



DATE Jul 21, 1995

LAB SAMPLE ID : 86841

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86840
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	3.21	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	1.39	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	0.210	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Sundance Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000097



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE : Jul 27, 1995

LAB SAMPLE ID : 86841

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86840
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *
Method : SW846/8270
Compounds Detected

Analyst : DMB
Units : MG/L
Results

Notebook Reference : 94-248-1780
Date Analyzed : 07/17/95
Date Extracted : 07/05/95

Pyridine	ND<1.7	5.0
o-Cresol	ND<1.7	200.0
p-Cresol/m-Cresol	ND<1.7	200.0
Hexachloroethane	ND<1.7	3.0
Nitrobenzene	ND<1.7	2.0
Hexachlorobutadiene	ND<1.7	0.5
2,4,6-Trichlorophenol	ND<1.7	2.0
2,4,5-Trichlorophenol	ND<1.7	400.0
2,4-Dinitrotoluene	ND<1.7	0.13
Hexachlorobenzene	ND<1.7	0.13
Pentachlorophenol	ND<6.7	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *
Method : SW846/8080/3510
Compounds Detected

Analyst : KKF
Units : MG/L
Results

Notebook Reference : 95-012-1570
Date Analyzed : 07/14/95
Date Extracted : 07/07/95

Lindane	ND<0.03	0.4
Heptachlor	ND<0.03	0.008
Heptachlor Epoxide	ND<0.03	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.
** SURROGATES WERE DILUTED OUT.

For questions regarding this report, please call and ask for Customer Services.

CC :

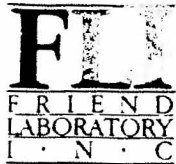
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000098



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083

Page 2 of 2



DATE Jul 20, 1995

LAB SAMPLE ID : 86841

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86840
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<0.03	0.02
Methoxychlor	ND<0.03	10.0
Chlordane	ND<0.03	0.03
Toxaphene	ND<0.3	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	**	
Decachlorobiphenyl	**	
TCLP Herbicides	Analyst : SMB	Notebook Reference : 94-171-393
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<0.012	10.0
Silvex (2,4,5-TP)	ND<0.002	1.0

005

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000099

Watertown, NY

Syracuse, NY

Boston, MA

2.2100

Sample: 88841 1/100

Channel: E60 3

Filename: E3951570

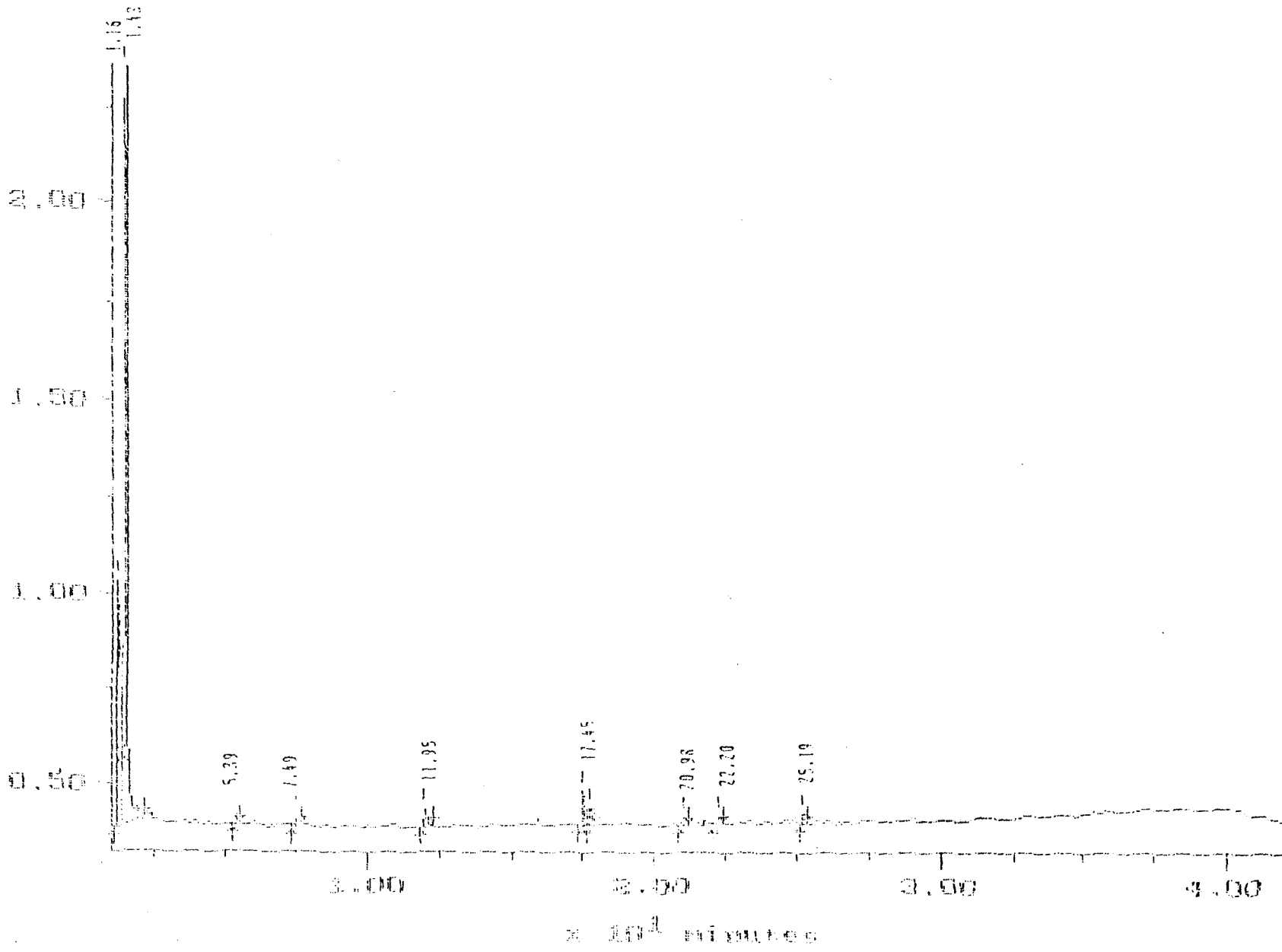
Acquired: 14-JUL-95 4:17

Method: C:\MAX\DATA3\HP20713

Operator: KXF

Dilution: 1 : 100.000

* 10⁻¹ 0.0175



000100



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 7, 1995

LAB SAMPLE ID : 86842

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86840
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2400
Method : SW846/8240/5030	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.02	0.2
1,1-Dichloroethene	ND<0.02	0.7
Methyl Ethyl Ketone	ND<0.2	200.0
Chloroform	ND<0.02	6.0
Carbon Tetrachloride	ND<0.02	0.5
Benzene	ND<0.02	0.5
1,2-Dichloroethane	ND<0.02	0.5
Trichloroethene	ND<0.02	0.5
Tetrachloroethene	ND<0.02	0.7
Chlorobenzene	ND<0.02	100.0
1,4-Dichlorobenzene	ND<0.02	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	52 *	
Toluene-d8	140 *	
Bromofluorobenzene	149 *	

* SURROGATE RECOVERIES OUTSIDE ACCEPTANCE LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

005

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000102



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86843

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G7 DRUMS 6,39
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Corrosivity	Noncorrosi		07/06/95	EPA 1110	94-083-88	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	45	mg/L	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

qs

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86843

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G7 DRUMS 6,39
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-28	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-28	KJR

For questions regarding this report, please call Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown

QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86844

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86843
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLJENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	0.317	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.104	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	0.430	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: *Lindsey Brown*

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000105



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE : Jul 26, 1995

LAB SAMPLE ID : 86844

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86843
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1798
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/19/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<250	5.0
o-Cresol	ND<250	200.0
p-Cresol/m-Cresol	ND<250	200.0
Hexachloroethane	ND<250	3.0
Nitrobenzene	ND<250	2.0
Hexachlorobutadiene	ND<250	0.5
2,4,6-Trichlorophenol	ND<250	2.0
2,4,5-Trichlorophenol	ND<250	400.0
2,4-Dinitrotoluene	ND<250	0.13
Hexachlorobenzene	ND<250	0.13
Pentachlorophenol	ND<1000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1564
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.
*** SURROGATES NOT ADDED.
** SURROGATES NOT ADDED PER METHOD 3580, HAZARDOUS WASTE DILUTION

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86844

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86843
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-388
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000107

Watertown, NY

Syracuse, NY

Boston, MA

Watertown, NY

Watertown, NY

Watertown, NY

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1798.D
 Acq Time : 19 Jul 95 11:56 am
 Sample : 86844
 Misc : TCLPBNA, 7/9 AEC
 Quant Time: Jul 19 12:43 1995

Operator: DIANE BOZ
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.16	152	2581515	40.00	UG/ML	-0.31
19) NAPHTHALENE-D8	15.40	136	7672748	40.00	UG/ML	-0.32
34) ACENAPHTHENE-D10	19.93	164	4192589	40.00	UG/ML	-0.33
54) PHENANTHRENE-D10	23.79	188	4945362	40.00	UG/ML	-0.34
67) CHRYSENE-D12	30.65	240	2673735	40.00	UG/ML	-0.35
76) PERYLENE-D12	34.55	264	1740456	40.00	UG/ML	-0.37

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	0.00	99	0	0.00	UG/ML	0.00%
20) NITROBENZENE-D5	13.62	82	22319	0.28	UG/ML	0.28%
38) 2-FLUOROBIPHENYL	18.24	172	32304	0.26	UG/ML	0.26%
53) 2,4,6-TRIBROMOPHENOL	22.09	330	361	0.03	UG/ML	0.01%
70) TERPHENYL-D14	28.49	244	23073	0.30	UG/ML	0.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
42) 2,6-DINITROTOLUENE	19.93	155	516274	15.29	UG/ML#	25
68) BENZIDINE	27.55	184	56772	2.09	UG/ML#	1
74) BIS-2-ETHYLHEXYL PHTHALATE	30.78	149	544412	4.11	UG/ML#	89

$$1 \text{ ml} \rightarrow 50 \text{ ml}$$

$$\left(\frac{5 \mu\text{g}}{\text{ml}} \right) \left(\frac{1000 \text{ ml}}{1 \text{ l}} \right) \left(\frac{1 \text{ mg}}{1000 \mu\text{g}} \right) \left(\frac{50 \text{ ml}}{1 \text{ ml}} \right)$$

$$= 250 \frac{\text{mg}}{\text{l}}$$

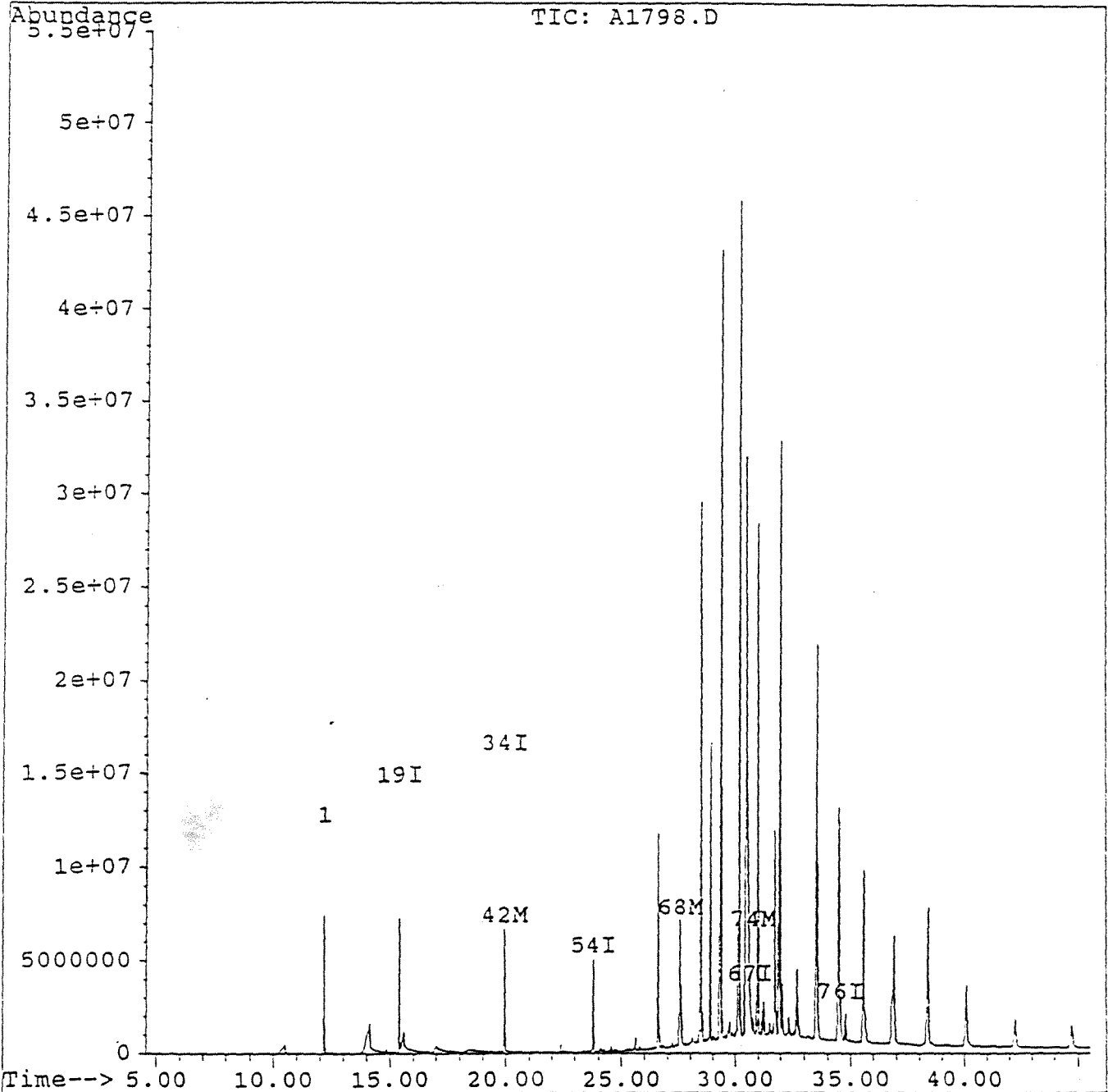
Quantitation Report

2.2109

Data File : C:\HPCHEM\1\DATA\A1798.D
Acq Time : 19 Jul 95 11:56 am
Sample : 86844
Misc : TCLPBNA, 7/9 AEC
Quant Time: Jul 19 12:43 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration

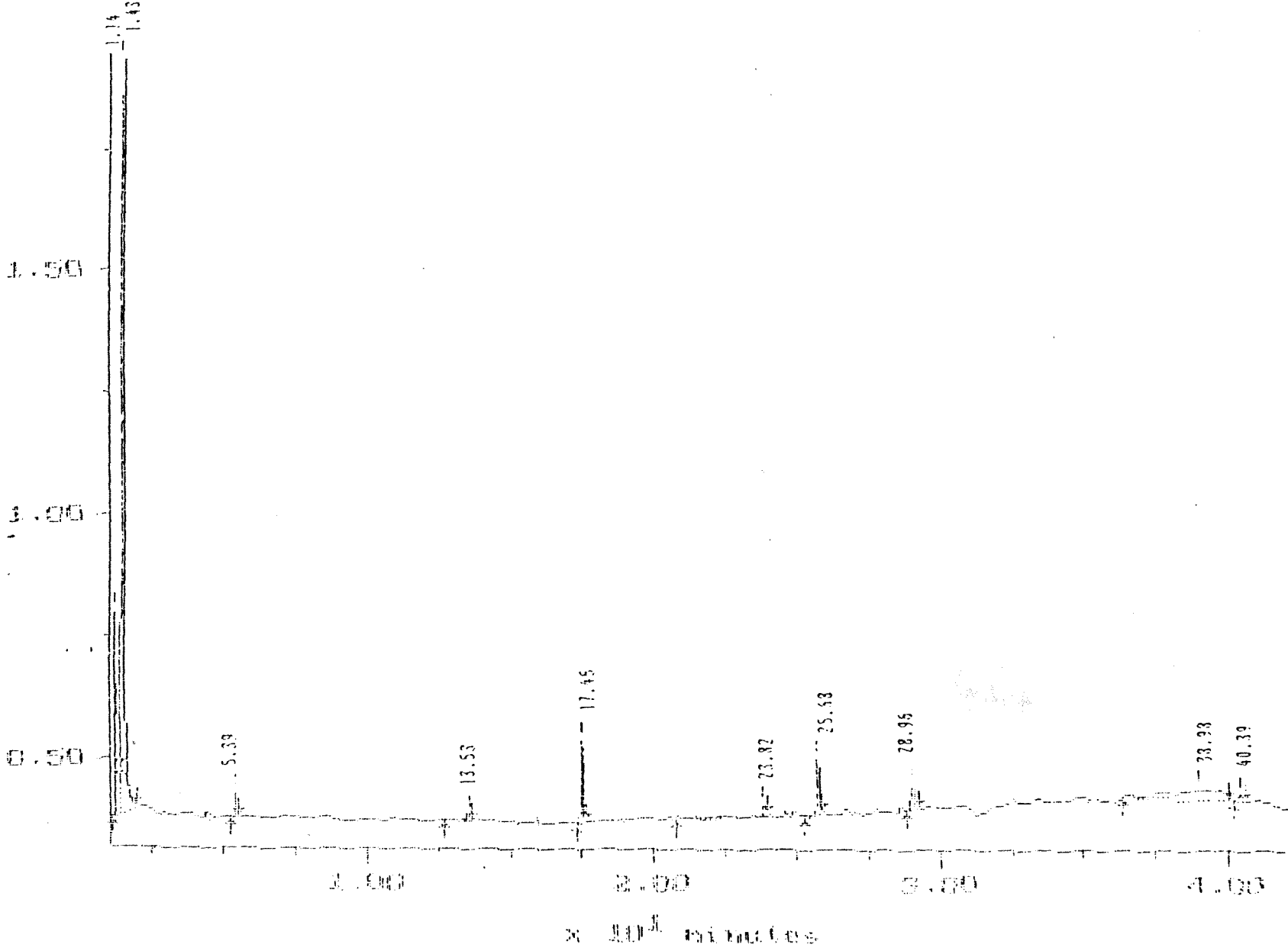


2.2110

Sample: ~~6644~~/10 Channel: ECO 3
Acquired: 13-JUL-95 23:45 Method: C:\MAX\DATA3\HP20713
Dilution: 1 : 10.000

Filename: 6333.D
Operator: YXF

6644
FL# 86844
 $\times 10^{-1}$ volts



000110

MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:01:57

93244 KKF
~~9667~~
SAMPLE: ~~93244~~ 1/10

422 in Method: PEST PROC METH
Acquired: 13-JUL-1995 23:45
Rate: 2.0 points/sec
Duration: 42.000 minutes
Operator: KKF

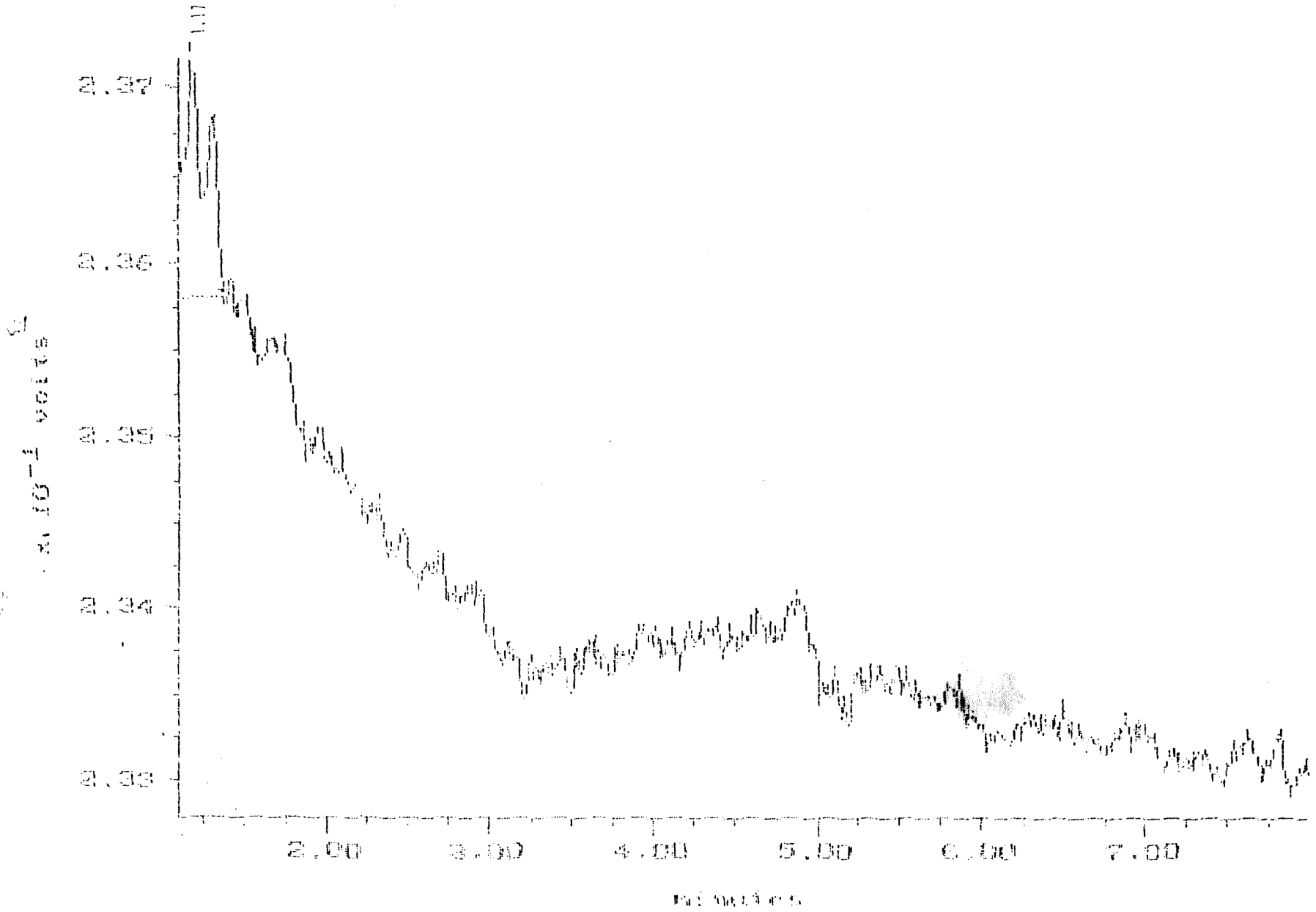
Type: UNKN
Instrument: Instrument 3
Filename: E3951564
Index: Disk
Dilution: 10.000

DETECTOR: ECD 3

FL#	Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.142	0.028	257196		1.067	1.308
			1.433	0.035	1073783		1.308	1.958
			5.392	0.133	18527		5.283	5.517
			13.525	0.335	14284		12.667	13.683
			17.450	0.432	85644		17.308	17.609
			23.817	0.590	13995		20.708	23.958
			25.683	0.636	62298		25.257	25.850
			28.958	0.717	39227		28.817	29.208
			38.975	0.965	257817		36.350	40.017
			40.392	1.000	15344		40.150	40.600
TOTAL		0.000			1833110			

1mc ⇒ 100mc ⇒ 10x
NALS.c $\frac{mg}{L}$

Sample: 86844 Channel: ECO 1
Acquired: 17-JUL-95 16:47 Method: C:\MAX\DATA\HR87-17
Dilution: 1:10.000
Filename: E1950388
Operator: SMR



MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:20:44

SAMPLE: 86844

#17 in Method: SW 846 - 8150 Herbicides
Acquired: 17-JUL-1995 16:47
Rate: 2.0 points/sec
Duration: 8.000 minutes
Operator: SMR

Type: UNKN
Instrument: Instrument 2
Filename: E1950338
Index: Disk
Dilution: 10.000

DETECTOR: ECO 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.167	1.000	12531		1.100	1.333
TOTAL		0.000			12531			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 86845

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86843
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis *	Analyst : CPW	Notebook Reference : 95-106-2363
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/05/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<1.25	0.2
1,1-Dichloroethene	ND<1.25	0.7
Methyl Ethyl Ketone	ND<12.5	200.0
Chloroform	ND<1.25	6.0
Carbon Tetrachloride	ND<1.25	0.5
Benzene	ND<1.25	0.5
1,2-Dichloroethane	ND<1.25	0.5
Trichloroethene	ND<1.25	0.5
Tetrachloroethene	ND<1.25	0.7
Chlorobenzene	ND<1.25	100.0
1,4-Dichlorobenzene	ND<1.25	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	99	
Toluene-d8	88	
Bromofluorobenzene	157	

* TCLP ACTION LEVEL UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

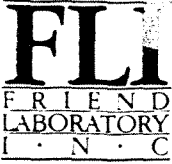
CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86846

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G8 DRUMS 14,15,18,35,38
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/06/95	EPA 1110	94-083-88	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/06/95	EPA 1010	87-126-32	KJR
Sulfide Reactivity	21	mg/L	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

QC

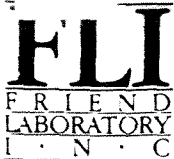
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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000117



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86846

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G8 DRUMS 14,15,18,35,38
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-29	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-29	KJR

For questions regarding this report, please call Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86847

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86846
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	by CLIENT

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	5.43	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.295	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

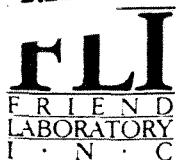
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: *Lindsey Brown*

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000119



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 86847

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86846
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	by CLIENT

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1800
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/19/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<500	5.0
o-Cresol	ND<500	200.0
p-Cresol/m-Cresol	ND<500	200.0
Hexachloroethane	ND<500	3.0
Nitrobenzene	ND<500	2.0
Hexachlorobutadiene	ND<500	0.5
2,4,6-Trichlorophenol	ND<500	2.0
2,4,5-Trichlorophenol	ND<500	400.0
2,4-Dinitrotoluene	ND<500	0.13
Hexachlorobenzene	ND<500	0.13
Pentachlorophenol	ND<2000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1559
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

*** SURROGATES NOT ADDED.

** SURROGATES NOT ADDED PER METHOD 3580, HAZARDOUS WASTE DILUTION

For questions regarding this report, please call and ask for Customer Services.

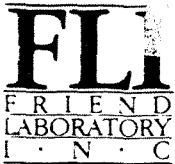
CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Sudrey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE
Semivolatiles TELEPHONE (607) 565-3500

WAVERLY, NY 14892-1532
FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 86847

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86846
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	by CLIENT

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-400
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1800.D
 Acq Time : 19 Jul 95 1:55 pm
 Sample : 86847, 10x
 Misc : TCLPBNA, 7/9 AEC
 Quant Time: Jul 19 14:43 1995

Operator: DIANE BOZ
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.16	152	2238330	40.00	UG/ML	-0.31
19) NAPHTHALENE-D8	15.40	136	6839849	40.00	UG/ML	-0.32
34) ACENAPHTHENE-D10	19.93	164	3636919	40.00	UG/ML	-0.33
54) PHENANTHRENE-D10	23.79	188	4227997	40.00	UG/ML	-0.33
67) CHRYSENE-D12	30.63	240	2003054	40.00	UG/ML	-0.37
76) PERYLENE-D12	34.54	264	1444782	40.00	UG/ML	-0.38

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	0.00	99	0	0.00	UG/ML	0.00%
20) NITROBENZENE-D5	0.00	82	0	0.00	UG/ML	0.00%
38) 2-FLUOROBIPHENYL	18.30	172	2523	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	27.96	244	4125	0.07	UG/ML	0.07%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
42) 2,6-DINITROTOLUENE	19.93	165	443131	15.13	UG/ML#	25

5ml → 50ml, 10x

$$\left(\frac{5\mu\text{g}}{\text{ml}}\right)\left(\frac{50\text{ml}}{5\text{ml}}\right)\left(\frac{1\text{ml}}{1\text{ml}}\right)\left(\frac{1000\text{ml}}{1}\right)\left(\frac{1\text{mg}}{1000\mu\text{g}}\right)$$

$$= 500 \frac{\text{mg}}{\text{ml}}$$

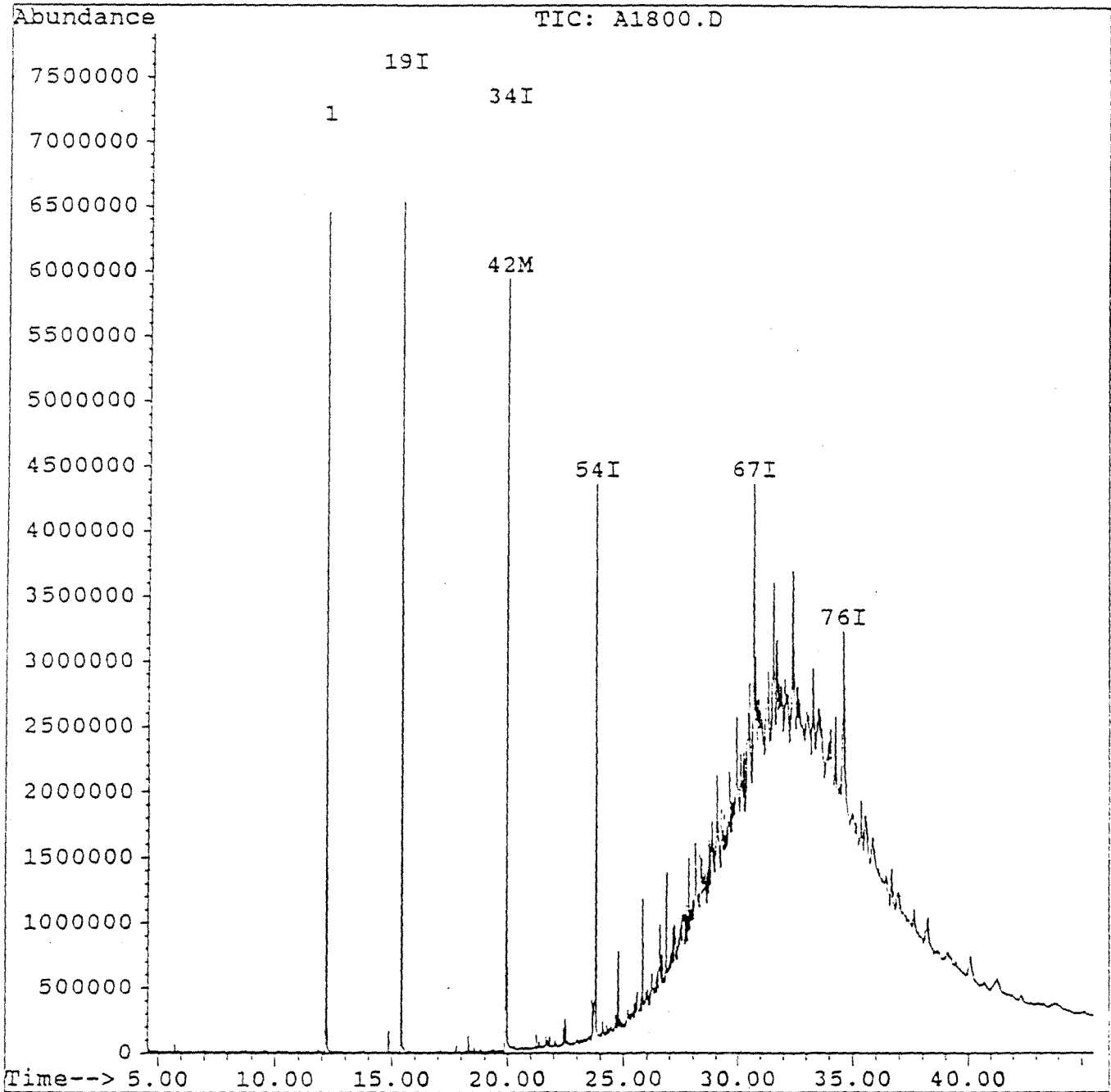
Quantitation Report

2.2121

Data File : C:\HPCHEM\1\DATA\A1800.D
Acq Time : 19 Jul 95 1:55 pm
Sample : 86847, 10x
Misc : TCLPBNA, 7/9 AEC
Quant Time: Jul 19 14:43 1995

Operator: DIANE BOZE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration

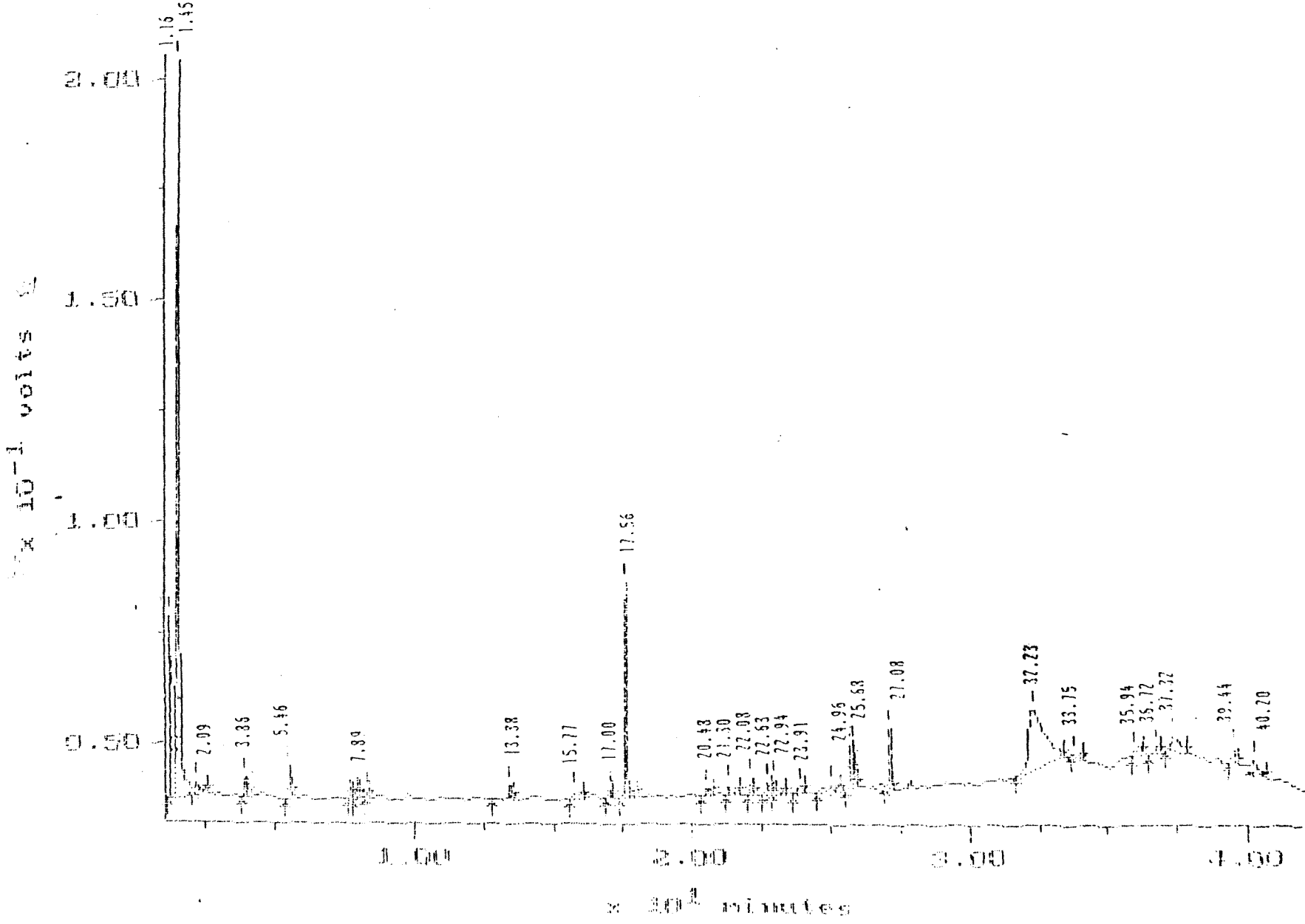


2.2122

Sample: 86847 1/10
Acquired: 13-JUL-95 20:03
Dilution: 1 : 10,000

Channel: ECO 3
Method: C:\MAX\DATA\HP20713

Filename: E391009
Operator: XKF



000124

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MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:00:23

SAMPLE: R6847 1/10

#17 in Method: PEST PROC METH
Acquired: 13-JUL-1995 20:03
Rate: 2.0 prints/sec
Duration: 42.000 minutes
Operator: KKF

Type: UNKN
Instrument: Instrument 3
Filename: E3951559
Index: Disk

Dilution: 10.000

DETECTOR: ECO 3

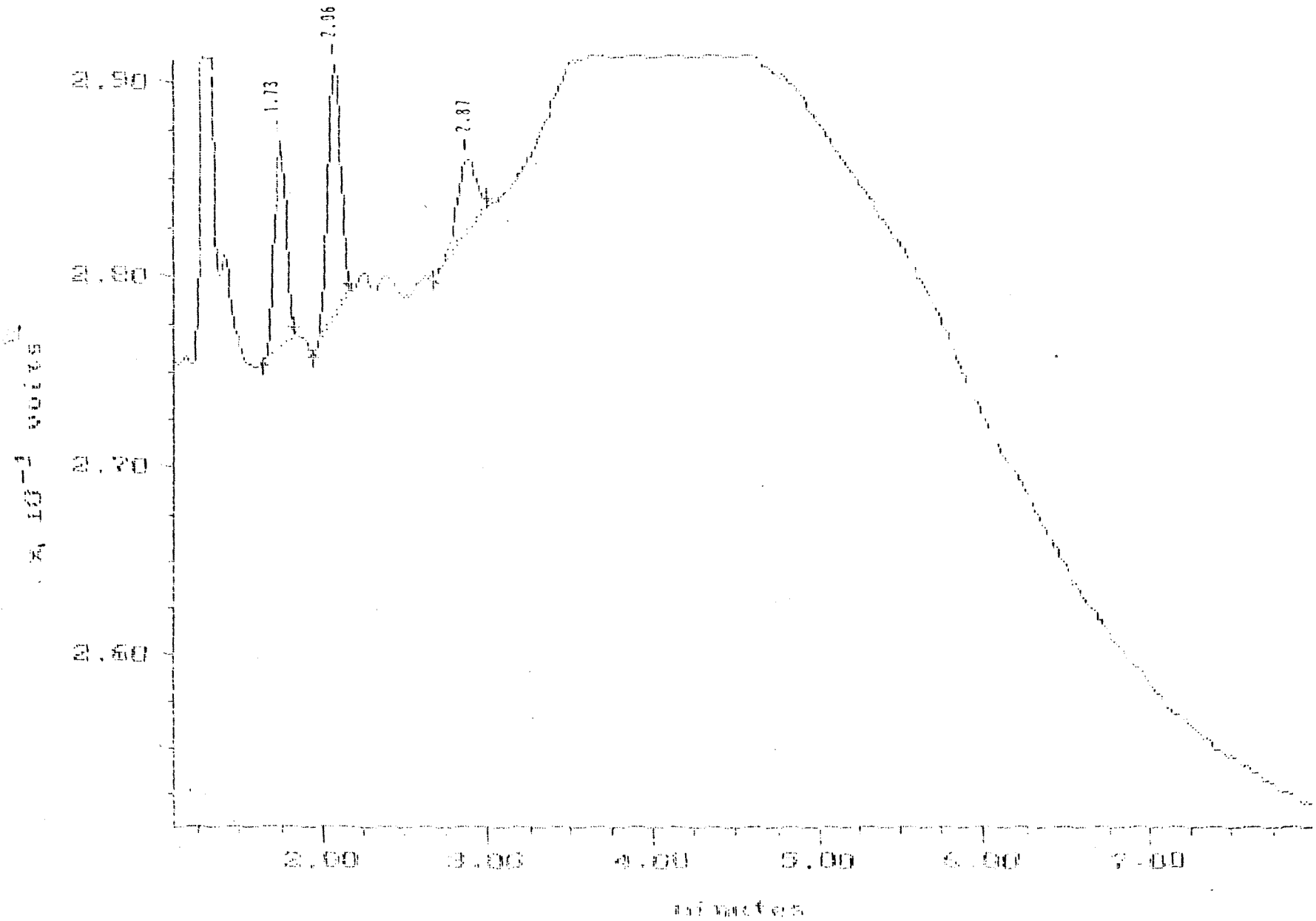
FL#	Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.153	0.029	282521		1.075	1.325
			1.450	0.036	1158510		1.325	2.525
			2.092	0.052	11757		1.992	2.525
			3.858	0.096	15965		3.753	3.992
			5.453	0.136	31180		5.342	5.617
			7.542	0.190	663		7.567	7.742
			7.892	0.196	1137		7.767	8.025
			8.250	0.205	6331		8.167	8.367
			13.383	0.333	21258		12.750	13.533
			15.767	0.392	21277		15.553	16.108
			17.000	0.423	10185		16.375	17.117
			17.558	0.437	251225		17.400	17.992
			20.483	0.510	16484		20.253	20.717
			21.300	0.530	19307		21.175	21.575
			22.083	0.549	21094		21.942	22.233
			22.625	0.563	16070		22.508	22.817
			22.942	0.571	22006		22.817	23.317
			23.903	0.595	15999		23.600	24.025
			24.953	0.571	25741		24.517	25.333
			25.533	0.539	51903		25.533	25.733
			25.775	0.641	50324		25.733	25.942
			27.023	0.674	75502		26.933	27.250
			32.233	0.802	499777		31.550	33.367
			33.750	0.840	13082		33.642	34.092
			35.942	0.894	19296		35.333	36.233
			36.717	0.913	11720		36.442	36.867
			37.317	0.928	63680		37.067	37.842
			39.442	0.981	25505		39.292	39.617
			40.230	1.000	30763		40.053	40.633

TOTAL 0.000

2795317

*1mc => 100mc => 10x
WAL 5 $\frac{mg}{L}$*

Sample: 86847 Channel: ECD 1 Filename: 8195040
Acquired: 17-JUL-95 18:43 Method: C:\MAX\DATA\HR87-17 Operator: SM2
Duration: 1:10.000



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MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:28:40

SAMPLE: 86847

#24 in Method: SW 846 - 8150 Herbicides
 Acquired: 17-JUL-1995 18:48
 Rate: 2.0 points/sec
 Duration: 8.000 minutes
 Operator: SMB

Type: UNKN
 Instrument: Instrument 2
 Filename: E1950400
 Index: Disk
 Dilution: 10.000

DETECTOR: ECO 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.733	0.605	52802		1.642	1.825
			2.058	0.718	73757		1.950	2.167
			2.367	1.000	30691		2.675	2.992

TOTAL		0.000			157250			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 86848

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road

Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86846
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis *

Method : SW846/5030/8240

Compounds Detected

Vinyl Chloride

1,1-Dichloroethene

Methyl Ethyl Ketone

Chloroform

Carbon Tetrachloride

Benzene

1,2-Dichloroethane

Trichloroethene

Tetrachloroethene

Chlorobenzene

1,4-Dichlorobenzene

Surrogate Recovery (%)

Dibromofluoromethane

Toluene-d8

Bromofluorobenzene

Analyst : CPW

Units : MG/L

Results

ND<25

ND<25

ND<250

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

ND<25

98

90

103

Notebook Reference : 95-106-2383

Date Analyzed : 07/06/95

0.2

0.7

200.0

6.0

0.5

0.5

0.5

0.5

0.7

100.0

7.5

* TCLP ACTION LEVEL UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC/B

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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Quantitation Report

2.2127

Data File : C:\HPCHEM\1\DATA\C2383.D
 Acq Time : 6 Jul 95 3:21 pm
 Sample : 6 86848 1:5000 zhe aec
 Misc : g8
 Quant Time: Jul 7 8:11 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.77	168	2394007	50.00	ug/l	0.02
32) 1,4-Difluorobenzene	10.53	114	2213011	50.00	ug/l	0.00
39) Chlorobenzene-d5	15.84	117	1865873	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.41	152	1054489	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.46	113	1387904	49.27	ug/l	98.54%
41) Toluene-d8	13.36	98	1844433	44.93	ug/l	89.86%
59) 4-Bromofluorobenzene	17.73	95	1491632	51.66	ug/l	103.33%

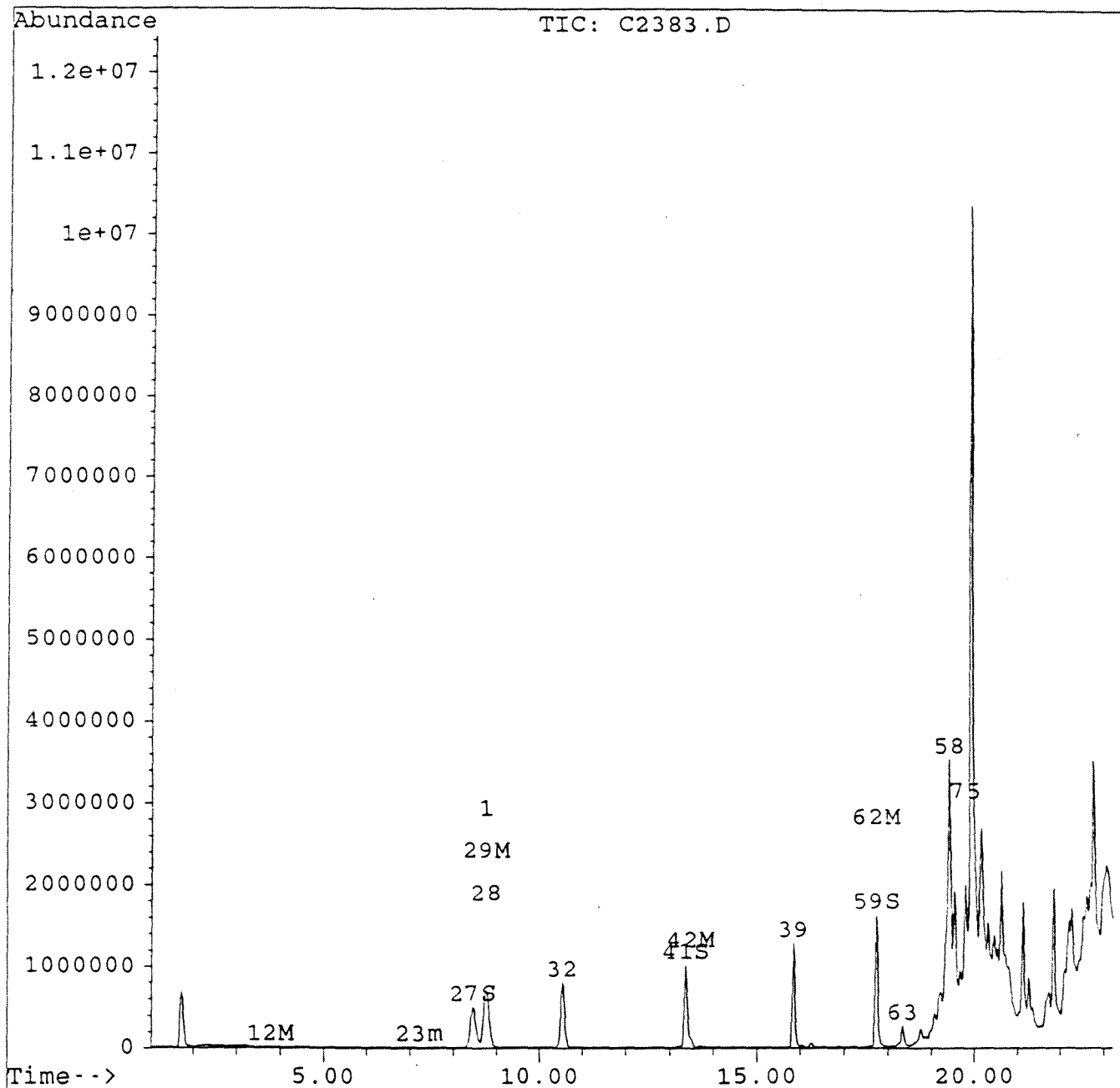
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone (2-Propanone)	3.73	43	81710	17.51	ug/l	23
22) MEK (2-Butanone)	7.21	73	6034	10.70	ug/l	0
28) Carbon Tetrachloride	8.75	117	208100	6.74	ug/l	10
33) 1,1-Dichloroethane	8.75	75	171070	7.97	ug/l	57
42) Toluene	13.48	92	125727	4.87	ug/l	96
62) 1,1,2-Trichloroethane	17.73	75	887000	49.98	ug/l	45
69) trans-1,2-Dichloroethane	18.99	99	10000	2.07	ug/l	0
75) Benzyl Chloride	19.73	51	49604	2.67	ug/l	13

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2383.D
Acq Time : 6 Jul 95 3:21 pm
Sample : 6 86848 1:5000 zhe aec
Misc : g8
Quant Time: Jul 7 8:11 1995

Operator: C. werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86849

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G9 DRUMS 2,5,28
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/10/95	EPA 1110	94-083-89	JAS
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/07/95	EPA 1010	87-126-33	KJR
Sulfide Reactivity	420	mg/L	07/11/95	SW 846	94-221-16	BJH

VAPOR BURN AT 27 DEGREES C

For questions regarding this report, please call Customer Services.

CC :

qd

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

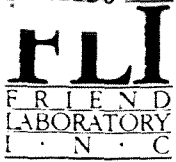
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000131

Albany, NY Scranton, PA Jamestown, NY Boston, MA Syracuse, NY Watertown, NY

2.2130



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86849

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G9 DRUMS 2,5,28
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-29	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-29	KJR

For questions regarding this report, please call Customer Services.

QC D

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000132



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 24, 1995

LAB SAMPLE ID : 86850

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D005	Barium	0.395	mg/L	100.0	07/21/95	EPA 1311	95-094-06
D006	Cadmium	0.109	mg/L	1.0	07/21/95	EPA 1311	95-094-06
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D008	Lead	0.514	mg/L	5.0	07/21/95	EPA 1311	95-094-06
D009	Mercury	ND<0.01	mg/L	0.2	07/21/95	EPA 1311	95-094-06
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 1311	95-094-06
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 1311	95-094-06

For questions regarding this report, please call Customer Services.

cc :

QC

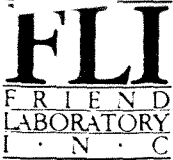
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000133



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 24, 1995

LAB SAMPLE ID : 87018

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE by CLIENT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	1.20	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	0.063	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	ND<0.160	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	0.788	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	ND<0.01	mg/L	0.2	07/19/95	EPA 7470	93-290-57
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	ND<0.060	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

CC :

aeD

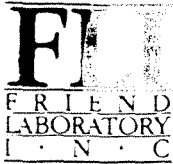
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 87019

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.300	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	0.178	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.122	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

cc

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Albany, NY

Scranton, PA

Jamestown, NY

Boston, MA

Syracuse, NY

000135
 Watertown, NY



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86850

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 93-124-115
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/19/95
Compounds Detected	Results	Date Extracted :
-----	-----	-----
Pyridine	ND<788	5.0
o-Cresol	ND<788	200.0
p-Cresol/m-Cresol	ND<788	200.0
Hexachloroethane	ND<788	3.0
Nitrobenzene	ND<788	2.0
Hexachlorobutadiene	ND<788	0.5
2,4,6-Trichlorophenol	ND<788	2.0
2,4,5-Trichlorophenol	ND<788	400.0
2,4-Dinitrotoluene	ND<788	0.13
Hexachlorobenzene	ND<788	0.13
Pentachlorophenol	ND<3150	100.0
TCLP 8080 Pesticides *	Analyst : JAK	Notebook Reference : 93-124-117
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/21/95
Compounds Detected	Results	Date Extracted :
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008
Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<5.0	0.5
TCLP Herbicides *	Analyst : JAK	Notebook Reference : 93-124-117
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/21/95
Compounds Detected	Results	Date Extracted :
-----	-----	-----

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86850

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	

-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

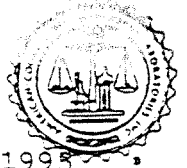
QC NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 87018

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1732
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Pyridine	ND<1	5.0
o-Cresol	ND<1	200.0
p-Cresol/m-Cresol	ND<1	200.0
Hexachloroethane	ND<1	3.0
Nitrobenzene	ND<1	2.0
Hexachlorobutadiene	ND<1	0.5
2,4,6-Trichlorophenol	ND<1	2.0
2,4,5-Trichlorophenol	ND<1	400.0
2,4-Dinitrotoluene	ND<1	0.13
Hexachlorobenzene	ND<1	0.13
Pentachlorophenol	ND<4	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	
TCLP 3080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1568
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/14/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<0.1	0.4
Heptachlor	ND<0.1	0.008
Heptachlor Epoxide	ND<0.1	0.008
* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.		
** SURROGATES DILUTED OUT.		

For questions regarding this report, please call and ask for Customer Services.

CC :

QC 1

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000138



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 87018

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<0.1	0.02
Methoxychlor	ND<0.1	10.0
Chlordane	ND<0.1	0.03
Toxaphene	ND<1.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	**	
Decachlorobiphenyl	**	
TCLP Herbicides	Analyst : SMB	Notebook Reference : 94-171-102
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<0.12	10.0
Silvex (2,4,5-TP)	ND<0.02	1.0

ac

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000139



ONE RESEARCH CIRCLE SEMIVOLATILES TELEPHONE (607) 565-3500

WAVERLY, NY 14892-1532 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 87019

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

Table with 2 columns: SAMPLE SOURCE and DESCRIPTION. Includes details like SMS INSTRUMENTS 86849, TCLP EXTRACT ORGANIC LAYE, and dates 06/27/95 and 06/29/95.

Table with 3 columns: Compound Name, Units, and Results. Lists various compounds like Pyridine, o-Cresol, p-Cresol/m-Cresol, etc., with their respective detection levels.

Table with 3 columns: Compound Name, Units, and Results. Lists pesticides like Lindane, Heptachlor, and Heptachlor Epoxide.

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.
** SURROGATES WERE DILUTED OUT.
*** SURROGATES NOT ADDED.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC [Signature]

NY 10252 PA 68180 NJ 73158 EPA NY 033

Approved by: [Signature] QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000140
Watertown, NY



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 87019

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-401
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1769.D
 Acq Time : 13 Jul 95 4:49 pm
 Sample : 87019,10X
 Misc : AEC TCLP,7/5/95
 Quant Time: Jul 13 17:37 1995

Operator: P. DRUSON
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.21	152	1764689	40.00	UG/ML	-0.26
19) NAPHTHALENE-D8	15.45	136	5773850	40.00	UG/ML	-0.27
34) ACENAPHTHENE-D10	19.97	164	2687500	40.00	UG/ML	-0.29
54) PHENANTHRENE-D10	23.82	188	3784856	40.00	UG/ML	-0.30
67) CHRYSENE-D12	30.65	240	1970135	40.00	UG/ML	-0.35
76) PERYLENE-D12	34.56	264	1741784	40.00	UG/ML	-0.36

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	0.00	99	0	0.00	UG/ML	0.00%
20) NITROBENZENE-D5	0.00	82	0	0.00	UG/ML	0.00%
38) 2-FLUOROBIPHENYL	18.36	172	1605	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	27.99	244	7542	0.13	UG/ML	0.13%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
42) 2,6-DINITROTOLUENE	19.97	165	334956	15.47	UG/ML#	25

5ml sample → 100 ml MeCl₂

$$\begin{aligned}
 \text{det lim} &= \left(\frac{5 \text{ ug}}{\text{ml}} \right) \left(\frac{100 \text{ ml}}{5 \text{ ml}} \right) \left(\frac{1000 \text{ ul}}{100 \text{ ul}} \right) \left(\frac{1000 \text{ ng}}{1000 \text{ ng}} \right) \left(\frac{1 \text{ mg}}{1000 \text{ ug}} \right) \\
 &= \frac{1000 \text{ mg}}{\text{ml}} \cdot \frac{1 \text{ mg}}{\text{ml}} = 1000 \frac{\text{mg}}{\text{l}}
 \end{aligned}$$

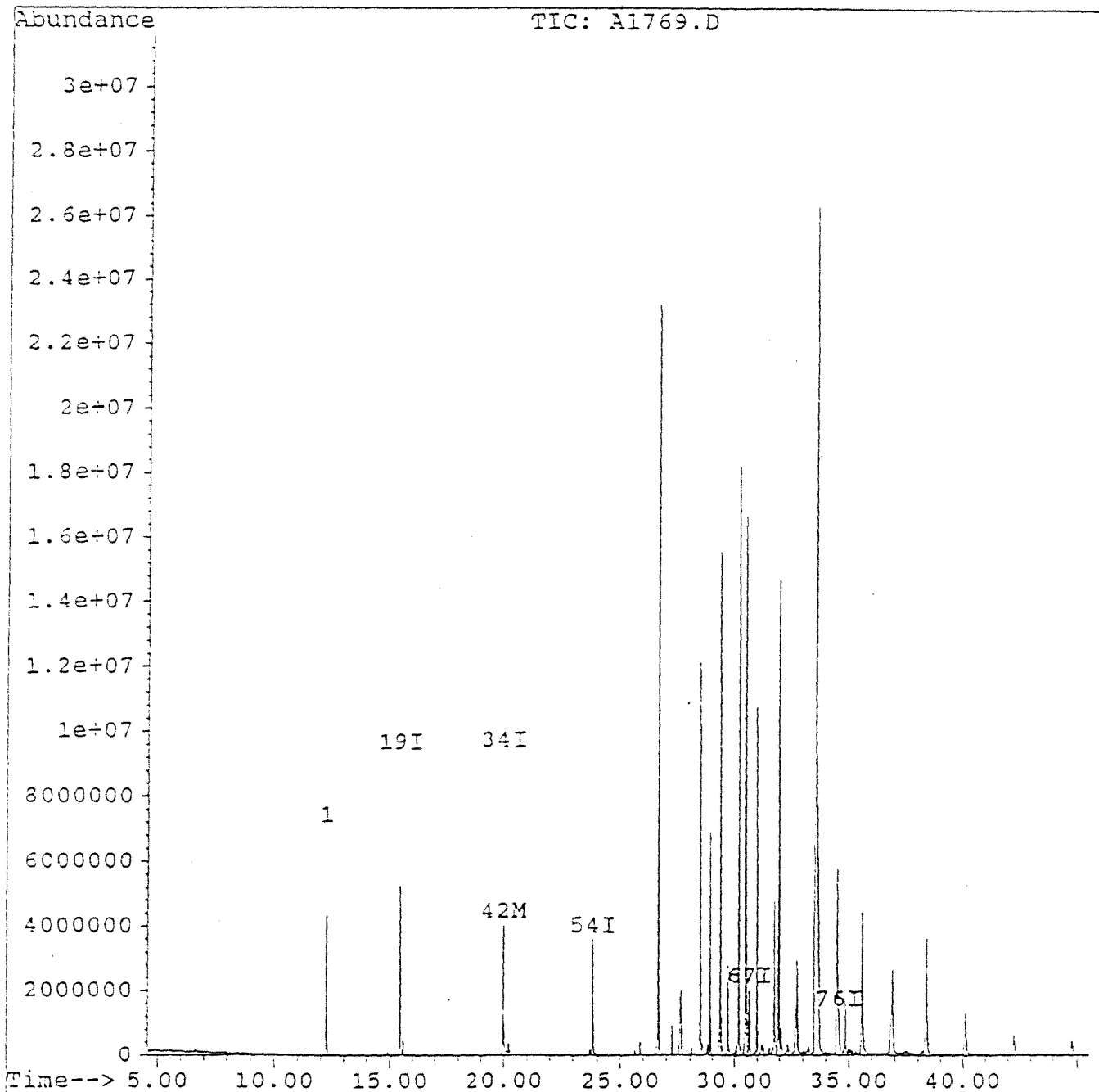
Quantitation Report

Data File : HPCHEM\1\DATA\A1769.D
Acq Time : 13 Jul 95 4:49 pm
Sample : 87019,10X
Misc : AEC TCLP,7/5/95
Quant Time: Jul 13 17:37 1995

2.2141

Operator: P. BRÜTSCH
Inst : GC/MS
Multiplr: 1.00

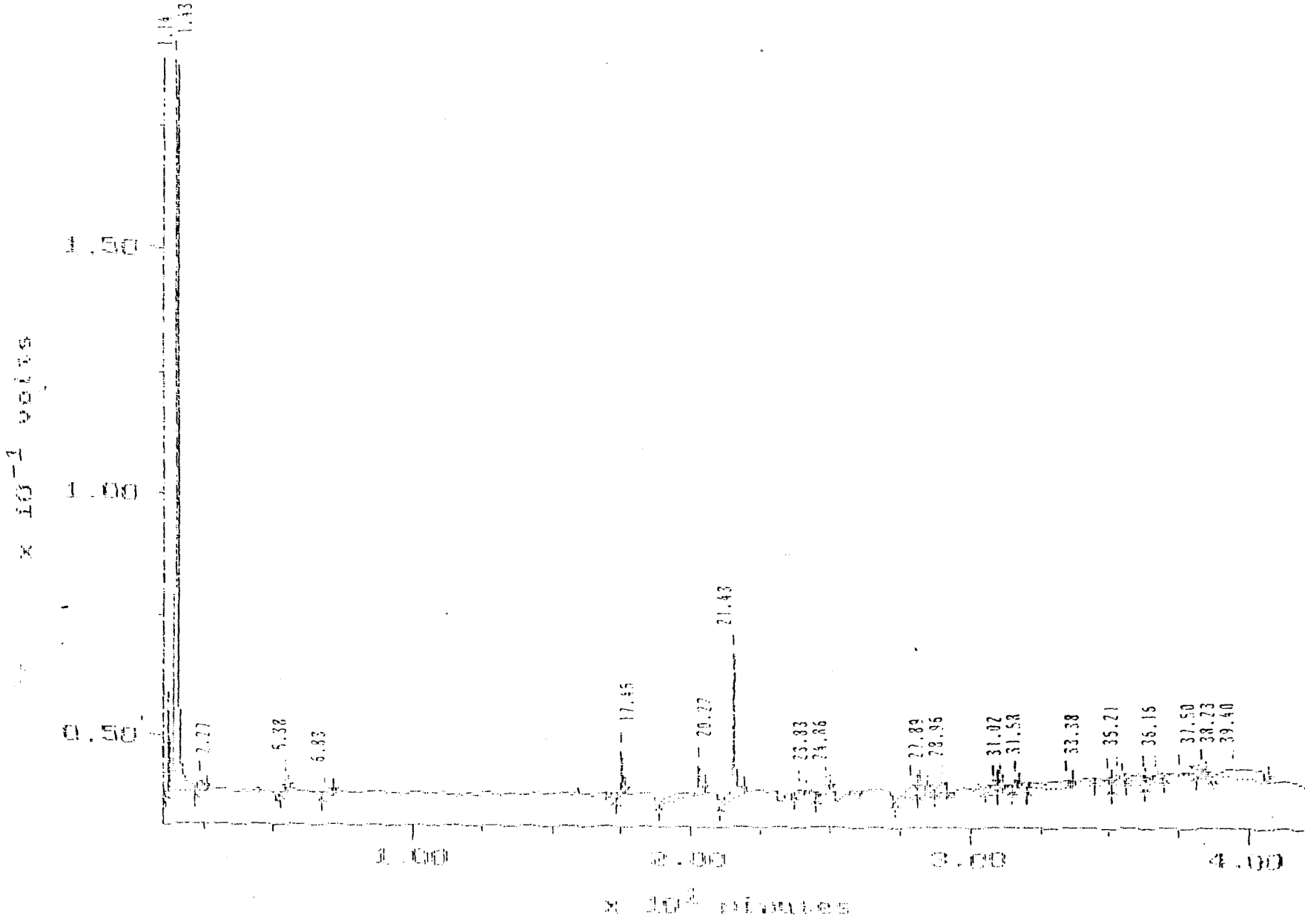
Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



000143

2-2142

Sample: 81019 1/10 Channel: ECO 3 Filename: 8397100
Acquired: 14-JUL-95 1:14 Method: C:\MAX\DATA3\HP20113 Operator: KSF
Ollation: 1 : 10.000



000144

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 3:02:33

SAMPLE: 87919 1/10

424 in Method: PEST PROC METH
 Acquired: 18-JUL-1995 1:14
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951566
 Index: Disk
 Dilution: 10.000

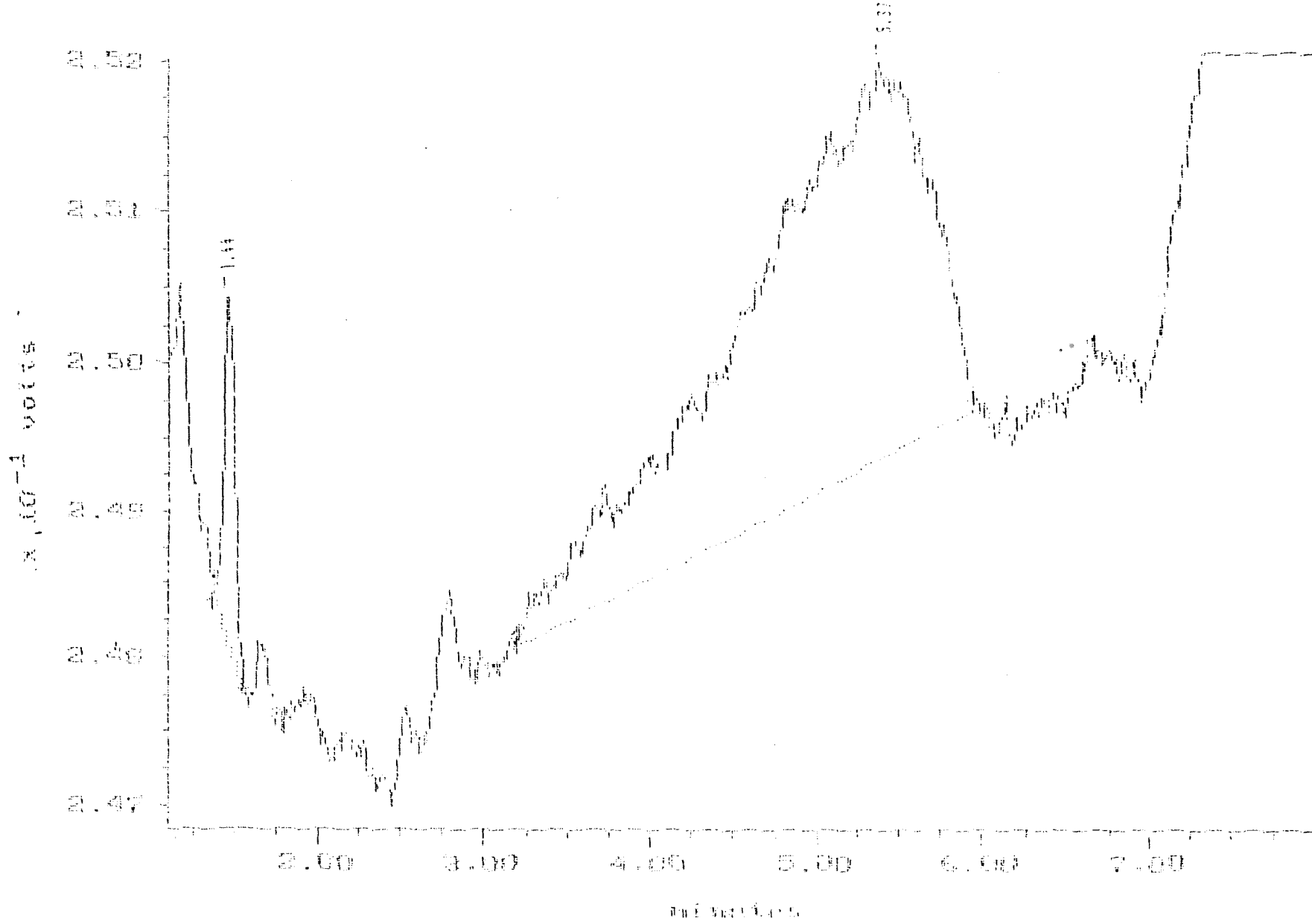
DETECTOR: ECD 3

FL#	Component Name	Original Conc (ug / l)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group 1	Peak Start (minutes)	Peak End (minutes)
			1.142	0.029	112161		1.057	1.200
			1.425	0.036	1098839		1.300	2.500
			2.267	0.053	21970		2.092	2.500
			5.333	0.137	11240		5.293	5.533
			6.333	0.173	13956		6.725	7.150
			17.450	0.443	43104		17.317	17.592
			20.217	0.513	84485		18.350	20.450
			21.433	0.544	245151		21.025	21.333
			23.333	0.595	14711		23.717	24.150
			24.358	0.621	11237		24.432	24.953
			27.392	0.709	49220		27.375	28.100
			28.200	0.716	5352		28.100	28.500
			28.953	0.725	40774		28.709	29.132
			30.309	0.782	15162		30.553	30.733
			31.017	0.787	10185		30.933	31.100
			31.575	0.801	15921		31.452	31.702
			33.375	0.847	87235		32.017	33.700
			34.900	0.896	21565		34.475	35.033
			35.208	0.894	19044		35.033	35.333
			36.150	0.918	43589		35.567	36.250
			36.567	0.929	20786		36.250	36.592
			37.500	0.957	24729		36.903	37.375
			38.233	0.970	17094		38.022	38.450
			39.400	1.000	187918		38.557	40.533
		0.000			2221577			

1 ml ⇒ 100 μl ⇒ 10 γ
 WDL 5.0 $\frac{mm}{l}$

2.2144

Sample: 87019 Channel: ECD 1 Filename: E195084
Acquired: 17-JUL-95 13:58 Method: C:\MAX\DATAZ\HR87-17 Operator: SK8
Dilution: 1 : 10.000



000146

XIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:29:17

SAMPLE: 87019

#25 in Method: SW 846 - 8150 Herbicides
Acquired: 17-JUL-1995 18:58
Rate: 2.0 points/sec
Duration: 8.000 minutes
Operator: SMB

Type: UNKN
Instrument: Instrument 2
Filename: E1950401
Index: Disk
Dilution: 10.000

DETECTOR: ECO 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.447	0.269	10450		1.367	1.553
			5.367	1.000	212736		3.200	5.942
TOTAL		0.000			223186			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86851

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 93-124-109
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/12/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<19.7	0.2
1,1-Dichloroethene	ND<19.7	0.7
Methyl Ethyl Ketone	0.33	200.0
Chloroform	ND<19.7	6.0
Carbon Tetrachloride	ND<19.7	0.5
Benzene	ND<19.7	0.5
1,2-Dichloroethane	ND<19.7	0.5
Trichloroethene	ND<19.7	0.5
Tetrachloroethene	ND<19.7	0.7
Chlorobenzene	ND<19.7	100.0
1,4-Dichlorobenzene	ND<19.7	7.5

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET ANALYTES.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 87020

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	ZHE EXTRACT AQUEOUS LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2438
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/11/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.1	0.2
1,1-Dichloroethene	ND<0.1	0.7
Methyl Ethyl Ketone	1.57	200.0
Chloroform	ND<0.1	6.0
Carbon Tetrachloride	ND<0.1	0.5
Benzene	ND<0.1	0.5
1,2-Dichloroethane	ND<0.1	0.5
Trichloroethene	ND<0.1	0.5
Tetrachloroethene	ND<0.1	0.7
Chlorobenzene	ND<0.1	100.0
1,4-Dichlorobenzene	ND<0.1	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	100	
Toluene-d8	98	
Bromofluorobenzene	100	

For questions regarding this report, please call and ask for Customer Services.

CC :

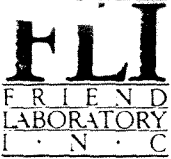
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

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000149



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 87021

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86849
DESCRIPTION	ZHE EXTRACT ORGANIC LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2412
Method : SW486/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<25	0.2
1,1-Dichloroethene	ND<25	0.7
Methyl Ethyl Ketone	ND<250	200.0
Chloroform	ND<25	6.0
Carbon Tetrachloride	ND<25	0.5
Benzene	ND<25	0.5
1,2-Dichloroethane	ND<25	0.5
Trichloroethene	ND<25	0.5
Tetrachloroethene	ND<25	0.7
Chlorobenzene	ND<25	100.0
1,4-Dichlorobenzene	ND<25	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	101	
Toluene-d8	95	
Bromofluorobenzene	102	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET ANALYTES.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

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Quantitation Report

2.2149

Data File : C:\HPCHEM\1\DATA\C2412.D
 Acq Time : 7 Jul 95 8:12 pm
 Sample : 4 87021 1:5000 zhe aec
 Misc : 86851 organic 1:10->meoh, 1:500->h2o
 Quant Time: Jul 10 10:13 1995

Operator: C. Ward
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\3-1-97.M
 Title : SW846/8240/8260
 Last Update : Thu Mar 02 14:21:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Integr (min)
1) Pentafluorobenzene	8.75	168	3208235	50.00	ug/l	0.00
32) 1,4-Difluorobenzene	10.51	114	2905875	50.00	ug/l	-0.02
39) Chlorobenzene-d5	15.83	117	2310382	50.00	ug/l	-0.01
58) 1,4-Dichlorobenzene-d4	19.40	152	1279241	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.43	113	1906383	50.50	ug/l	101.00%
41) Toluene-d8	13.35	98	2424443	47.70	ug/l	95.39%
59) 4-Bromofluorobenzene	17.71	95	1780983	50.85	ug/l	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.73	43	48936	29.49	ug/l	99
18) MTBE(2-methoxy-2-methyl-pr	4.80	73	62487	2.55	ug/l	96
33) Carbon Tetrachloride	8.74	117	286837	8.49	ug/l	99
39) 1,1-Dichloroethane	8.74	95	218738	8.77	ug/l	95
42) Toluene	13.46	92	79275	2.48	ug/l	94
48) 2-Hexanone	14.70	43	1242060	232.70	ug/l	98
53) p-Xylene/m-Xylene	16.22	106	87066	3.76	ug/l	95
62) 1,2,2-Trichloropropane	17.71	73	811199	10.99	ug/l	99
72) 4-Isopropyltoluene	19.31	119	114748	2.16	ug/l	99
76) 1,2-Dichlorobenzene	19.89	146	102402	3.32	ug/l	90

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2412.D

Acq Time : 7 Jul 95 8:12 pm

Sample : 4 87021 1:5000 zhe aec

Misc : 86851 organic 1:10->meoh, 1:500->h2o

Quant Time: Jul 10 10:13 1995

Operator: C. Werda

Inst : GC/MSD-C

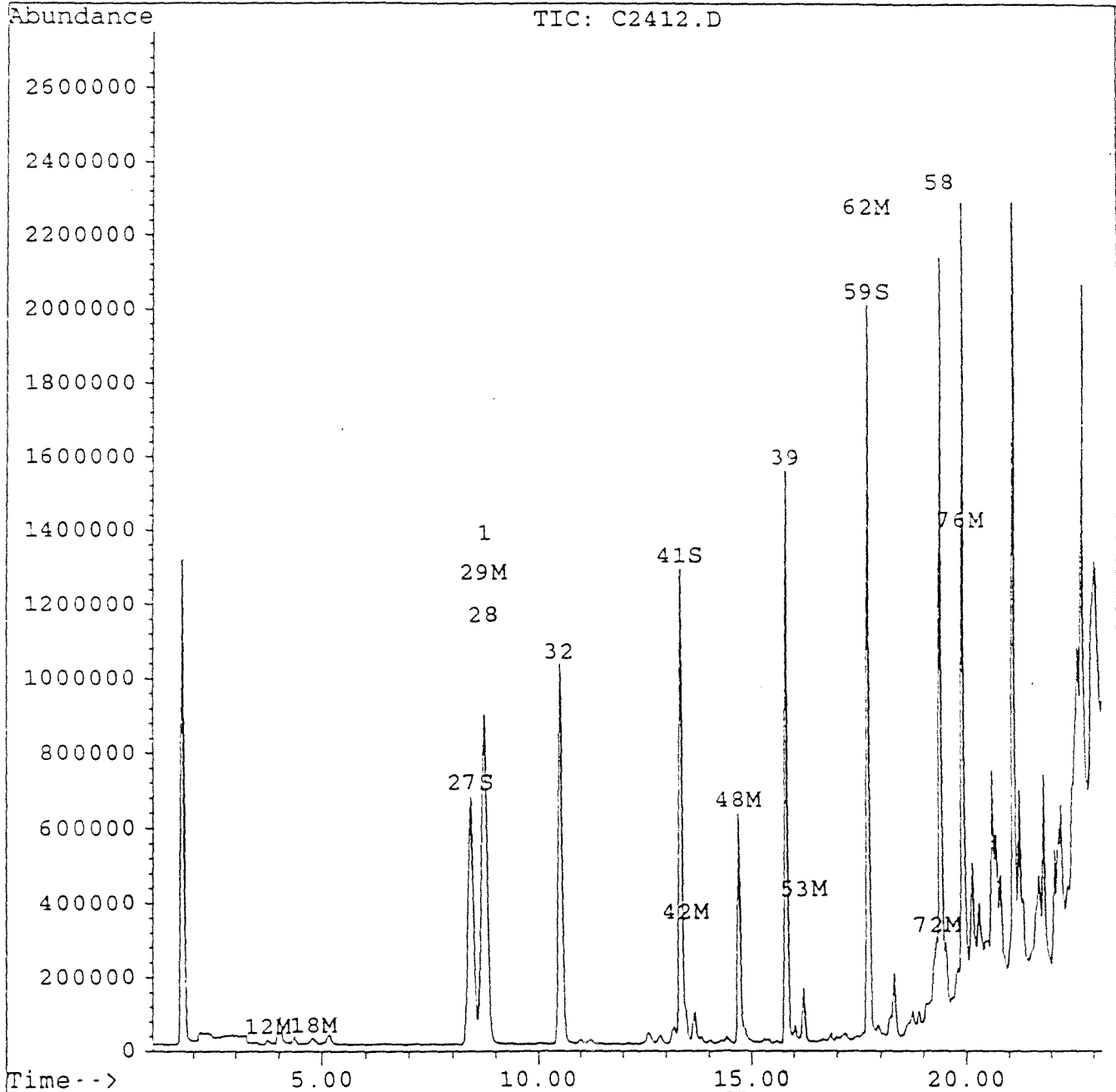
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\3-1-97.M

Title : SW846/8240/8260

Last Update : Thu Mar 02 14:21:08 1995

Response via : Multiple Level Calibration



000152



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86852

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G10 DRUM 4
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/07/95	EPA 1010	87-126-33	KJR
Sulfide Reactivity	160	mg/L	07/11/95	SW 846	94-221-16	BJH

VAPOR BURN AT 34 DEGREES C
 QUANTITY NOT SUFFICIENT TO ANALYZE FOR CORROSIVITY.

For questions regarding this report, please call Customer Services.

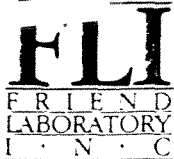
CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86852

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G10 DRUM 4
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-29	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-29	KJR

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

2.2153



DATE Jul 24, 1995

LAB SAMPLE ID : 86859

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 1311	95-094-07
D005	Barium	0.886	mg/L	100.0	07/21/95	EPA 1311	95-094-07
D006	Cadmium	0.252	mg/L	1.0	07/21/95	EPA 1311	95-094-07
D007	Chromium	0.227	mg/L	5.0	07/21/95	EPA 1311	95-094-07
D008	Lead	0.496	mg/L	5.0	07/21/95	EPA 1311	95-094-07
D009	Mercury	ND<0.01	mg/L	0.2	07/21/95	EPA 1311	95-094-07
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 1311	95-094-07
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 1311	95-094-07

For questions regarding this report, please call Customer Services.

cc :

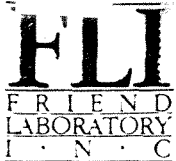
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
 QUALITY ASSURANCE

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000155



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 19, 1995

LAB SAMPLE ID : 87158

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D005	Barium	0.840	mg/L	100.0	07/18/95	EPA 6010	95-118-12
D006	Cadmium	ND<0.040	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D007	Chromium	0.231	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D008	Lead	0.744	mg/L	5.0	07/18/95	EPA 6010	95-118-12
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/18/95	EPA 6010	95-118-12
D011	Silver	ND<0.060	mg/L	5.0	07/18/95	EPA 6010	95-118-12

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-8500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 87022

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
0004	Arsenic	ND<0.300	mg/L	5.0	07/21/95	EPA 6010	95-118-14
0005	Barium	0.397	mg/L	100.0	07/21/95	EPA 6010	95-118-14
0006	Cadmium	0.300	mg/L	1.0	07/21/95	EPA 6010	95-118-14
0007	Chromium	0.226	mg/L	5.0	07/21/95	EPA 6010	95-118-14
0008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
0009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
0010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
0011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
 QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86858

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

* INSUFFICIENT AQUEOUS LAYER FOR TCLP-8270, TCLP-8150, AND TCLP-8080 ANALYSES. ANALYSES REPORTED ON ORGANIC LAYER ONLY. SEE FL# 87022

For questions regarding this report, please call and ask for Customer Services.

cc :

QC

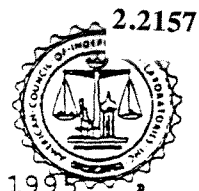
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 87022

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1785
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<100	5.0
o-Cresol	ND<100	200.0
p-Cresol/m-Cresol	ND<100	200.0
Hexachloroethane	ND<100	3.0
Nitrobenzene	ND<100	2.0
Hexachlorobutadiene	ND<100	0.5
2,4,6-Trichlorophenol	ND<100	2.0
2,4,5-Trichlorophenol	ND<100	400.0
2,4-Dinitrotoluene	ND<100	0.13
Hexachlorobenzene	ND<100	0.13
Pentachlorophenol	ND<4000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1560
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008
**SURROGATE NOT ADDED PER METHOD,3580, HAZARDOUS WASTE DILUTION.		
*** SURROGATES NOT ADDED.		

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 87022

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-396
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

Approved by:

NY 10252 PA 68180 NJ 73168 EPA NY 033

QUALITY ASSURANCE

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000160

Quantitation Report

2.2159

Data File C:\HPCHEM\1\DATA\A1785.D
 Acq Time : 17 Jul 95 8:43 pm
 Sample : 87022
 Misc : TCLP8270 7/6 AEC 5ML->100ML
 Quant Time: Jul 17 21:31 1995

Operator: DIANE BOZE
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 3270 BNA TARGET COMPOUNDS
 Last Update :- Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
1) 1,4-DICHLOROBENZENE-D4	12.25	152	1933669	40.00	UG/ML	-0.22
19) NAPHTHALENE-D8	15.49	136	6238363	40.00	UG/ML	-0.22
34) ACENAPHTHENE-D10	20.04	164	3461954	40.00	UG/ML	-0.23
54) PHENANTHRENE-D10	23.88	188	4337772	40.00	UG/ML	-0.25
67) CHRYSENE-D12	30.93	240	3068954	40.00	UG/ML	-0.07
76) PERYLENE-D12	34.98	264	1480935	40.00	UG/ML	0.06

System Monitoring Compounds	R.T.	Q Ion	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	11.76	99	5095	0.07	UG/ML	0.03%
20) NITROBENZENE-D5	13.73	82	25778	0.40	UG/ML	0.40%
38) 2-FLUOROBIPHENYL	18.40	172	2722	0.03	UG/ML	0.03%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	28.68	244	87486	0.98	UG/ML	0.98%

Target Compounds	R.T.	Q Ion	Response	Conc	Units	Qvalue
21) NITROBENZENE	14.01	77	160394	2.43	UG/ML#	43
42) 2,6-DINITROTOLUENE	20.04	165	416349	14.93	UG/ML#	24
65) DI-N-BUTYL PHTHALATE	25.50	149	1284936	6.28	UG/ML	98
66) FLUORANTHENE	26.76	202	137022	1.18	UG/ML#	1
68) BENZIDINE	27.68	184	410271	13.17	UG/ML#	1
71) BUTYLBENZYL PHTHALATE	29.84	149	265015	2.25	UG/ML#	28
72) 3,3-DICHLOROBENZIDINE	31.33	252	21032	1.06	UG/ML#	26
74) BIS-2-ETHYLHEXYL PHTHALATE	30.95	149	1335236	8.79	UG/ML#	72
80) BENZO(A)PYRENE	35.14	252	390247	9.28	UG/ML#	72

Sms → 100 ml dil'n

$$\left(\frac{5\mu\text{g}}{\text{ml}}\right) \left(\frac{1000\text{ml}}{1}\right) \left(\frac{1\text{mg}}{1000\mu\text{g}}\right) \left(\frac{100}{5\text{ml}}\right) = \frac{100\text{mg}}{1}$$

*Alum → Not Added
 Not Added
 Added per method 3580
 per Jamie*

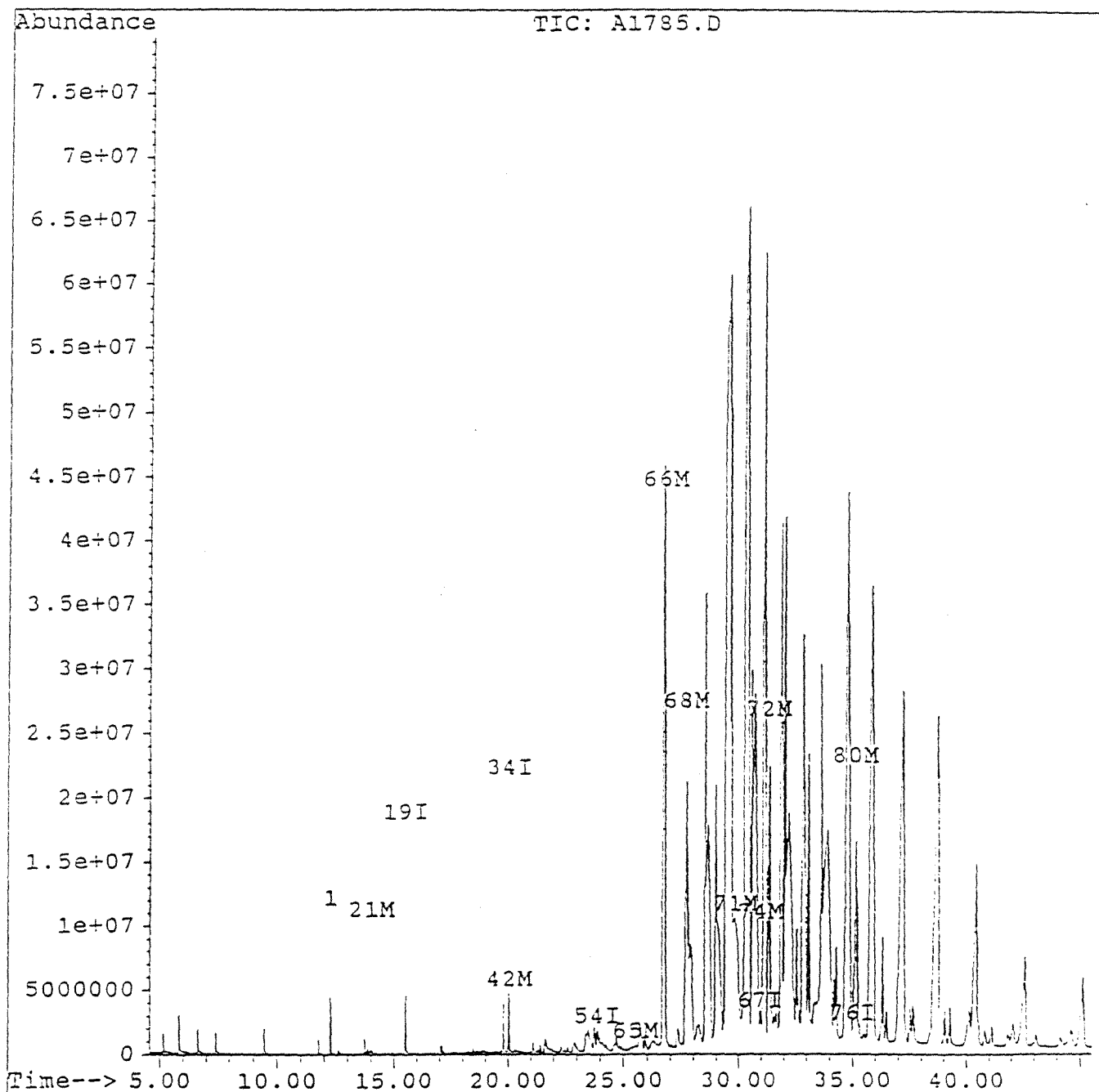
3270

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1785.D
Acq Time : 17 Jul 95 8:43 pm
Sample : 87022
Misc : TCLP8270 7/6 AEC 5ML->100ML
Quant Time: Jul 17 21:31 1995

Operator: DIXON BOZE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



Sample: 87023 1710

Channel: ECD 3

Filename: E3951560

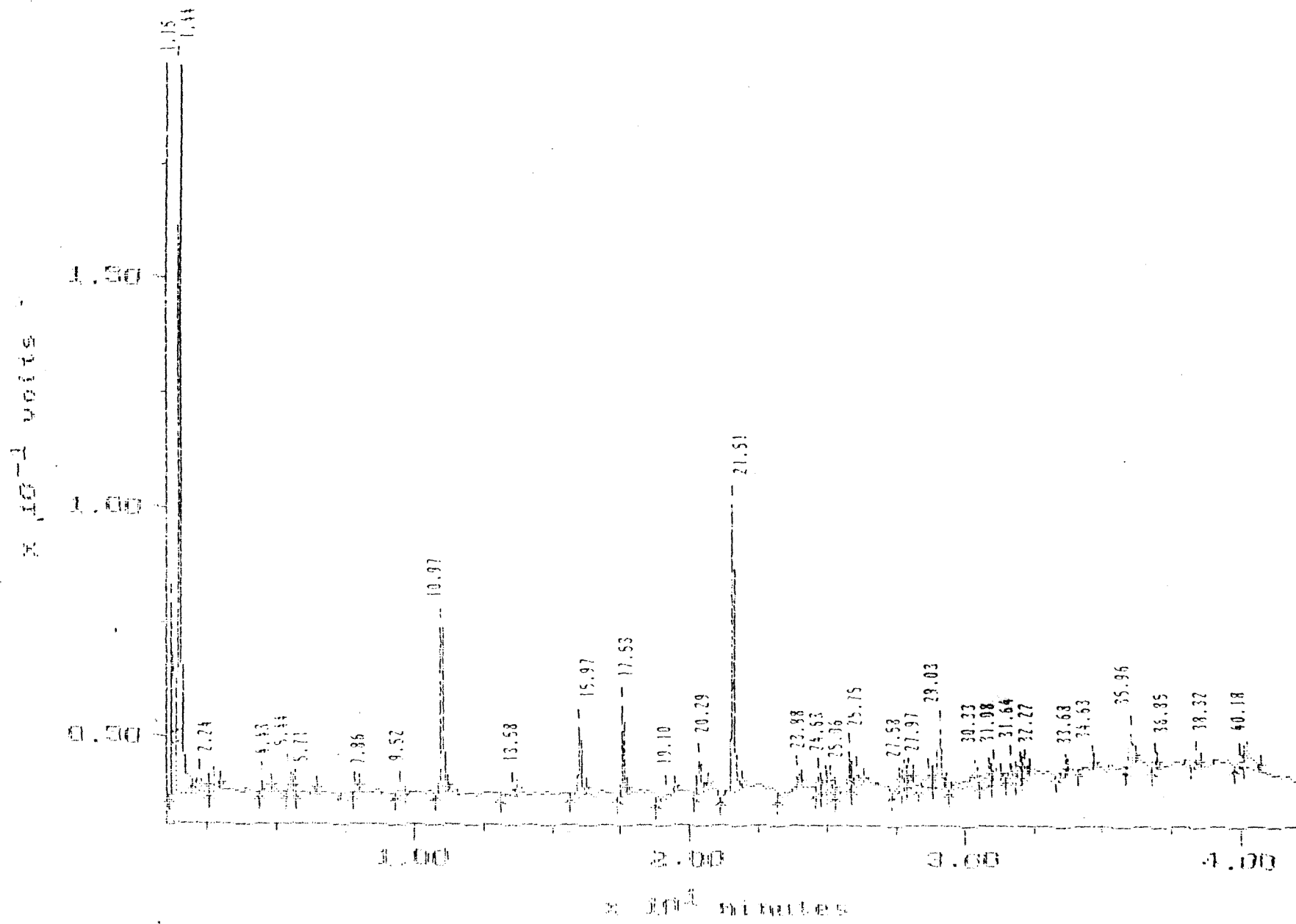
2.2161

Acquired: 13-JUL-95 20:47

Method: C:\MAX\DATA3\HP20713

Operator: KKF

Dilution: 1 : 10.000



MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 13-JUL-1995 3:00:47

SAMPLE: 87072 1/10

#13 in Method: PEST PROC METH

Acquired: 13-JUL-1995 20:47

Rate: 2.0 points/sec

Duration: 47.000 minutes

Operator: KKF

Type: UHXX

Instrument: Instrument 3

Filename: E3951560

Index: Disk

Dilution: 10.000

DETECTOR: SCO 3

Flt	Component Name	Original Conc (ng / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.150	0.029	283819		1.075	1.317
			1.442	0.036	1154635		1.317	2.525
			2.242	0.056	193870		1.983	2.517
			2.717	0.068	10316		2.525	2.992
			4.433	0.110	14347		4.250	4.800
			5.442	0.135	16105		5.333	5.553
			5.708	0.142	12126		5.650	6.425
			7.353	0.196	919		7.367	7.992
			9.517	0.237	19990		9.275	9.553
			10.967	0.273	235724		10.767	11.253
			13.575	0.338	15775		13.117	13.750
			15.967	0.397	97303		15.517	16.223
			17.525	0.436	102616		17.367	17.632
			19.100	0.475	15673		18.725	19.432
			20.792	0.505	71454		20.133	20.675
			21.508	0.535	441939		21.075	21.917
			23.883	0.594	20893		23.150	24.067
			24.625	0.613	19912		24.533	24.753
			24.925	0.620	18537		24.753	24.992
			25.058	0.624	21683		24.992	25.750
			25.750	0.641	44162		25.250	25.767
			25.025	0.648	27018		25.367	26.767
			27.575	0.686	11264		27.092	27.650
			27.767	0.691	14086		27.650	27.667
			27.967	0.696	12467		27.867	28.100
			28.517	0.712	35727		28.325	28.333
			29.025	0.722	123999		28.783	29.733
			30.325	0.755	69656		29.392	30.433
			30.850	0.763	12314		30.575	30.533
			31.033	0.774	23086		30.933	31.317
			31.642	0.787	23804		31.500	31.842
			32.000	0.796	11716		31.842	32.117
			32.217	0.802	10334		32.117	32.350
			33.633	0.838	1214		33.333	33.733

000164

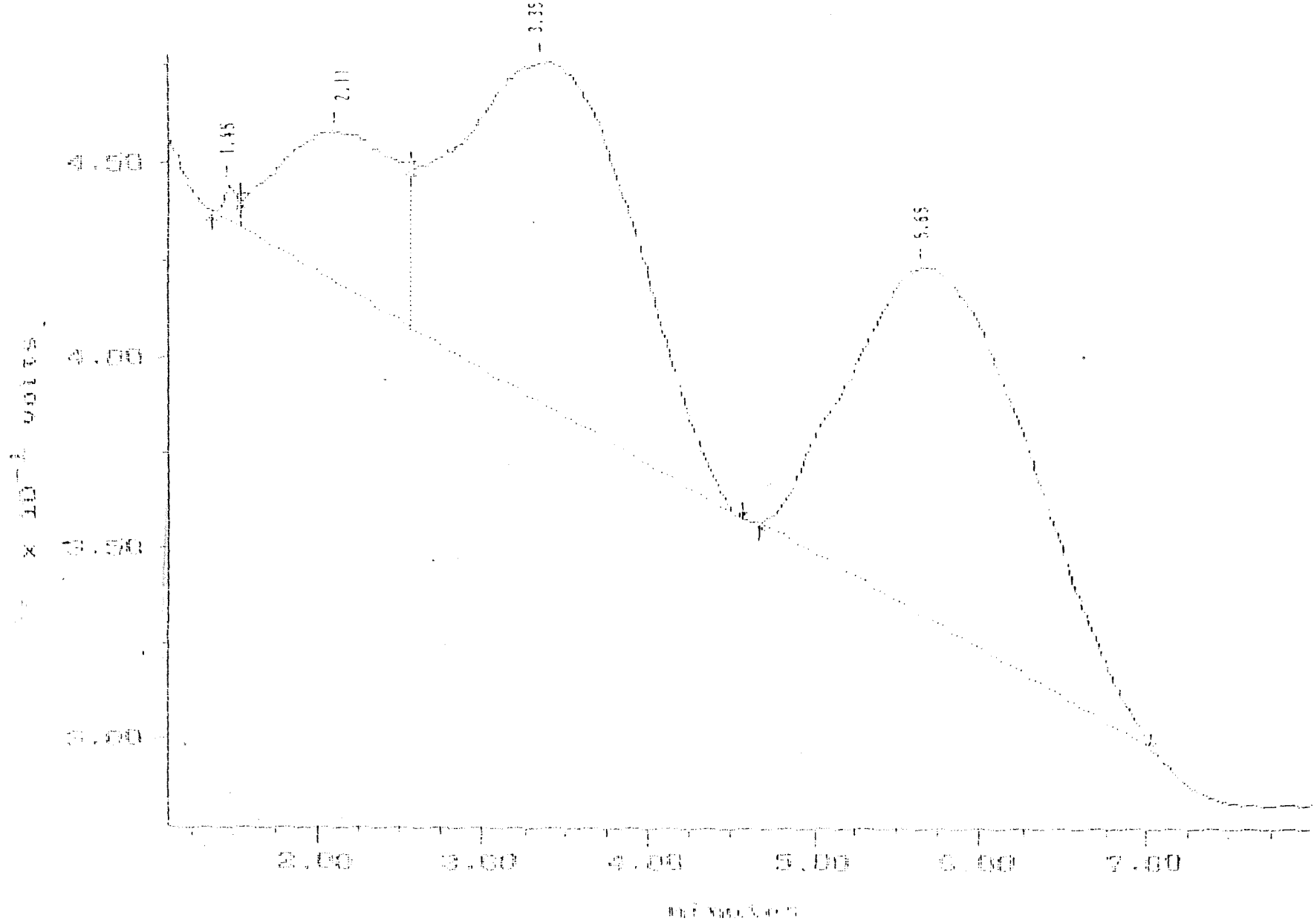
34.633	0.862	8475	34.125	34.733
35.958	0.895	43423	35.808	36.150
36.850	0.917	10034	36.733	36.992
38.317	0.954	11607	38.192	38.508
39.925	0.994	20262	39.725	40.042
40.183	1.000	53578	40.042	40.667

0.000

3171815

AL

Sample: 87072 Channel: F60 1 File name: E1950728
Acquired: 17-JUN-95 18:08 Method: C:\MAX\DATA\HRR7-17 Operator: SXR
Dilution: 1 : 10,000



MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:25:27

SAMPLE: 87022

#20 in Method: SW 846 - 3150 Herbicides
Acquired: 17-JUL-1995 13:08
Rate: 2.0 points/sec
Duration: 8.000 minutes
Operator: SM8

Type: UNKN
Instrument: Instrument 2
Filename: E1950396
Index: Disk
Dilution: 10.000

DETECTOR: ECO 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.450	0.257	55683		1.367	1.533
			2.108	0.373	1999740		1.533	2.575
			3.350	0.593	6504581		2.575	4.567
			5.550	1.000	6893275		4.567	7.325
TOTAL		0.000			15454229			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86854

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis
 Method : EPA 1311
 Compounds Detected

Analyst : CPW
 Units : MG/L
 Results

Notebook Reference : 93-124-106
 Date Analyzed : 07/11/95

Compounds Detected	Results	
Vinyl Chloride	ND<4.5	0.2
1,1-Dichloroethene	ND<4.5	0.7
Methyl Ethyl Ketone	389	200.0
Chloroform	ND<4.5	6.0
Carbon Tetrachloride	ND<4.5	0.5
Benzene	ND<4.5	0.5
1,2-Dichloroethane	ND<4.5	0.5
Trichloroethene	ND<4.5	0.5
Tetrachloroethene	ND<4.5	0.7
Chlorobenzene	ND<4.5	100.0
1,4-Dichlorobenzene	ND<4.5	7.5

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF
 NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

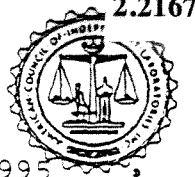
Approved by: Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



Volatilized ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 11, 1995

LAB SAMPLE ID : 87023

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	ZHE EXTRACT AQUEOUS LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2406
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<2.5	0.2
1,1-Dichloroethene	ND<2.5	0.7
Methyl Ethyl Ketone	198	200.0
Chloroform	ND<2.5	6.0
Carbon Tetrachloride	ND<2.5	0.5
Benzene	ND<2.5	0.5
1,2-Dichloroethane	ND<2.5	0.5
Trichloroethene	ND<2.5	0.5
Tetrachloroethene	ND<2.5	0.7
Chlorobenzene	ND<2.5	100.0
1,4-Dichlorobenzene	ND<2.5	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	99	
Toluene-d8	95	
Bromofluorobenzene	93	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

aej

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: *Lindsey Brown*

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Data File : C:\HPCHEM\1\DATA\C2406.D
 Acq Time : 7 Jul 95 5:11 pm
 Sample : 14 87023 1:500 zhe aec
 Misc : 86854 aqueous
 Quant Time: Jul 10 8:12 1995

Operator: C. Weir
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.75	168	3064383	50.00	ug/l	0.00
32) 1,4-Difluorobenzene	10.53	114	2759056	50.00	ug/l	0.00
39) Chlorobenzene-d5	15.82	117	2166831	50.00	ug/l	-0.02
58) 1,4-Dichlorobenzene-d4	19.39	152	1359008	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.44	113	1780942	49.39	ug/l	98.78%
41) Toluene-d8	13.35	98	2255972	47.32	ug/l	94.64%
59) 4-Bromofluorobenzene	17.71	95	1722721	46.30	ug/l	92.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.75	43	223901	141.25	ug/l	97
23) MEK(2-Butanone)	7.14	72	284562	396.56	ug/l	84
26) Carbon Tetrachloride	8.75	117	259869	345.1	ug/l	89
33) 1,1-Dichloroethane	8.75	95	201591	6.00	ug/l	50
40) MEK(1-Methyl-2-Butanone)	13.35	63	399512	59.59	ug/l	91
42) Toluene	13.47	92	183927	6.13	ug/l #	95
43) o-Xylene	14.71	106	198819	39.58	ug/l	73
52) Ethylbenzene	16.02	106	43061	2.56	ug/l	92
53) p-Xylene/m-Xylene	16.23	106	170587	7.85	ug/l	94
54) 1,2,3-Trichloropropane	17.71	95	791199	11.90	ug/l	79

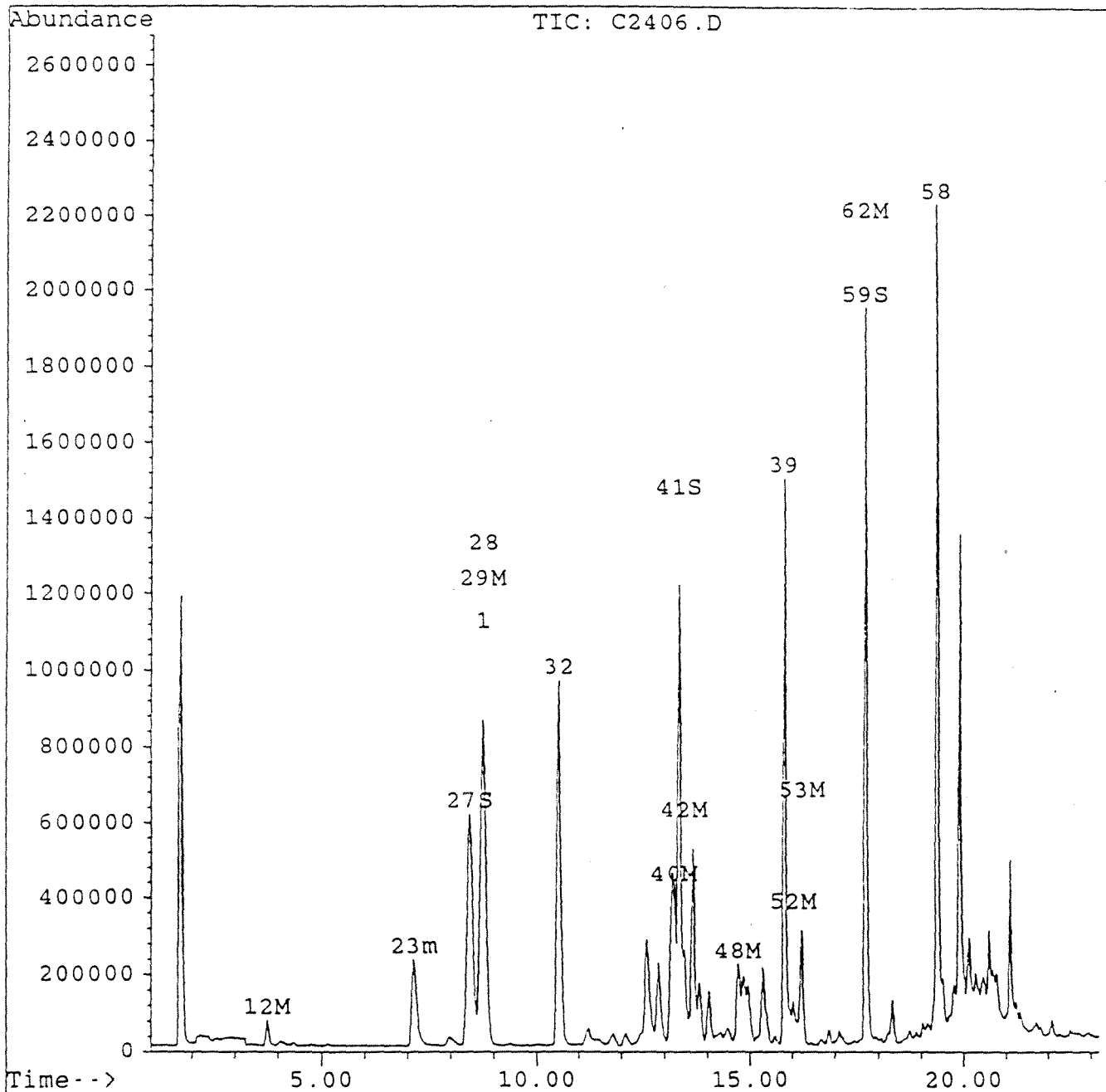
Quantitation Report

2.2169

Data File : C:\HPCHEM\1\DATA\C2406.D
Acq Time : 7 Jul 95 5:11 pm
Sample : 14 87023 1:500 zhe aec
Misc : 86854 aqueous
Quant Time: Jul 10 8:12 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 11, 1995

LAB SAMPLE ID : 87024

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86852
DESCRIPTION	ZHE EXTRACT ORGANIC LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2410
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<5	0.2
1,1-Dichloroethene	ND<5	0.7
Methyl Ethyl Ketone	432	200.0
Chloroform	ND<5	6.0
Carbon Tetrachloride	ND<5	0.5
Benzene	ND<5	0.5
1,2-Dichloroethane	ND<5	0.5
Trichloroethene	ND<5	0.5
Tetrachloroethene	ND<5	0.7
Chlorobenzene	ND<5	100.0
1,4-Dichlorobenzene	ND<5	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	104	
Toluene-d8	96	
Bromofluorobenzene	129 *	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF NON-TARGET COMPCUNDS.

* SURROGATE RECOVERY OUTSIDE QC ACCEPTANCE LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

2.2171

Data File: \HPCHEM\1\DATA\C2410.D
 Acq Time : 7 Jul 95 7:12 pm
 Sample : 2 87024 1:1000 zhe aec
 Misc : 86854 organic
 Quant Time: Jul 10 8:28 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.72	168	2902447	50.00	ug/l	-0.03
32) 1,4-Difluorobenzene	10.50	114	2660915	50.00	ug/l	-0.03
39) Chlorobenzene-d5	15.83	117	2014254	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.40	152	756251	50.00	ug/l	0.00

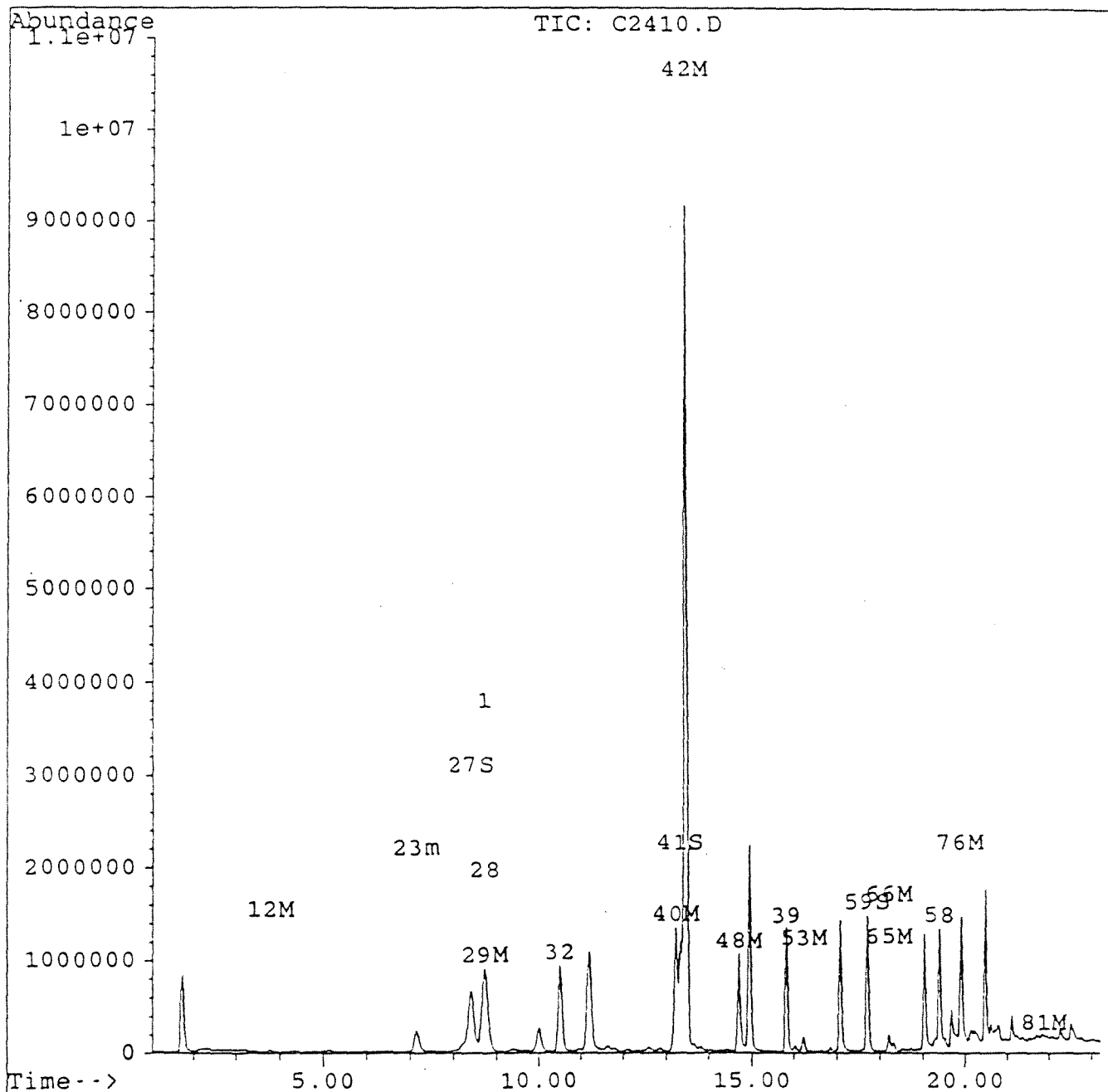
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.41	113	1783008	52.21	ug/l	104.41%
41) Toluene-d8	13.34	98	2132432	48.12	ug/l	96.24%
59) 4-Bromofluorobenzene	17.71	95	1332362	64.35	ug/l	128.69%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.78	43	69468	46.27	ug/l	97
23) MEK(2-Butanone)	7.14	72	293718	432.16	ug/l	88
28) Carbon Tetrachloride	8.72	117	2014254	50.00	ug/l	0
35) 1,1-Dichloroethene	9.78	75	167034	7.33	ug/l	54
40) MIBK(2-Methyl-2-butanone)	12.22	12	2875187	281.68	ug/l	98
42) Toluene	13.47	92	12359721	443.37	ug/l	91
48) 2-Hexanone	14.70	43	2042455	438.90	ug/l	93
53) p-Xylene/m-Xylene	16.23	106	117887	5.84	ug/l	92
65) 2-Chlorotoluene	18.23	91	263310	8.38	ug/l	94
66) 1-Chlorotoluene	18.23	91	263310	8.38	ug/l	94
76) 1,2-Dichlorobenzene	19.89	146	598923	32.89	ug/l	100
81) Napthalene	21.88	128	39553	3.87	ug/l	93

Data File : C:\HPCHEM\1\DATA\C2410.D
Acq Time : 7 Jul 95 7:12 pm
Sample : 2 87024 1:1000 zhe aec
Misc : 86854 organic
Quant Time: Jul 10 8:28 1995

Operator: C. W. ...
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083

2.2173



DATE Jul 12, 1995

LAB SAMPLE ID : 86855

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G11 DRUMS 36,37
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Corrosivity	Noncorrosi		07/05/95	EPA 1110	94-083-87	JAS
Cyanide Reactivity	ND<0.474	mg/Kg	07/07/95	SW846	95-124-2	erp
Ignitability	NON-IGNITA		07/10/95	EPA 1010	37-126-34	KJR
Sulfide Reactivity	15	mg/Kg	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

qd

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000175



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86855

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G11 DRUMS 36,37
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		07/01/95	EPA 1311	94-215-29	KJR
ZHE Extraction	*		07/01/95	EPA 1311	92-005-147	KJR
% Total Solids	100	percent	07/01/95	EPA 1311	94-215-29	KJR

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000176



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86856

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86855
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	ND<0.160	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	ND<0.040	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	0.082	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsay Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000177



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 86856

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86855
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270	Analyst : DMB	Notebook Reference : 94-248-1786
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<0.007	5.0
o-Cresol	ND<0.007	200.0
p-Cresol/m-Cresol	ND<0.007	200.0
Hexachloroethane	ND<0.007	3.0
Nitrobenzene	ND<0.007	2.0
Hexachlorobutadiene	ND<0.007	0.5
2,4,6-Trichlorophenol	ND<0.007	2.0
2,4,5-Trichlorophenol	ND<0.007	400.0
2,4-Dinitrotoluene	ND<0.007	0.13
Hexachlorobenzene	ND<0.007	0.13
1,2,4-Trichlorophenol	ND<0.035	100.0
Surrogate Recovery (%)		
2-Fluorophenol	3	
Phenol-d6	0 **	
Nitrobenzene-d5	39	
2-Fluorobiphenyl	48	
2,4,6-Tribromophenol	0 **	
Terphenyl-d14	71	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1569
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/14/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<0.05	0.4
Heptachlor	ND<0.05	0.008
Heptachlor Epoxide	ND<0.05	0.008

**SURROGATE RECOVERY OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.
*** SURROGATES WERE DILUTED OUT.

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000178



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 86856

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86855
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<0.05	0.02
Methoxychlor	ND<0.05	10.0
Chlordane	ND<0.05	0.03
Toxaphene	ND<0.5	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides	Analyst : SMB	Notebook Reference : 94-171-391
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<0.012	10.0
Silvex (2,4,5-TP)	ND<0.002	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

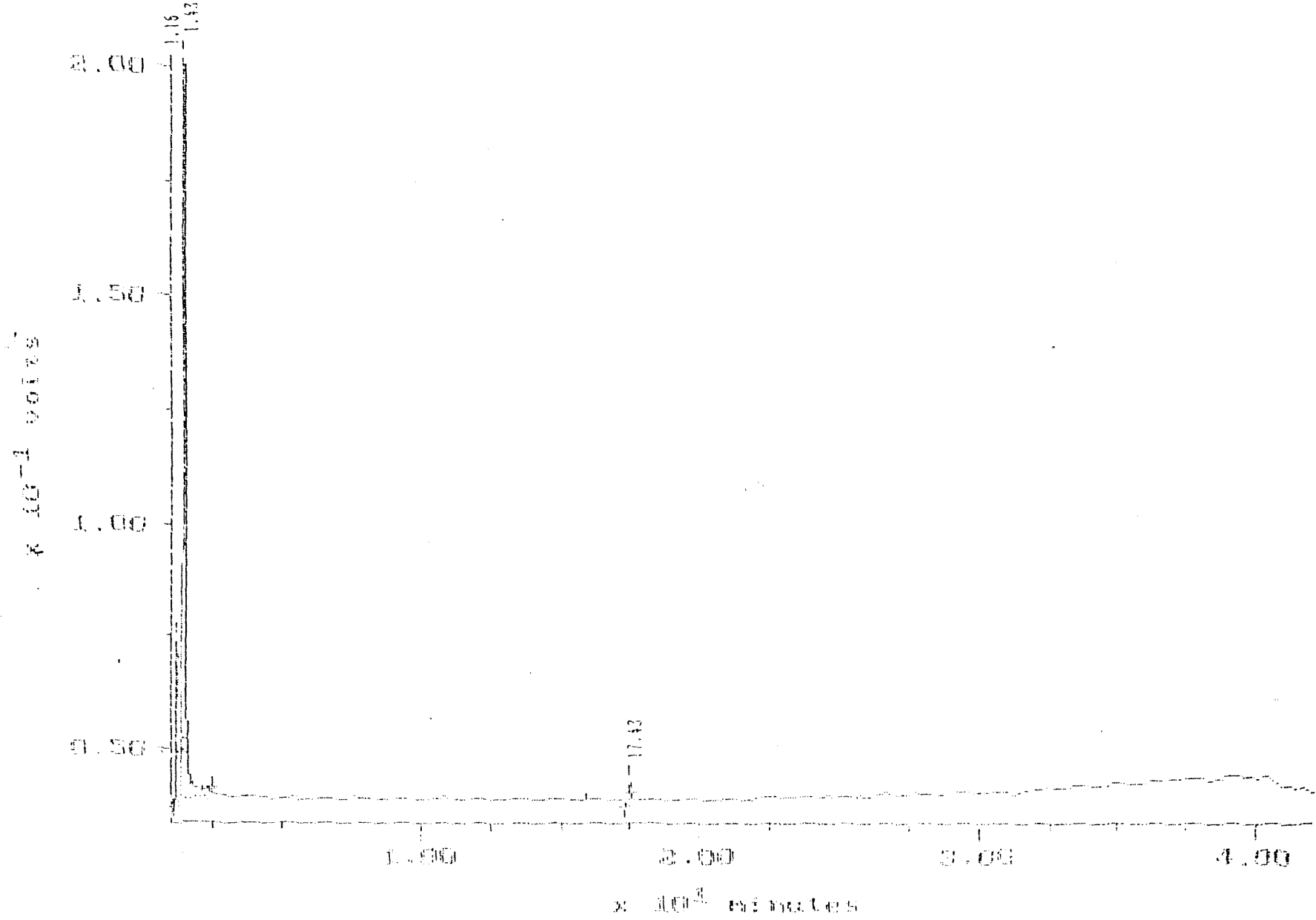
Approved by:

QUALITY ASSURANCE

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000179

Sample: 0056 1/100 Channel: E00 3 File name: F395158
Acquired: 14-JUL-95 3:28 Method: C:\MAX\DATA3\HP20712 Operator: KKF
Dilution: 1 : 100.000



A (c)1990 dynamic solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 3:03:24

SAMPLE: 36856 1/100

427 in Method: PEST PROC METH
Acquired: 14-JUL-1995 3:28
Rate: 2.0 points/sec
Duration: 42.000 minutes
Operator: XKF

Type: UNKN
Instrument: Instrument 3
Filename: E3951569
Index: Disk
Dilution: 100.000

DETECTOR: ECO 3

LT	Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.158	0.066	257753		1.057	1.308
			1.425	0.082	1234577		1.308	2.492
			17.433	1.000	16724		17.308	17.553
TAL		0.000			1519055			

$$\frac{10 \text{ mc}}{100 \text{ mc}} \times 0.005 \frac{\text{ug}}{\text{mc}} \times 100$$

NDL 0.05 $\frac{\text{mg}}{\text{L}}$



Volunteer ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 7, 1995

LAB SAMPLE ID : 86857

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86855
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis
 Method : SW846/8240/5030
 Compounds Detected

Analyst : CPW
 Units : MG/L
 Results

Notebook Reference : 95-106-2365
 Date Analyzed : 07/05/95

Vinyl Chloride	ND<1.25	0.2
1,1-Dichloroethene	ND<1.25	0.7
Methyl Ethyl Ketone	ND<12.5	200.0
Chloroform	ND<1.25	6.0
Carbon Tetrachloride	ND<1.25	0.5
Benzene	ND<1.25	0.5
1,2-Dichloroethane	ND<1.25	0.5
Trichloroethene	ND<1.25	0.5
Tetrachloroethene	ND<1.25	0.7
Chlorobenzene	ND<1.25	100.0
1,4-Dichlorobenzene	ND<1.25	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	99	
Toluene-d8	87	
Bromofluorobenzene	109	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATION OF
 NON-TARGET COMPOUNDS.

For questions regarding this report, please call and ask for Customer Services.

CC :

Approved by:

Lindsey Brown

NY 10252 PA 68180 NJ 73168 EPA NY 033

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

2.2181

Data File : C:\HPCHEM\1\DATA\C2365.D
 Acq Time : 5 Jul 95 4:19 pm
 Sample : 4 86857 1:250 zhe aec
 Misc : g11
 Quant Time: Jul 5 16:44 1995

Operator: C. Wera
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.77	168	2306903	50.00	ug/l	0.01
32) 1,4-Difluorobenzene	10.54	114	2016967	50.00	ug/l	0.01
39) Chlorobenzene-d5	15.84	117	1769270	50.00	ug/l	0.00
58) 1,4-Dichlorobenzene-d4	19.40	152	950512	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.46	113	1340269	49.37	ug/l	98.75%
41) Toluene-d8	13.36	98	1699416	43.66	ug/l	87.31%
59) 4-Bromofluorobenzene	17.72	95	1420694	54.59	ug/l	109.18%

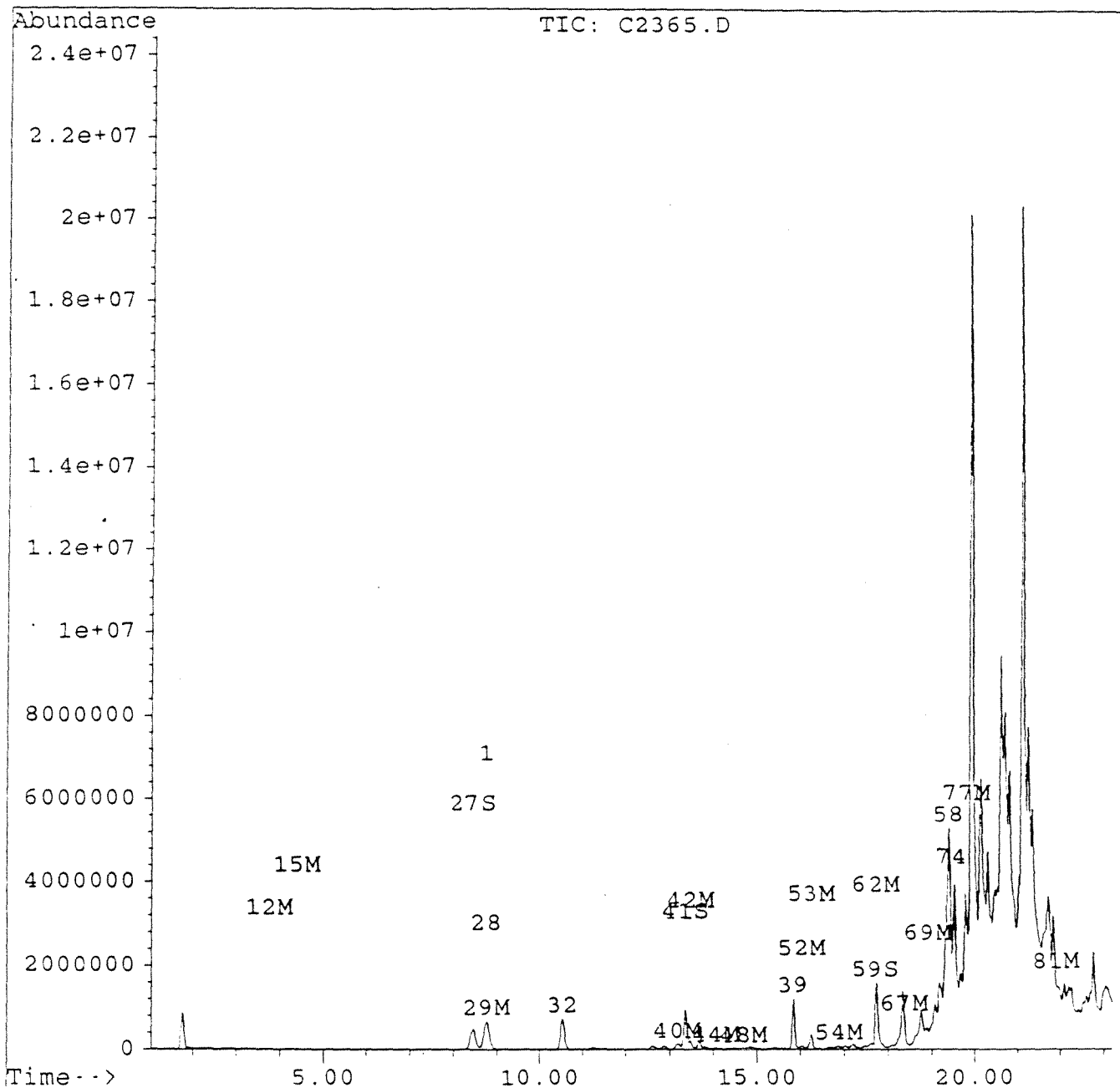
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone(2-Propanone)	3.75	43	18172	15.23	ug/l	90
15) Methylene Chloride	4.38	84	24017	2.26	ug/l	97
20) Carbon Tetrachloride	3.77	117	130000	6.50	ug/l	10
23) 1,1-Dichloroethene	3.77	75	104000	4.00	ug/l	10
26) MIBK(1-Methyl-2-pentanone)	13.17	43	30000	1.55	ug/l	10
42) Toluene	13.48	92	187910	7.67	ug/l	95
44) 1,1,2-Trichloroethane	14.05	97	93100	2.01	ug/l	10
48) Benzene	14.70	95	10000	1.44	ug/l	10
52) Ethylbenzene	16.03	106	35133	2.55	ug/l	81
53) p-Xylene/m-Xylene	16.24	106	173115	9.76	ug/l	88
54) o-Xylene	16.87	106	34870	2.00	ug/l	74
59) 1,2,3-Trichloropropane	17.70	75	100000	5.00	ug/l	10
67) 1,3,5-Trimethylbenzene	18.37	105	78112	2.23	ug/l	96
69) 1,2,4-Trimethylbenzene	18.91	105	164652	4.53	ug/l	95
74) 1,2,3-Trimethylbenzene	19.47	105	97183	3.00	ug/l	97
77) 1,2,4-Trichlorobenzene	19.35	91	100000	1.00	ug/l	10
81) Napthalene	21.88	128	97440	7.59	ug/l	97

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2365.D
Acq Time : 5 Jul 95 4:19 pm
Sample : 4 86857 1:250 zhe aec
Misc : g11
Quant Time: Jul 5 16:44 1995

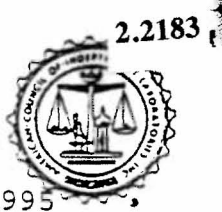
Operator: C. Weida
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86858

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G12 DRUM 19
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/10/95	EPA 1010	87-126-34	KJR
Sulfide Reactivity	600	mg/L	07/11/95	SW 846	94-221-16	BJH

QUANTITY NOT SUFFICIENT TO ANALYZE FOR CORROSIVITY.

For questions regarding this report, please call Customer Services.

CC :

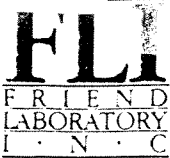
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

2.2184



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86858

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G12 DRUM 19
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-29	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-29	KJR

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 24, 1995

LAB SAMPLE ID : 86859

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.300	mg/L	5.0	07/21/95	EPA 1311	95-094-07
D005	Barium	0.720	mg/L	100.0	07/21/95	EPA 1311	95-094-07
D006	Cadmium	0.150	mg/L	1.0	07/21/95	EPA 1311	95-094-07
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 1311	95-094-07
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 1311	95-094-07
D009	Mercury	ND<0.01	mg/L	0.2	07/21/95	EPA 1311	95-094-07
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 1311	95-094-07
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 1311	95-094-07

For questions regarding this report, please call Customer Services.

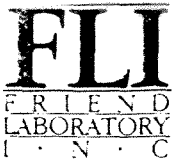
cc :

cc

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 87397

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	TCLP EXTRACT AQUEOUS LAYE by CLIENT
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	1.78	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.171	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

CC :

Approved by: Audrey Brown

NY 10252 PA 68180 NJ 73168 EPA NY 033

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 87040

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.300	mg/L	5.0	07/21/95	EPA 6010	95-113-1
D005	Barium	ND<0.160	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.139	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/12/95	EPA 7470	93-290-56
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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Albany, NY

Scranton, PA

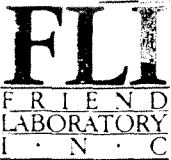
Jamestown, NY

Boston, MA

Syracuse, NY

Watertown, NY

000189



ONE RESEARCH CIRCLE Waverly, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86859

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

* INSUFFICIENT AQUEOUS LAYER FOR TCLP-8270, TCLP-8150, AND TCLP-8080 ANALYSES. ANALYSES REPORTED ON ORGANIC LAYER ONLY. SEE FL# 87040

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

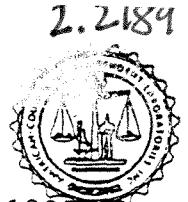
NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 87040

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1797
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/19/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<500	5.0
o-Cresol	ND<500	200.0
p-Cresol/m-Cresol	ND<500	200.0
Hexachloroethane	ND<500	3.0
Nitrobenzene	ND<500	2.0
Hexachlorobutadiene	ND<500	0.5
2,4,6-Trichlorophenol	ND<500	2.0
2,4,5-Trichlorophenol	ND<500	400.0
2,4-Dinitrotoluene	ND<500	0.13
Hexachlorobenzene	ND<500	0.13
Pentachlorophenol	ND<2000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1556
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.
 *** SURROGATES NOT ADDED.
 ** SURROGATES NOT ADDED PER METHOD 3580, HAZARDOUS WASTE DILUTION

For questions regarding this report, please call and ask for Customer Services.

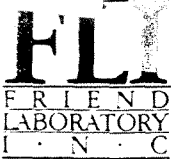
CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE SEMIVOLATILES
TELEPHONE (607) 565-3500

WAVERLY, NY 14892-1532
FAX (607) 565-4083



DATE Jul 26, 1995

LAB SAMPLE ID : 87040

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	TCLP EXTRACT ORGANIC LAYE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-398
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1797.D
 Acq Time : 19 Jul 95 10:56 am
 Sample : 82040, 10x
 Misc : TCLPBNA, 7/6 AEC
 Quant Time: Jul 19 11:43 1995

2.2191

Operator: [unclear]
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update :- Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.16	152	2275697	40.00	UG/ML	-0.31
19) NAPHTHALENE-D8	15.39	136	6814157	40.00	UG/ML	-0.32
34) ACENAPHTHENE-D10	19.93	164	3513907	40.00	UG/ML	-0.33
54) PHENANTHRENE-D10	23.78	188	4336165	40.00	UG/ML	-0.34
67) CHRYSENE-D12	30.63	240	2137613	40.00	UG/ML	-0.37
76) PERYLENE-D12	34.53	264	1603303	40.00	UG/ML	-0.39

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	0.00	99	0	0.00	UG/ML	0.00%
20) NITROBENZENE-D5	0.00	82	0	0.00	UG/ML	0.00%
38) 2-FLUOROBIPHENYL	18.30	172	2046	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	27.96	244	2837	0.05	UG/ML	0.05%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
42) 2,6-DINITROTOLUENE	19.93	165	430577	15.21	UG/ML#	25

5ml → 50 ml

$$\left(\frac{5\mu\text{g}}{\text{ml}}\right) \left(\frac{1000\text{ml}}{1}\right) \left(\frac{1\text{mg}}{1000\mu\text{g}}\right) \left(\frac{50\text{ml}}{5\text{ml}}\right)$$

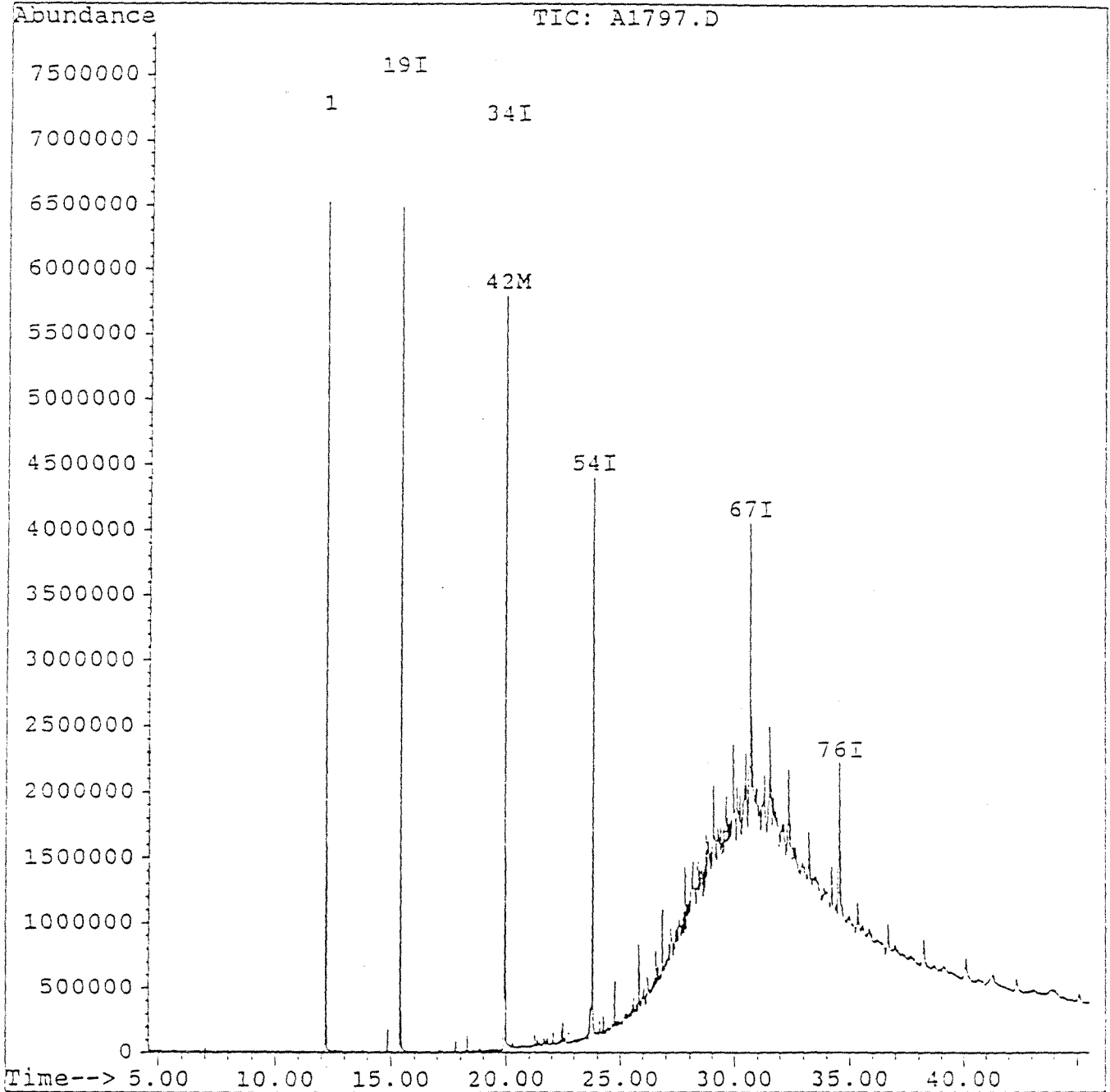
$$= 50\text{mg} \times 10 = 500$$

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A1797.D
Acq Time : 19 Jul 95 10:56 am
Sample : 82040, 10x
Misc : TCLPBNA, 7/6 AEC
Quant Time: Jul 19 11:43 1995

Operator: DILLON BOZE
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



MAXIMA 820 CUSTOM REPORT

Printed: 13-JUL-1995 7:59:35

SAMPLE: 37040 1/10

#14 in Method: PEST PROC METH
 Acquired: 13-JUL-1995 17:44
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951556
 Index: Disk
 Dilution: 10.000

DETECTOR: ECD 3

RT	Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.167	0.029	279653		1.092	1.333
			1.458	0.036	1170371		1.333	2.550
			2.317	0.058	12694		2.200	2.550
			5.500	0.137	23787		5.392	5.652
			7.200	0.191	9690		7.500	7.817
			9.750	0.242	8543		9.542	10.150
			12.125	0.301	14125		12.033	12.792
			13.433	0.334	31336		13.292	13.592
			15.303	0.393	24947		15.503	15.158
			16.483	0.409	15020		16.152	16.533
			17.050	0.423	18517		16.917	17.133
			17.517	0.437	174650		17.467	18.058
			19.942	0.495	10406		19.567	20.042
			20.533	0.510	18433		20.400	20.767
			21.350	0.530	44009		20.357	21.725
			22.142	0.550	31356		22.000	22.300
			22.675	0.563	26061		22.550	22.838
			23.000	0.571	32517		22.303	23.158
			23.833	0.592	19031		23.558	24.092
			25.253	0.627	16167		24.642	25.400
			25.742	0.639	53207		25.532	25.192
			25.842	0.642	53224		25.792	26.000
			27.142	0.674	30517		26.992	27.433
			32.442	0.806	188762		32.403	33.458
			35.767	0.888	55550		35.425	36.050
			37.742	0.937	19483		37.503	38.133
			39.525	0.981	13022		39.383	39.533
			40.275	1.000	22255		40.150	40.317
TOTAL		0.000			2474062			

1 ml Diluted to 100 ml $\Rightarrow 10 \times$

NOX 5.0 mg/l

$0.005 \frac{\mu\text{g}}{\text{ml}} \times 100 \times 10$

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MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:04:15

CE: 25855 1/100

#30 in Method: PFST PROC METH
 Acquired: 14-JUL-1995 5:41
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KKF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951572
 Index: Disk
 Dilution: 100.000

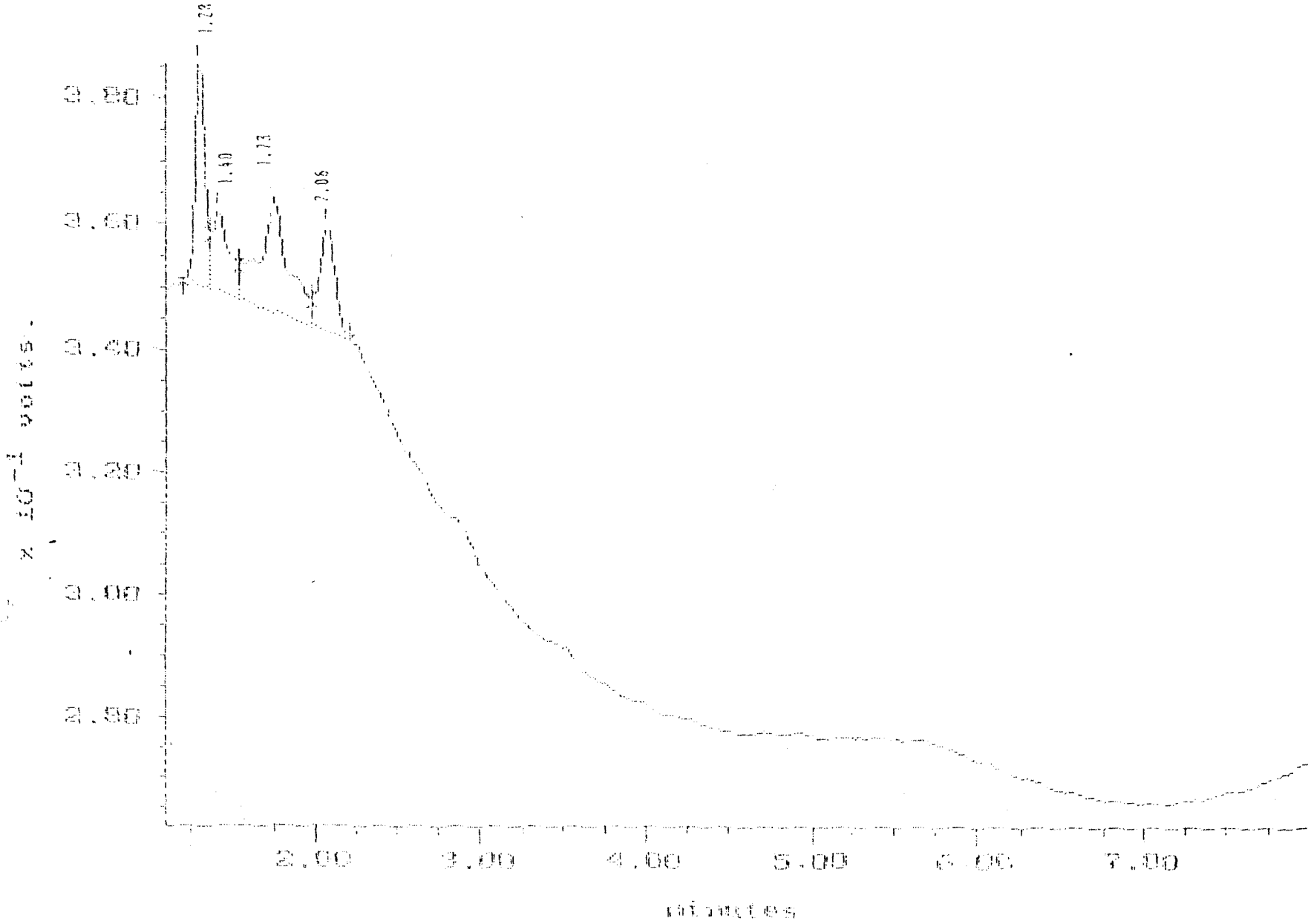
VECTOR: 500 3

Component Name	Original Conc (ug / L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
		1.150	0.044	188531		1.067	1.300
		1.433	0.054	1373514		1.300	2.500
		17.433	0.663	15113		17.303	17.553
		23.792	0.905	10189		21.353	23.900
		25.300	1.000	47657		25.133	25.733
	0.000			1635810			

$$\frac{10 \text{ ml}}{150 \text{ ml}} \times 0.005 \frac{\mu\text{g}}{\text{ml}} \times 100$$

NW C 0.03

Sample Name: Channel: E00 1
Acquired: 17-JUL-95 18:28 Method: C:\MAX\DATAZ\HR07-17
Operator: SM2
Oillation: 1 : 10.000



MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 3:26:59

SAMPLE: 87040

#22 in Method: SW 846 - 3150 Herbicides
 Acquired: 17-JUL-1995 18:28
 Rate: 2.0 points/sec
 Duration: 8.000 minutes
 Operator: SM8

Type: UNKN
 Instrument: Instrument 2
 Filename: E1950398
 Index: Disk
 Dilution: 10.000

DETECTOR: ECO 1

PK #	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.283	0.623	149683		1.203	1.353
			1.400	0.580	89363		1.353	1.542
			1.733	0.842	220566		1.542	1.767
			2.058	1.000	110930		1.967	2.200
TOTAL		0.000			571041			



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86860

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 93-124-108
Method : EPA 1311	Units : MG/L	Date Analyzed : 07/12/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.16	0.2
1,1-Dichloroethene	ND<0.16	0.7
Methyl Ethyl Ketone	ND<1.6	200.0
Chloroform	0.16	6.0
Carbon Tetrachloride	ND<0.16	0.5
Benzene	ND<0.16	0.5
1,2-Dichloroethane	ND<0.16	0.5
Trichloroethene	ND<0.16	0.5
Tetrachloroethene	ND<0.16	0.7
Chlorobenzene	0.16	100.0
1,4-Dichlorobenzene	0.33	7.5

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 87047

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	ZHE EXTRACT AQUEOUS LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2434
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/11/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.02	0.2
1,1-Dichloroethene	ND<0.02	0.7
Methyl Ethyl Ketone	ND<0.2	200.0
Chloroform	ND<0.02	6.0
Carbon Tetrachloride	ND<0.02	0.5
Benzene	ND<0.02	0.5
1,2-Dichloroethane	ND<0.02	0.5
Trichloroethene	ND<0.02	0.5
Tetrachloroethene	ND<0.02	0.7
Chlorobenzene	ND<0.02	100.0
1,4-Dichlorobenzene	ND<0.02	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	97	
Toluene-d8	97	
Bromofluorobenzene	90	

For questions regarding this report, please call and ask for Customer Services.

CC :

Approved by: Lindsey Brown
QUALITY ASSURANCE

NY 10252 PA 68180 NJ 73168 EPA NY 033

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Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 87042

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86858
DESCRIPTION	ZHE EXTRACT ORGANIC LAYER
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2435
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/11/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.23	0.2
1,1-Dichloroethene	ND<0.23	0.7
Methyl Ethyl Ketone	ND<2.3	200.0
Chloroform	0.25	6.0
Carbon Tetrachloride	ND<0.23	0.5
benzene	ND<0.23	0.5
1,2-Dichloroethane	ND<0.23	0.5
Trichloroethene	ND<0.23	0.5
Tetrachloroethene	ND<0.23	0.7
Chlorobenzene	0.24	100.0
1,4-Dichlorobenzene	1.27	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	94	
Toluene-d8	104	
Bromofluorobenzene	119	

TCLP ACTION LEVELS UNATTAINABLE DUE TO EXCESSIVE CONCENTRATIONS OF
NON-TARGET ANALYTES.

For questions regarding this report, please call and ask for Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown

QUALITY ASSURANCE

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2435.D
Acq Time : 11 Jul 95 4:33 pm
Sample : 16 87042 1:5 zhe aec
Misc : 86860 organic 0.9256g -> 10ml meoh
Quant Time: Jul 12 8:12 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\3-1-97.M
Title : SW846/8240/8260
Last Update : Thu Mar 02 14:21:08 1995
Response via : Multiple Level Calibration

Table with 7 columns: Internal Standards, R.T., QIon, Response, Conc, Units, Dev(Min). Rows include Pentaffluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5, and 1,4-Dichlorobenzene-d4.

Table with 7 columns: System Monitoring Compounds, R.T., QIon, Response, Conc, Units, %Recovery. Rows include Dibromofluoromethane, Toluene-d8, and 4-Bromofluorobenzene.

Table with 7 columns: Target Compounds, R.T., QIon, Response, Conc, Units, Qvalue. Contains a list of 25 compounds, many of which are crossed out with a thick black line.

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2435.D
 Acq Time : 11 Jul 95 4:33 pm
 Sample : 16 87042 1:5 zhe aec
 Misc : 86860.organic 0.9266g -> 10ml meoh
 Quant Time: Jul 12 8:12 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\3-1-97.M
 Title : SW846/8240/8260
 Last Update : Thu Mar 02 14:21:08 1995
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74) 1,2,3-Trimethylbenzene	19.46	105	292323	8.89	ug/l	98
76) 1,2-Dichlorobenzene	19.89	146	4514826	189.44	ug/l	98
77) o-Duylbenzene	19.92	101	112176	1.25	ug/l	98
78) DDCP(1,2-Dibromo-3-chlorop	20.77	79	10974	5.70	ug/l	98
79) 1,2,4-Trichlorobenzene	21.64	100	70907	1.03	ug/l	98
80) Hexachlorobutadiene	21.70	225	60522	5.20	ug/l	98
81) Naphthalene	21.80	100	101172	6.70	ug/l	98
82) 1,2,3-Trichlorobenzene	22.10	100	125145	12.50	ug/l	98

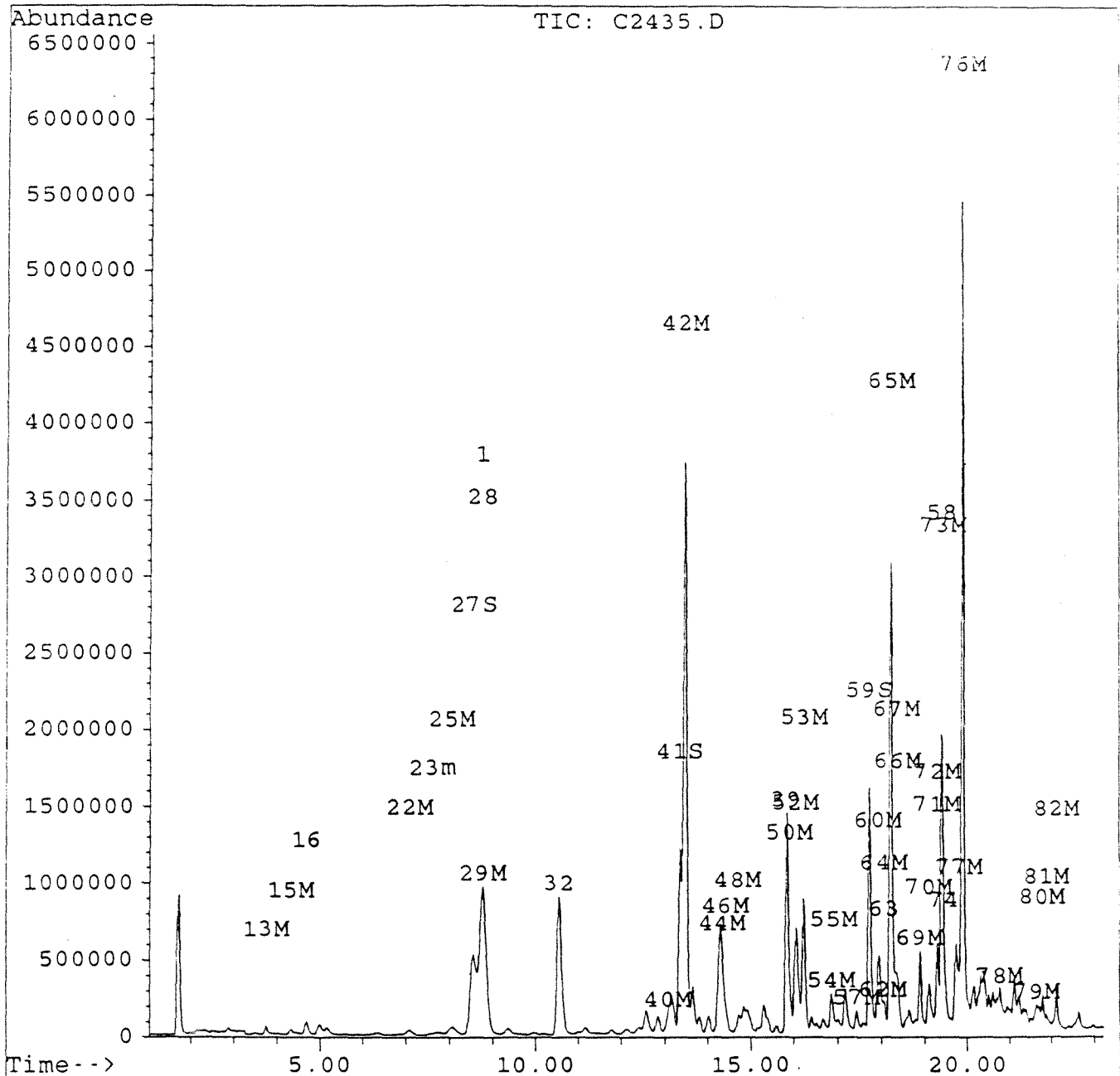
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2435.D
Acq Time : 11 Jul 95 4:33 pm
Sample : 16 87042 1:5 zhe aec
Misc : 86860.organic 0.9266g -> 10ml meoh
Quant Time: Jul 12 8:12 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\3-1-97.M
Title : SW846/8240/8260
Last Update : Thu Mar 02 14:21:08 1995
Response via : Multiple Level Calibration





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 12, 1995

LAB SAMPLE ID : 86861

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G13 DRUM 23
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Corrosivity	Noncorrosi		07/05/95	EPA 1110	94-083-37	JAS
Cyanide Reactivity	ND<0.414	mg/Kg	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/10/95	EPA 1010	87-126-34	KJR
Sulfide Reactivity	500	mg/Kg	07/11/95	SW 846	94-221-16	BJH

For questions regarding this report, please call Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 5, 1995

LAB SAMPLE ID : 86861

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G13 DRUM 23
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		07/02/95	EPA 1311	94-215-30	KJR
ZHE Extraction	*		07/02/95	EPA 1311	92-005-147	KJR
% Total Solids	87.50	percent	07/02/95	EPA 1311	94-215-30	KJR

For questions regarding this report, please call Customer Services.

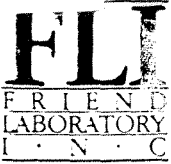
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000207



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4088



DATE Jul 21, 1995

LAB SAMPLE ID : 86862

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86861
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	0.425	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	ND<0.040	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	0.432	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86862

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86861
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270
Method : SW846/8270
Compounds Detected

Analyst : OMB
Units : MG/L
Results

Notebook Reference : 94-248-1784
Date Analyzed : 07/17/95
Date Extracted : 07/05/95

Pyridine	ND<0.007	5.0
o-Cresol	ND<0.007	200.0
p-Cresol/m-Cresol	ND<0.007	200.0
Hexachloroethane	ND<0.007	3.0
Nitrobenzene	ND<0.007	2.0
Hexachlorobutadiene	ND<0.007	0.5
2,4,6-Trichlorophenol	ND<0.007	2.0
2,4,5-Trichlorophenol	ND<0.007	400.0
2,4-Dinitrotoluene	ND<0.007	0.13
Hexachlorobenzene	ND<0.007	0.13
Pentachlorophenol	ND<0.035	100.0
Surrogate Recovery (%)		
2-Fluorophenol	48	
Phenol-d6	3	
Nitrobenzene-d5	40	
2-Fluorobiphenyl	36	
2,4,6-Tribromophenol	100	
Terphenyl-d14	54	

TCLP 8080 Pesticides *
Method : SW846/8080/3510
Compounds Detected

Analyst : KKF
Units : MG/L
Results

Notebook Reference : 95-012-1571
Date Analyzed : 07/14/95
Date Extracted : 07/07/95

Lindane	ND<0.05	0.4
Heptachlor	ND<0.05	0.008
Heptachlor Epoxide	ND<0.05	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.
** SURROGATES WERE DILUTED OUT.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86862

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86861
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<0.05	0.02
Methoxychlor	ND<0.05	10.0
Chlordane	ND<0.05	0.03
Toxaphene	ND<0.5	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	**	
Decachlorobiphenyl	**	
TCLP Herbicides	Analyst : SMB	Notebook Reference : 94-171-394
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<0.012	10.0
Silvex (2,4,5-TP)	ND<0.002	1.0

QC J NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 7, 1995

LAB SAMPLE ID : 86863

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86861
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2367
Method : SW846/8240/5030	Units : MG/L	Date Analyzed : 07/05/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<0.02	0.2
1,1-Dichloroethene	ND<0.02	0.7
Methyl Ethyl Ketone	ND<0.2	200.0
Chloroform	ND<0.02	6.0
Carbon Tetrachloride	ND<0.02	0.5
Benzene	ND<0.02	0.5
1,2-Dichloroethane	ND<0.02	0.5
Trichloroethene	ND<0.02	0.5
Tetrachloroethene	ND<0.02	0.7
Chlorobenzene	ND<0.02	100.0
1,4-Dichlorobenzene	ND<0.02	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	97	
Toluene-d8	93	
Bromofluorobenzene	98	

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000211



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86864

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G14 DRUM 7
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Cyanide Reactivity	ND<0.475	mg/L	07/12/95	SW846	95-124-3	crp
Ignitability	IGNITABLE		07/10/95	EPA 1010	87-126-34	KJR
Sulfide Reactivity	650	mg/L	07/11/95	SW 846	94-221-17	BJH

VAPOR BURNS AT 29 DEGREES C
 QUANTITY NOT SUFFICIENT TO ANALYZE FOR CORROSIVITY.

For questions regarding this report, please call Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
 QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



2.2211

DATE Jul 5, 1995

LAB SAMPLE ID : 86864

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G14 DRUM 7
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
TCLP Extraction	*		06/30/95	EPA 1311	94-215-29	KJR
ZHE Extraction	*		06/30/95	EPA 1311	92-005-149	KJR
% Total Solids	<0.5	percent	06/30/95	EPA 1311	94-215-29	KJR

For questions regarding this report, please call Customer Services.

CC :

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
 QUALITY ASSURANCE

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Albany, NY

Scranton, PA

Jamestown, NY

Boston, MA

Syracuse, NY

Watertown, NY

000213



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
 TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86865

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86864
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	0.346	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	0.078	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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000214



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86865

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86864
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1783
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<0.17	5.0
o-Cresol	ND<0.17	200.0
p-Cresol/m-Cresol	ND<0.17	200.0
Hexachloroethane	ND<0.17	3.0
Nitrobenzene	ND<0.17	2.0
Hexachlorobutadiene	ND<0.17	0.5
2,4,6-Trichlorophenol	ND<0.17	2.0
2,4,5-Trichlorophenol	ND<0.17	400.0
2,4-Dinitrotoluene	ND<0.17	0.13
Hexachlorobenzene	ND<0.17	0.13
Pentachlorophenol	ND<0.7	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	
TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1572
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/14/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<0.03	0.4
Heptachlor	ND<0.03	0.008
Heptachlor Epoxide	ND<0.03	0.008
* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.		
** SURROGATES WERE DILUTED OUT.		

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000215



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 86865

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86864
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<0.03	0.02
Methoxychlor	ND<0.03	10.0
Chlordane	ND<0.03	0.03
Toxaphene	ND<0.3	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	**	
Decachlorobiphenyl	**	
TCLP Herbicides	Analyst : SMB	Notebook Reference : 94-171-395
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<0.012	10.0
Silvex (2,4,5-TP)	ND<0.002	1.0

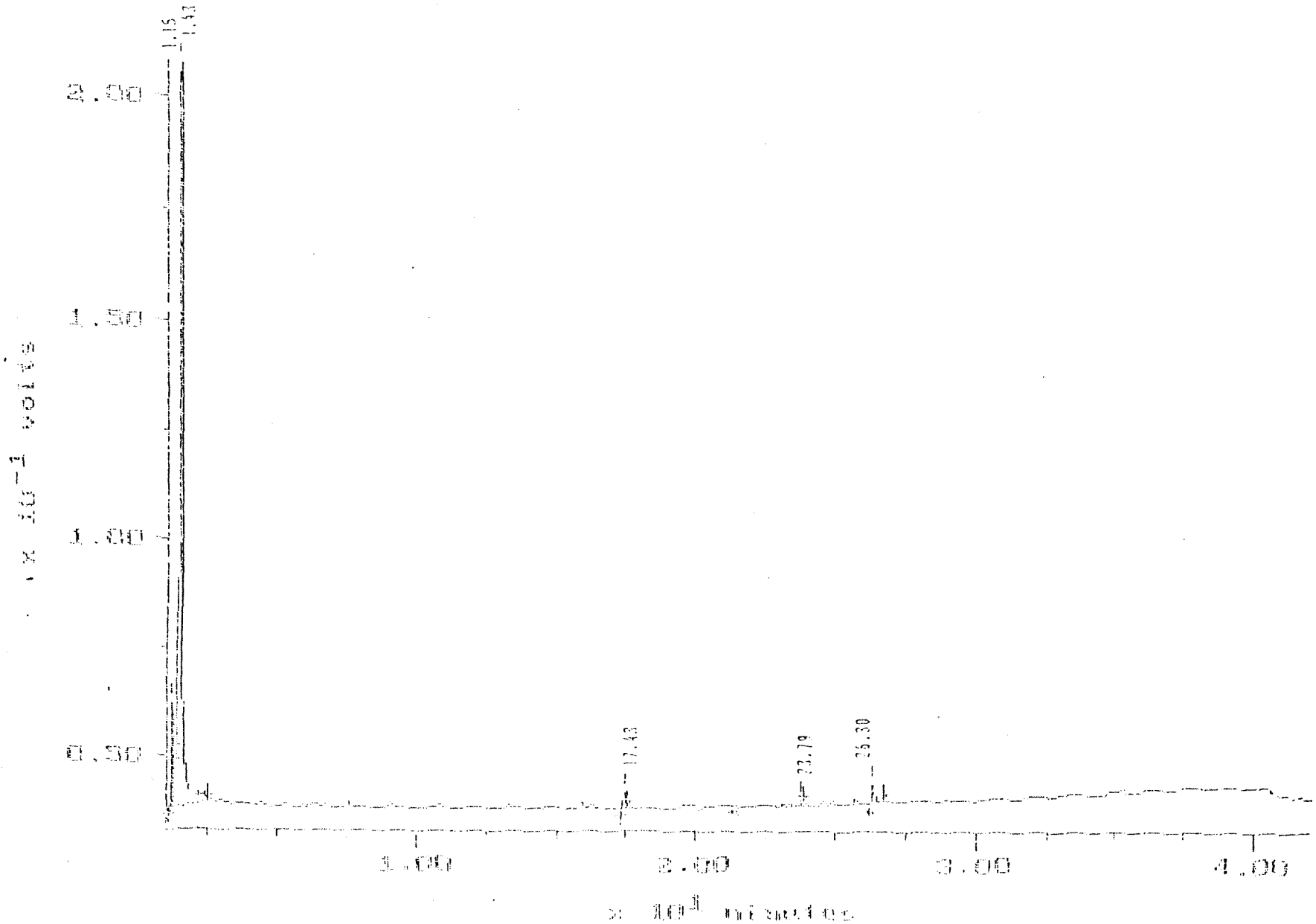
Approved by: Lindsey Brown

NY 10252 PA 68180 NJ 73168 EPA NY 033

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

Sample: 8012-1017 Channel: ECO 3 File name: E3951517
Acquired: 14-JUL-95 5:41 Method: C:\MAX\DATA3\HP20713 Operator: KKF
Dilation: 1 : 100.000

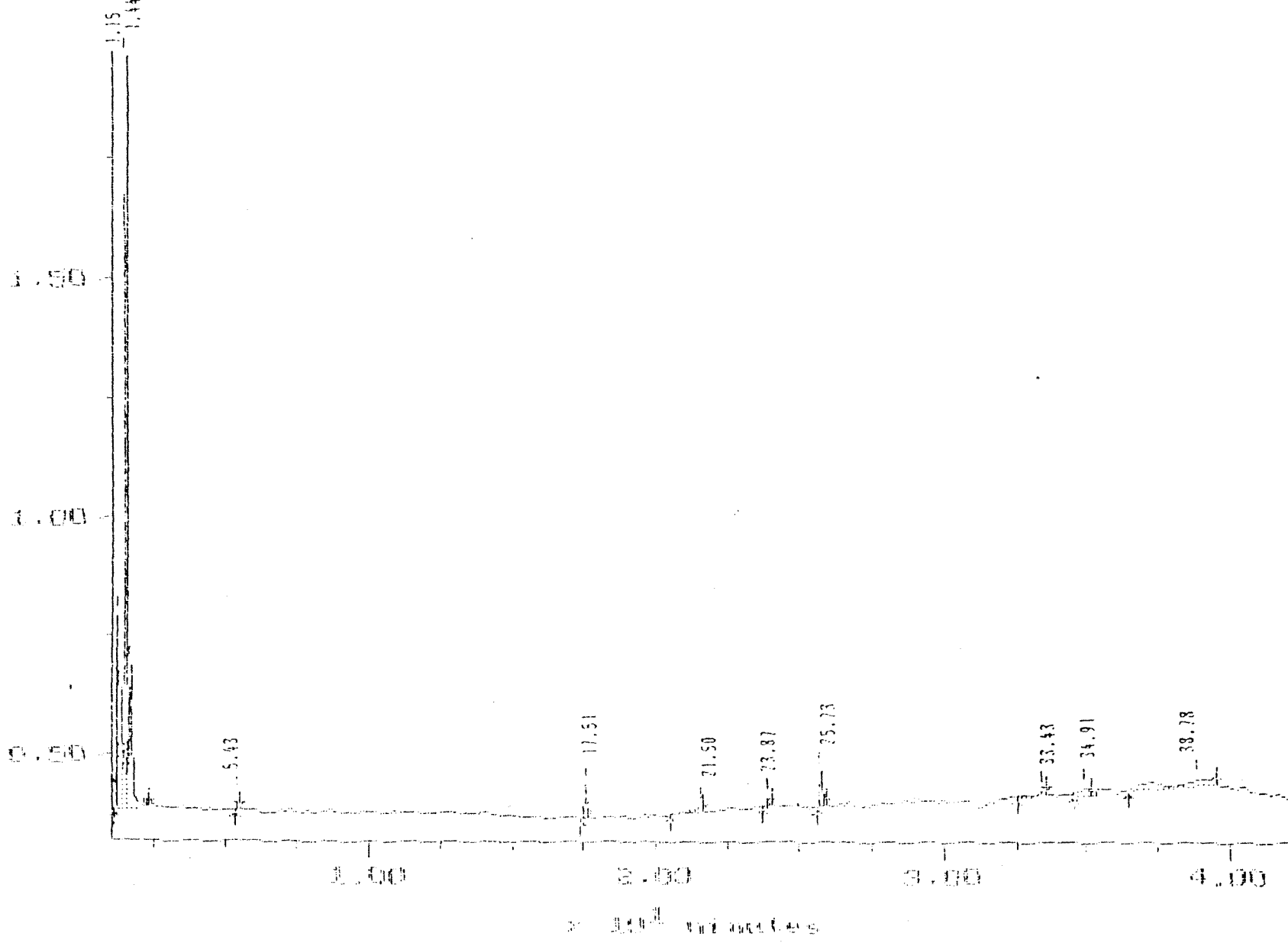


Sample: 86868 1/10
Acquired: 13-JUL-95 21:32
Dilution: 1 : 10,000

Channel: ECO 3
Method: C:\MAX\DATA3\HP70113

Filename: E391001
Operator: KKF

10⁻⁴ uCi/s



TMA (c)1990 Dynamic Soil Tech., Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 13-JUL-1995 8:01:05

SAMPLE: 86363 1/10

#10 in Method: PEST PROC METH
 Acquired: 13-JUL-1995 21:32
 Rate: 2.0 points/sec
 Duration: 42.000 minutes
 Operator: KXF

Type: UNKN
 Instrument: Instrument 3
 Filename: E3951561
 Index: Disk
 Dilution: 10.000

DETECTOR: ECO 3

ELI	Component Name	Original Conc (ug / l)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
			1.150	0.030	284757		1.075	1.317
			1.442	0.037	1027548		1.317	1.550
			1.525	0.042	195542		1.550	2.325
			5.425	0.140	10043		5.325	5.542
			17.508	0.451	35716		17.367	17.650
			21.500	0.554	10952		20.433	21.633
			23.367	0.615	11994		23.125	24.008
			25.125	0.663	39402		25.592	25.917
			33.433	0.862	13154		32.500	33.542
			34.908	0.900	37274		34.500	35.153
			33.733	1.000	124871		35.425	39.433
TOTAL		0.000			1791554			

$1 \text{ ml} \Rightarrow 100 \mu\text{l} \Rightarrow 10 \times$
 $\text{NB} < 5.0 \frac{\text{mg}}{\text{g}}$



Volaciles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 11, 1995

LAB SAMPLE ID : 86866

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86864
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2401
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/07/95
Compounds Detected	Results	-----
Vinyl Chloride	ND<0.02	0.2
1,1-Dichloroethene	ND<0.02	0.7
Methyl Ethyl Ketone	ND<0.2	200.0
Chloroform	ND<0.02	6.0
Carbon Tetrachloride	ND<0.02	0.5
Benzene	ND<0.02	0.5
1,2-Dichloroethane	ND<0.02	0.5
Trichloroethene	ND<0.02	0.5
Tetrachloroethene	ND<0.02	0.7
Chlorobenzene	ND<0.02	100.0
1,4-Dichlorobenzene	ND<0.02	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	37 *	
Toluene-d8	112	
Bromofluorobenzene	118	

* SURROGATE RECOVERY OUTSIDE QC ACCEPTANCE LIMITS DUE TO SAMPLE MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000220



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (807) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86867

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G15 DRUM 32
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Cyanide Reactivity	ND<0.475	mg/L	07/07/95	SW846	95-124-2	crp
Ignitability	NON-IGNITA		07/10/95	EPA 1010	87-126-34	KJR
Sulfide Reactivity	33	mg/L	07/11/95	SW 846	94-221-17	BJH

VAPOR BURNS AT 45 DEGREES C
QUANTITY NOT SUFFICIENT TO ANALYZE FOR CORROSIVITY.

For questions regarding this report, please call Customer Services.

CC :

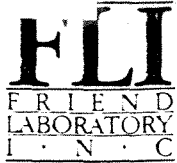
QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

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000221



ONE RESEARCH CIRCLE WAVERLY
TELEPHONE (607) 565-3500 FAX

LAB SAMPLE ID : 86867

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE ID	86867
OR	
DESCR	
SAMPLE	
DATE RE	
PO	

Analysis Performed	Result	Units	Date Analyzed	Method	Reference
TCLP Extraction	*		08-10-99	EPA-816	40 CFR-191
ZHE Extraction	*		08-10-99	EPA-816	40 CFR-191
% Total Solids	<0.5	percent	08-10-99	EPA-816	40 CFR-191

For questions regarding this report, please call Customer Services.

cc :

QC

Approved by

NY 10252 PA 68180 NJ 73168 EPA NY 033

The information in this report is accurate to the best of our knowledge
the cost of these services. Your samples will be discarded after



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 21, 1995

LAB SAMPLE ID : 86868

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86867
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP METALS

EPA HW#	Analysis Performed	Result	Units	Maximum Contaminant Level	Date Analyzed	Method	Notebook Reference
D004	Arsenic	ND<0.800	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D005	Barium	0.215	mg/L	100.0	07/21/95	EPA 6010	95-118-14
D006	Cadmium	ND<0.040	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D007	Chromium	ND<0.160	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D008	Lead	ND<0.440	mg/L	5.0	07/21/95	EPA 6010	95-118-14
D009	Mercury	ND<0.01	mg/L	0.2	07/06/95	EPA 7470	93-290-55
D010	Selenium	ND<0.360	mg/L	1.0	07/21/95	EPA 6010	95-118-14
D011	Silver	ND<0.060	mg/L	5.0	07/21/95	EPA 6010	95-118-14

For questions regarding this report, please call Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

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ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
 Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1 of 2



DATE Jul 27, 1995

LAB SAMPLE ID : 86868

Advanced Env. Consultants
 Dr. Sam Sain
 1700 Universal Road
 Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86867
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

TCLP-8270 *	Analyst : DMB	Notebook Reference : 94-248-1770
Method : SW846/8270	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/05/95
-----	-----	-----
Pyridine	ND<5000	5.0
o-Cresol	ND<5000	200.0
p-Cresol/m-Cresol	ND<5000	200.0
Hexachloroethane	ND<5000	3.0
Nitrobenzene	ND<5000	2.0
Hexachlorobutadiene	ND<5000	0.5
2,4,6-Trichlorophenol	ND<5000	2.0
2,4,5-Trichlorophenol	ND<5000	400.0
2,4-Dinitrotoluene	ND<5000	0.13
Hexachlorobenzene	ND<5000	0.13
Pentachlorophenol	ND<20000	100.0
Surrogate Recovery (%)		
2-Fluorophenol	**	
Phenol-d6	**	
Nitrobenzene-d5	**	
2-Fluorobiphenyl	**	
2,4,6-Tribromophenol	**	
Terphenyl-d14	**	

TCLP 8080 Pesticides *	Analyst : KKF	Notebook Reference : 95-012-1561
Method : SW846/8080/3510	Units : MG/L	Date Analyzed : 07/13/95
Compounds Detected	Results	Date Extracted : 07/07/95
-----	-----	-----
Lindane	ND<5.0	0.4
Heptachlor	ND<5.0	0.008
Heptachlor Epoxide	ND<5.0	0.008

* LOWER DETECTION LIMITS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

** SURROGATES WERE DILUTED OUT.

*** SURROGATES NOT ADDED.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

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RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 20, 1995

LAB SAMPLE ID : 86868

Advanced Env. Consultants

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86867
DESCRIPTION	TCLP EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Endrin	ND<5.0	0.02
Methoxychlor	ND<5.0	10.0
Chlordane	ND<5.0	0.03
Toxaphene	ND<50.0	0.5
Surrogate Recovery (%)		
Tetrachloro-m-xylene	***	
Decachlorobiphenyl	***	
TCLP Herbicides *	Analyst : SMB	Notebook Reference : 94-171-390
Method : SW846/8150	Units : MG/L	Date Analyzed : 07/17/95
Compounds Detected	Results	Date Extracted : 07/06/95
-----	-----	-----
2,4-D	ND<50	10.0
Silvex (2,4,5-TP)	ND<50	1.0

acB

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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Data File : C:\HPCHEM\1\DATA\A1770.D
 Acq Time : 13 Jul 95 5:55 pm
 Sample : 86868,10X
 Misc : AEC TCLP,7/5/95
 Quant Time: Jul 13 18:42 1995

Operator: P. BRÜTSCH
 Inst : GC/MS
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
 Title : 8270 BNA TARGET COMPOUNDS
 Last Update : Wed Jul 12 17:58:21 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DICHLOROBENZENE-D4	12.22	152	2039608	40.00	UG/ML	-0.25
19) NAPHTHALENE-D8	15.46	136	6440648	40.00	UG/ML	-0.25
34) ACENAPHTHENE-D10	19.98	164	3369977	40.00	UG/ML	-0.23
54) PHENANTHRENE-D10	23.83	188	4633423	40.00	UG/ML	-0.30
67) CHRYSENE-D12	30.65	240	2276680	40.00	UG/ML	-0.35
76) PERYLENE-D12	34.54	264	1862346	40.00	UG/ML	-0.38
System Monitoring Compounds						
						%Recovery
4) 2-FLUOROPHENOL	0.00	112	0	0.00	UG/ML	0.00%
6) PHENOL-D6	11.91	99	9851	0.12	UG/ML	0.06%
20) NITROBENZENE-D5	13.85	82	316794	4.72	UG/ML	4.72%
38) 2-FLUOROBIPHENYL	18.36	172	2239	0.02	UG/ML	0.02%
53) 2,4,6-TRIBROMOPHENOL	0.00	330	0	0.00	UG/ML	0.00%
70) TERPHENYL-D14	28.01	244	3478	0.05	UG/ML	0.05%
Target Compounds						
						Qvalue
16) N-NITROSODI-N-PROPYLAMINE	13.11	70	314321	6.06	UG/ML#	39
22) ISOPHORONE	14.55	82	651872	5.27	UG/ML#	55
42) 2,6-DINITROTOLUENE	19.98	165	406246	14.97	UG/ML#	24

10ul → 1ml

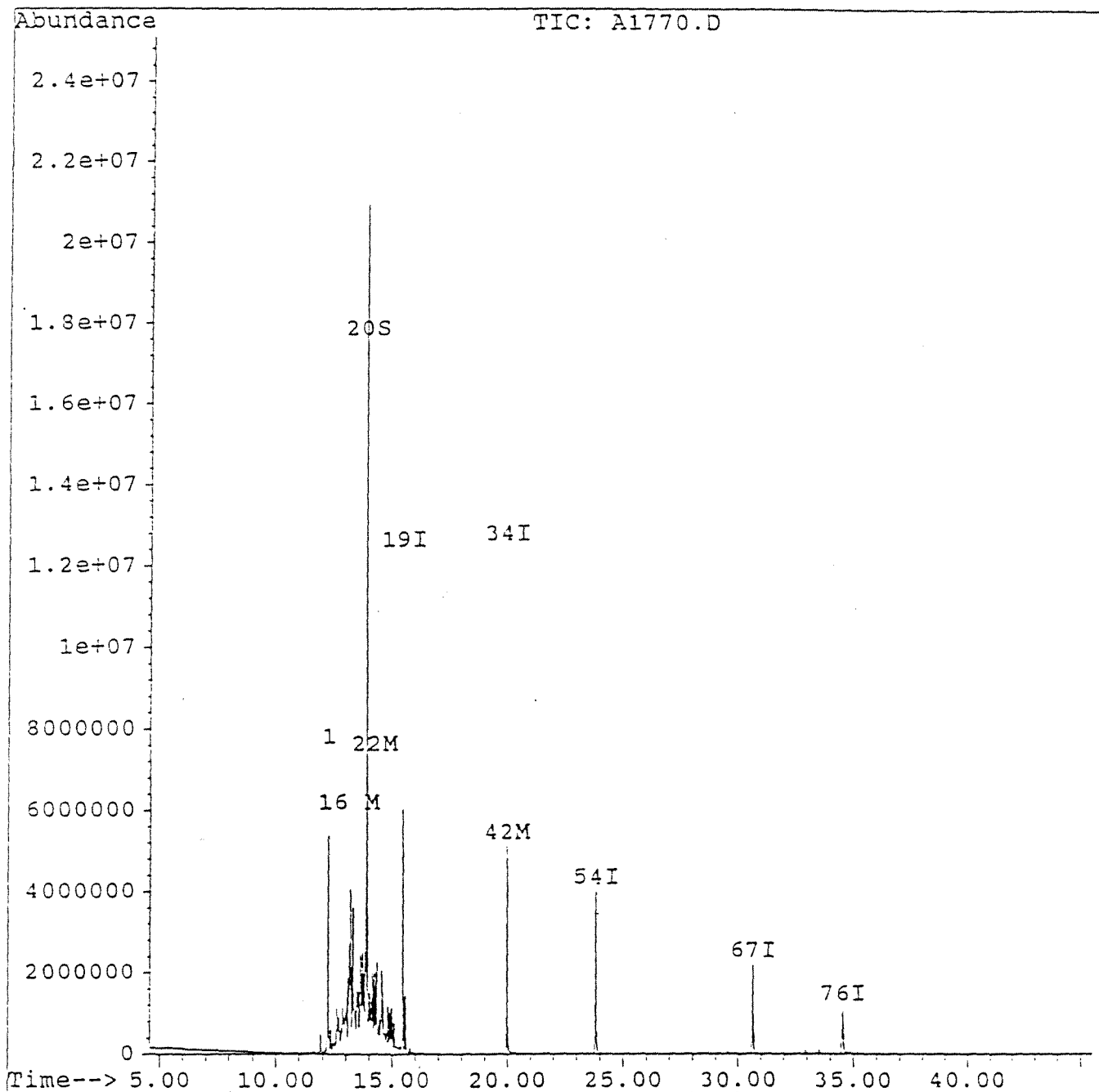
$$\text{detection limit} = \left(\frac{5 \mu\text{g}}{\text{ml}} \right) \left(\frac{1000 \mu\text{l}}{10 \mu\text{l}} \right) \left(\frac{1000 \mu\text{l}}{100 \mu\text{l}} \right) \left(\frac{1000 \text{ ml} \cdot \text{mg}}{1000 \text{ g} \cdot \text{ug}} \right)$$

$$= 500 \frac{\text{mg}}{\text{g}}$$

Data File : C:\HPCHEM\1\DATA\A1770.D
Acq Time : 13 Jul 95 5:55 pm
Sample : 86868,10X
Misc : AEC-TCLP,7/5/95
Quant Time: Jul 13 18:42 1995

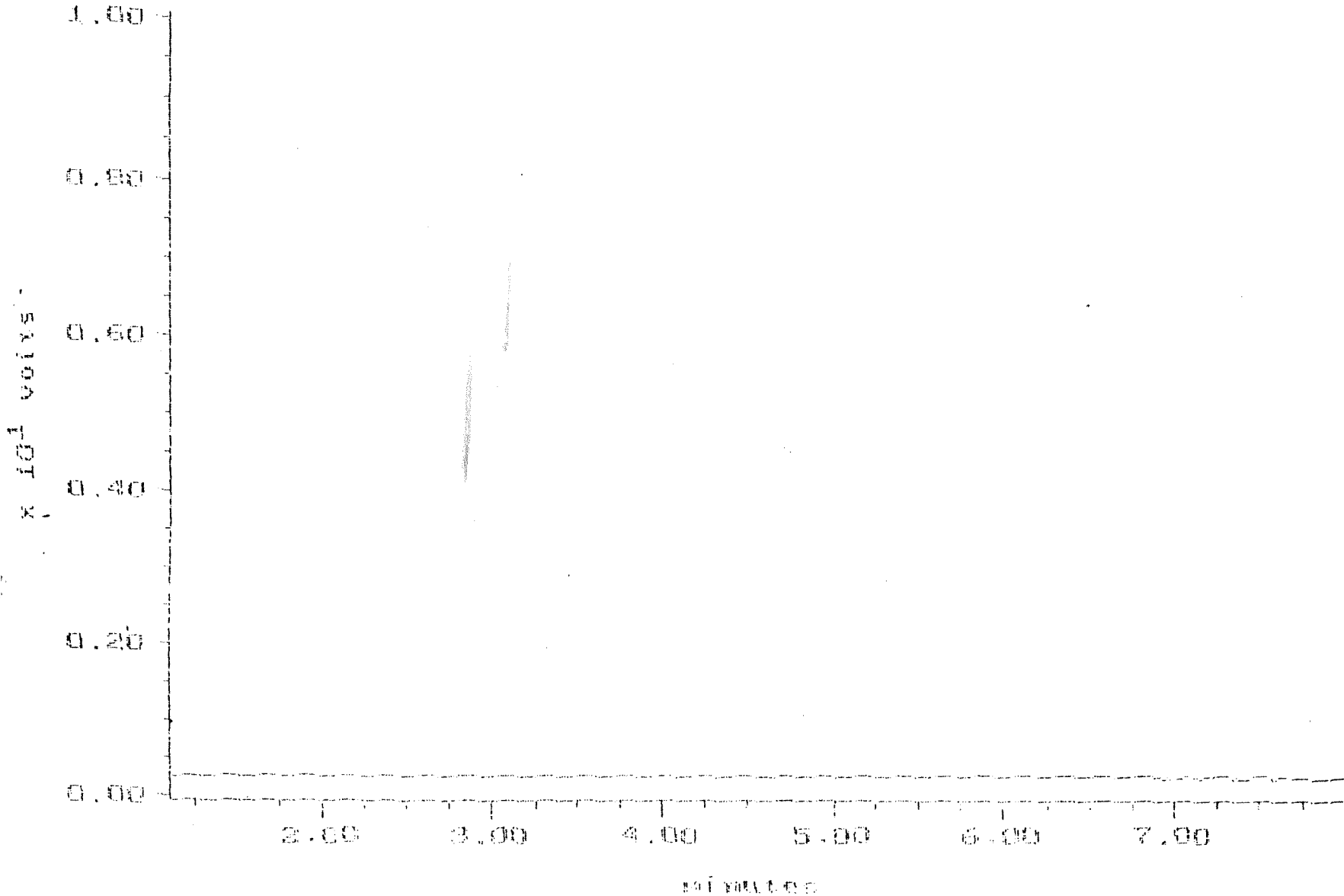
Operator: P. BRUTSCH
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82707-12.M
Title : 8270 BNA TARGET COMPOUNDS
Last Update : Wed Jul 12 17:58:21 1995
Response via : Multiple Level Calibration



2.2226

Sample: 49008
Acquired: 17-JUL-95 17:07
Dilution: 1 : 10.000
Channel: ECO 1
Method: C:\MAX\DATA2\HR87-17
Operator: SWS
Filename: 170707.D



000228

MAXIMA (c)1990 Dynamic Solutions, Division of Millipore

MAXIMA 820 CUSTOM REPORT

Printed: 18-JUL-1995 8:21:37

SAMPLE: 86863

Run Method: SW 846 - 8150 Herbicides
Acquired: 17-JUL-1995 17:07
Rate: 2.0 points/sec
Duration: 8.900 minutes
Operator: SM8

Type: UNKN
Instrument: Instrument 2
Filename: E1950390
Index: Disk
Dilution: 10.000

DETECTOR: ECO 1

FL#	Component Name	Original Conc (UG/L)	Retention Time (minutes)	Relative Time (minutes)	Peak Area	Group #	Peak Start (minutes)	Peak End (minutes)
---	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL		0.000			0			



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Jul 27, 1995

LAB SAMPLE ID : 86869

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	86867
DESCRIPTION	ZHE EXTRACT
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Zero Headspace Extraction Analysis	Analyst : CPW	Notebook Reference : 95-106-2368
Method : SW846/5030/8240	Units : MG/L	Date Analyzed : 07/05/95
Compounds Detected	Results	
-----	-----	-----
Vinyl Chloride	ND<12.5	0.2
1,1-Dichloroethene	ND<12.5	0.7
Methyl Ethyl Ketone	ND<125	200.0
Chloroform	ND<12.5	6.0
Carbon Tetrachloride	ND<12.5	0.5
Benzene	ND<12.5	0.5
1,2-Dichloroethane	ND<12.5	0.5
Trichloroethene	ND<12.5	0.5
Tetrachloroethene	ND<12.5	0.7
Chlorobenzene	ND<12.5	100.0
1,4-Dichlorobenzene	ND<12.5	7.5
Surrogate Recovery (%)		
Dibromofluoromethane	99	
Toluene-d8	92	
Bromofluorobenzene	149 *	

* SURROGATE RECOVERY OUTSIDE QC ACCEPTANCE LIMITS.
LOWER DETECTION LEVELS NOT POSSIBLE DUE TO MATRIX INTERFERENCE.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

000230

Quantitation Report

2.2229

Data File : C:\HPCHEM\1\DATA\C2368.D
 Acq Time : 5 Jul 95 5:49 pm
 Sample : 7 86869 1:2500 zhe aec
 Misc : g15
 Quant Time: Jul 6 8:13 1995

Operator: C. Werda
 Inst : GC/MSD-C
 Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
 Title : SW846/8240/8260
 Last Update : Fri Jun 30 09:12:08 1995
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.78	168	2535676	50.00	ug/l	0.03
32) 1,4-Difluorobenzene	10.54	114	2239444	50.00	ug/l	0.01
39) Chlorobenzene-d5	15.83	117	1875202	50.00	ug/l	-0.01
58) 1,4-Dichlorobenzene-d4	19.41	152	708397	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
27) Dibromofluoromethane	8.46	113	1479525	49.59	ug/l	99.17%
41) Toluene-d8	13.36	98	1904335	46.16	ug/l	92.32%
59) 4-Bromofluorobenzene	17.73	95	1444631	74.48	ug/l	148.96%

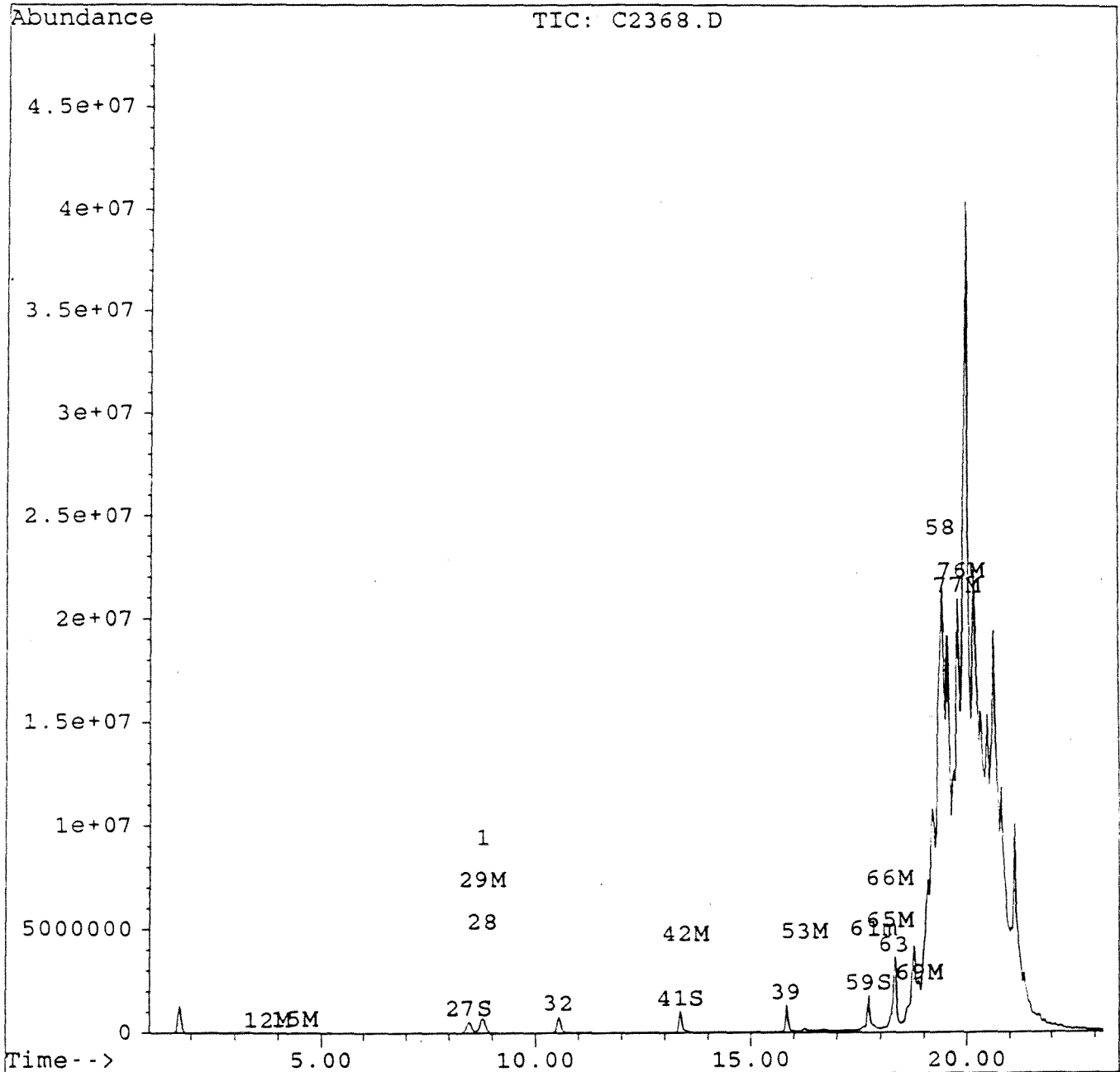
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) Propane (2-Propanone)	2.75	43	113000	10.59	ug/l	75
15) Methylene Chloride	4.38	84	24187	2.07	ug/l	95
20) Carbon Tetrachloride	6.77	117	210000	6.70	ug/l	10
29) 1,1-Dichloropropane	6.77	76	171310	6.37	ug/l	99
42) Toluene	13.48	92	107762	4.15	ug/l	98
53) p-Xylene/m-Xylene	16.24	106	49902	2.65	ug/l	94
61) 1,1,2,2-Tetrachloroethane	17.24	93	21500	3.20	ug/l	90
63) trans-1,4-Dichloro-2-Butene	18.33	53	100000	76.67	ug/l	90
65) 2-Chlorotoluene	18.23	91	310660	10.56	ug/l	97
66) 4-Chlorotoluene	18.33	91	311517	9.80	ug/l	92
69) 1,2,4-Trimethylbenzene	18.91	105	68527	2.53	ug/l	92
76) 1,2-Dichlorobenzene	19.60	116	107500	11.02	ug/l	90
77) n-Butylbenzene	19.81	91	610000	24.01	ug/l	90

Quantitation Report

Data File : C:\HPCHEM\1\DATA\C2368.D
Acq Time : 5 Jul 95 5:49 pm
Sample : 7 86869 1:2500 zhe aec
Misc : g15
Quant Time: Jul 6 8:13 1995

Operator: C. Werda
Inst : GC/MSD-C
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\6-29-82.M
Title : SW846/8240/8260
Last Update : Fri Jun 30 09:12:08 1995
Response via : Multiple Level Calibration



000232



ENVIRONMENTAL MONITORING • MICROBIOLOGY
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INFORMATION MANAGEMENT



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

ADVANCED ENVIRONMENTAL CONSULTANTS
Dr. Sam K. Sain
1700 Universal Rd. Suite 3
Pittsburgh, PA 15235

July 28, 1995

RE: DRUM ANALYSES

Group 1 - Drums 12 & 24 composite sample ID 86825

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantative reports included

TCLP Metals partial results sample been run 4 times and quality control has not passed and laboratory director will not release results

Group 2 - Drums 25, 27, 29, 30, 31, & 33 Composite sample ID 86828

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantative reports included

Group 3 - Drums 6 & 17 sample composite ID 86831

TCLP semi-volatiles organic analyses (EPA 8270, 8080, 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantative reports included

Group 4 - Drums 20 & 34 composite sample ID 86834

Multiphasic

Aqueous & organic Layers

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantative reports included

AEC Drum Analyses
page 2

Group 5 - Drums 1 & 26

Multiphasic
Organic Layer

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Aqueous layer
insufficient sample for TCLP analyses

Group 6 - Drums 3, 8, 9, 10, 11, & 22 sample composite ID 86840

TCLP Organic Analyses (EPA 8080) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 7 - Drums 6 & 39 composite sample ID 86843

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 8 - Drums 14, 15, 18, 35, & 38 composite sample ID 86846

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 9 - Drums 2, 5, & 28 sample composite ID 86849

Multiphasic
Organic layer

All TCLP organic analyses (EPA 8240, 8270, 8080. & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

AEC Drum Analyses
page 3

Group 10 - Drum 4 sample ID 86852

Multiphasic
Aqueous layer

TCLP organic analyses (EPA 8240) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

TCLP Semi-volatile analyses (EPA 8270, 8080, 8150) insufficient sample for TCLP analyses

Group 11 - Drums 36 & 37 composite sample ID 86855

TCLP organic analyses (EPA 8240, & 8080) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 12 - Drum 19 sample ID 86858

Aqueous layer

TCLP Semi-volatile analyses (EPA 8270, 8080, 8150) insufficient sample for TCLP analyses

Organic layer

All TCLP organic analyses (EPA 8240, 8270, 8080, & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 13 - Drum 23 sample ID 86861

TCLP organic analyses (EPA 8080) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 14 - Drum 7 sample ID 86865

TCLP organic analyses (EPA 8080) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included

Group 15 - Drum 32 sample ID 86867

All TCLP organic analyses (EPA 8240, 8270, 8080, & 8150) - TCLP action levels unattainable due to excessive concentrations of non-target compounds - chromatogram & quantitative reports included



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TELEPHONE (607) 565-3500 FAX (607) 565-4083



Advanced Environmental Consultants
1700 Universal Road, Suite 3
Pittsburgh, PA. 15235
attn: Paul Bosetti

Aug. 11, 1995

CC. Mike Manuella
American Haz Mat.

Explanation of the 310.13 Analyses

This test is done to determine fingerprints for gasoline, diesel, kerosene, and lubricating oils. The reason this test was ran is the chromatogram from the mass-spec runs (8240 / 8270) indicated compounds that were petroleum based.

The test did not show any specific fingerprints for the standard petroleum compounds, but if you will note the comments at the bottom of the sheets they state where specific compounds are showing up (eluting).

Compounds that are less than c-6 are very low temperature boilers. Distillates, etc. They will probably exhibit low flash points or ignitability. The compounds will be very low viscosity (probably less than water). Compounds in the c-6 to c-10 range will exhibit similar characteristics to gasoline. Compounds in the c-10 to c-28 range will exhibit characteristics similar to diesel #2 Fuel oil #2 and other related fuels. These could be oils but are probably relatively low viscosity with not a lot of lubricating capacity. C-28 and greater compounds will be from lubricating oils to gear lubes as the c number increases. These will boil only at higher ranges and will exhibit low or non existent PID readings and Flash points.

As you can see from the comments many of the samples do contain heavier oils such as cutting and lubricating oils within them. Also, some of the samples have lighter compounds which have been mixed with these, in most cases to a much lesser degree.

These lighter compounds can be the reasons for the low flammability of some of the samples.

Library searches were ran on the GC mass-spec analyses of the TCLP/ZHE extracts. This does not give conclusive information as the extracts are very dilute, and the search compounds are not run in the method references, so no quantitative results are possible. This in addition to the GC/FID scan which checks for other "F" listed compounds not found in the GC mass-spec analyses show no "f" listed compounds of $\frac{1}{2}$ levels with the exception of G-1. G-1 does

show approx. 2% chlorobenzene and 1-2 % of dichlorobenzene. This would indicate these drums as potential solvents.

Physical Evaluation:

G-1 drums smell like creosote which is a high phenols compound

G-2 drums 25, 27, & 30 smell like paint thinners (turpentine, mineral spirits). drum 29 smells like isopropyl alcohol, drum 33 smells like toluene. The clear consistency of each sample indicates that the compound is probably not contaminated. drum 31 smells like heavy naphthas

G-3 drum 6 oil, drum 17 cutting oil

G-4 some toluene in drum 34, drum 20 cutting oil

G-5 drum 1 about 70% water with a light oil
drum 20 heavy oil and 15% water

G-6 drum 3 strong phenols
drums contain solids and water and contaminates

G-7 drum 16 high alkalinity (caustic or other strong base material) in water. drum 39 oil

G-8 cutting oil

G-9 Lubricating oils

G-11 high alkalinity (caustic or other strong base)

I hope this is helpful in your classification. I will be in Monday if we can be of further help.

Best Regards,

Stan Criss



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4088



DATE Aug 10, 1995

LAB SAMPLE ID 86828

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G-2DRUM 25,27,29,30,31,33
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Petroleum Products in Water
Method : NYSOM 310-13
Compounds Detected

Analyst : KXF
Units :
Results

Notebook Reference : 95-090-2159
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 95-124-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C6-12 RANGE AT 1-10%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73188 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



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Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1



DATE Aug 10, 1995

LAB SAMPLE ID 86825

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G1 DRUMS 12,24
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO	

Petroleum Products in Water
Method : NYSOM 310-13
Compounds Detected

Analyst : KKF
Units :
Results

Notebook Reference : 95-090-2166
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 93-126-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Mitopropene
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C10-18 RANGE AT 0.5-5%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

Approved by:

NY 10252 PA 68180 NJ 73188 EPA NY 033

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI WAVERLY

004



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Page 1



DATE Aug 10, 1995

LAB SAMPLE ID 86843

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G7 DRUMS 6,39
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO	

Petroleum Products in Water
Method : NYSDOM 310-13
Compounds Detected

Analyst : KXF
Units :
Results

Notebook Reference : 95-090-2163
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 93-124-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT BLUTES IN >C34 RANGE AT 5-20%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73158 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exc the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4088



DATE : Aug 10, 1995

LAB SAMPLE ID 86846

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G8 DRUMS 14, 15, 18, 35, 38
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO	

Petroleum Products in Water
Method : XYSOHN 310-13
Compounds Detected

Analyst : KKF
Units :
Results

Notebook Reference : 95-090-2165
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline	ND
Kerosene	ND
Fuel Oil	ND
Motor Oil	ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 93-124-123
Date Analyzed : 08/10/95
Date Extracted :

F003	
Ethy. Acetate	ND<0.25
Ethy. Ether	ND<0.25
n-Butyl Alcohol	ND<0.25
Cyclohexanone	ND<0.25
Methanol	ND<0.25
F005	
Isobutanol	ND<0.25
2-Ethoxyethanol	ND<0.25
2-Nitropropane	ND<0.25
Pyridine	ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN >C34 RANGE AT 5-20%.

For questions regarding this report, please call and ask for Customer Services.

CC :

OC *J*

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: *Lindsey Brown*
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WEAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE : Aug 10, 1995

LAB SAMPLE ID : 86831

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G3 DRUMS 6,17
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO	

Petroleum Products in Water
Method : HYSDOH 310-13
Compounds Detected

Analyst : KKF
Units :
Results

Notebook Reference : 95-090-2167
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 93-124-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C8-16 RANGE AT 0.5-5%.
PETROLEUM PRODUCT PRESENT ELUTES IN >C34 RANGE AT 1-10%.

For questions regarding this report, please call and ask for Customer Services.

cc :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1552
SEMIVOLATILES TELEPHONE (807) 565-3500

FAX (807) 565-4088



DATE Aug 10, 1995

LAB SAMPLE ID 86834

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G4 DRUMS 20,34
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Petroleum Products in Water
Method : NYSDOH 310-13
Compounds Detected
.....
Gasoline
Kerosene
Fuel Oil
Motor Oil

Analyst : KKF
Units :
Results
.....
ND
ND
ND
ND

Notebook Reference : 95-090-2168
Date Analyzed : 08/09/95
Date Extracted : 08/08/95
.....

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected
.....

Analyst : JAK
Units : MG/L
Results
.....

Notebook Reference : 93-124-123
Date Analyzed : 08/10/95
Date Extracted :
.....

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isopropanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C6-10 RANGE AT 1-10%.
PETROLEUM PRODUCT PRESENT ELUTES IN C14-16 RANGE AT 0.5-5%.
PETROLEUM PRODUCT PRESENT ELUTES IN >C34 RANGE AT 5-20%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



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Semivolatiles TELEPHONE (607) 565-3500 FAX (607) 565-4083

Page 1



DATE Aug 10, 1995

LAB SAMPLE ID 86855

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G11 DRUMS 36,37
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Petroleum Products in Water
Method : NYSDOH 310-13
Compounds Detected

Analyst : KKF
Units :
Results

Notebook Reference : 95-090-2156
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 93-126-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropene
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C10-18 RANGE AT 0.5-5%.
PETROLEUM PRODUCT PRESENT ELUTES IN >C34 RANGE AT 5-20%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC D

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (807) 565-3500 FAX (807) 565-4083



DATE Aug 10, 1995

LAB SAMPLE ID 86840

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G6 DRUMS 3, 8, 9, 10, 11, 22
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO	

Petroleum Products in Water
Method : NYSDOM 310-13
Compounds Detected

Analyst : KKF
Units :
Results

Notebook Reference : 95-090-2157
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 93-124-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C10-18 RANGE AT 0.5-5X

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 66180 NJ 73168 EPA NY 033

Approved by:

QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

Page 1



DATE Aug 10, 1995

LAB SAMPLE ID 86837

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G5 DRUMS 1,26
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95
DATE RECEIVED	06/29/95
P.O. NO	by CLIENT

Petroleum Products in Water
Method : NYSOON 310-13
Compounds Detected

Analyst : KXF
Units :
Results

Notebook Reference : 95-090-2169
Date Analyzed : 08/09/95
Date Extracted : 08/08/95

Gasoline
Kerosene
Fuel Oil
Motor Oil

ND
ND
ND
ND

F Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected

Analyst : JAK
Units : MG/L
Results

Notebook Reference : 95-124-123
Date Analyzed : 08/10/95
Date Extracted :

F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

PETROLEUM PRODUCT PRESENT ELUTES IN C6-10 RANGE AT 0.5-5%.
PETROLEUM PRODUCT PRESENT ELUTES IN C14-22 RANGE AT 0.5-5%.
PETROLEUM PRODUCT PRESENT ELUTES IN >C26 RANGE AT 5-20%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10262 PA 88180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exc the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

FLI WAVERLY



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
Semivolatiles TELEPHONE (607) 565-3500

FAX (607) 565-4088

Page 1



DATE Aug 10, 1995

LAB SAMPLE ID 86849

Advanced Env. Consultants
Dr. Sam Sain
1700 Universal Road
Pittsburgh PA 15235

SAMPLE SOURCE	SMS INSTRUMENTS
ORIGIN	G9 DRUMS 2,5,28
DESCRIPTION	COMPOSITE
SAMPLED ON	06/27/95 by CLIENT
DATE RECEIVED	06/29/95
P.O. NO.	

Petroleum Products in Water
Method : NYSDOH 310-13
Compounds Detected
.....
Gasoline
Kerosene
Fuel Oil
Motor Oil

Analyst : KKF
Units :
Results
.....
ND
ND
ND
ND

Notebook Reference : 95-090-2164
Date Analyzed : 08/09/95
Date Extracted : 08/08/95
.....

P Scan Series (Semivolatiles)
Method : GC-FID
Compounds Detected
.....
F003
Ethyl Acetate
Ethyl Ether
n-Butyl Alcohol
Cyclohexanone
Methanol
F005
Isobutanol
2-Ethoxyethanol
2-Nitropropane
Pyridine

Analyst : JAK
Units : MG/L
Results
.....
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25
ND<0.25

Notebook Reference : 93-124-123
Date Analyzed : 08/10/95
Date Extracted :
.....

PETROLEUM PRODUCT PRESENT ELUTES IN >C34 RANGE AT 5-20%.

For questions regarding this report, please call and ask for Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by:
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability be the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise

Superfund Update



SMS INSTRUMENTS SITE

Deer Park, New York

EPA
Region 2

October 1995

The U.S. Environmental Protection Agency (EPA) is issuing this update to inform citizens and government officials of the status of the Removal Action at the SMS Instruments Site (Site) in Deer Park, New York.

OVERVIEW

Under Superfund, EPA can respond to a release or the threat of a release of hazardous substances by initiating a removal action. Removal actions are short term operations to reduce or eliminate the threats to public health or the environment associated with the release of hazardous substances.

EPA began removal activities at the Site to stabilize, remove and dispose of forty-eight drums, thirty-one 5-gallon pails and numerous small containers abandoned by SMS Instruments.

SITE HISTORY

The Site was operated by SMS Instruments from 1967 to 1990. SMS Instruments overhauled military aircraft components. The overhauling operations consisted of cleaning, degreasing, machining, painting, refurbishing, and testing of the components. These activities involved the purchase, storage and use of chemical products and the generation of hazardous wastes.

Operations at the Site, including the discharge of untreated waste water from degreasing and painting operations resulted in significant

contamination of site soils and groundwater with volatile organic compounds.

The Site was proposed for the National Priorities List (NPL) in October 1984 by the New York State Department of Environmental Conservation (NYSDEC). In June 1986 EPA included the Site on the NPL.

A Remedial Investigation (RI) conducted by EPA, identified organic and inorganic contamination in the soils and groundwater on-site. Contamination was also detected in upgradient wells indicating that SMS may not be the only source of groundwater contamination.

A Record of Decision (ROD) which specified clean-up actions in two separate operable units was signed in September 1989. The clean-up for Operable Unit I (OUI) included: treatment (in-situ stripping) of contaminated soil; and extraction and treatment of contaminated groundwater. The ROD also mandated that a second operable unit (OUII), be performed to identify other possible sources of off-site contamination.

The RI/FS for OUII was initiated in April 1990 and included an investigation of a 120-acre study area upgradient of the Site which may have contributed to the groundwater contamination. No upgradient source of contamination was identified that could have contributed to groundwater contamination at the Site. Upgradient groundwater contamination was determined to be within the capture zone of the pump and treat system proposed for OUI. A "No Action" ROD was signed for OUII in September 1993.

The remedial design and action was performed in two phases; the first phase addressed the soil cleanup and the second phase addressed the groundwater cleanup. A soil vapor extraction (SVE) system was selected for remediation of the contaminated soil. Construction of the SVE system began in December 1991. After installation of the SVE system was completed in April 1992 the system operated from May 1992 to November 1993. A final inspection of the system showed that it was successful in achieving the clean-up levels necessary to protect human health and the environment.

Construction of the groundwater treatment system began in November 1993. The treatment of the groundwater started in June 1994 and continues to this date.

Forty-eight drums (varying in size from 20 to 55 gallons), thirty-one 5-gallon pails and assorted small containers (less than 1 gallon) remain in a shed located on the Site. Analysis of samples collected from the drums indicate that they contain primarily solvents and industrial oils. Twelve of fifteen samples analyzed were determined to be hazardous wastes. These containers are physically deteriorated. A release of hazardous substances from these containers could result in the exposure of the neighboring population to hazardous substances or contamination of the environment.

PLANNED ACTIVITIES

The planned activities will be conducted in two phases. In the first phase, all containers will be secured, sampled and analyzed for compatibility. Compatible materials will be combined. Samples from each compatible group will be analyzed and characterized for disposal. The on-site activities associated with Phase 1 are scheduled to be completed the week ending October 21, 1995. On-site operations will be suspended while arrangements for disposal are made.

Phase 2 involves transportation and disposal of all waste materials. All hazardous wastes will be disposed of off-site in accordance with all applicable federal and state regulations. It is anticipated that Phase 2 of this project will be completed in December 1995.

FURTHER INFORMATION

For additional information concerning the removal activities at the Site, please contact Ann Rychlenski, Community Relations Coordinator at (212) 637-3672 or Eric Wilson On-Scene Coordinator at (908) 906-6991.

NOTICE OF PUBLIC AVAILABILITY

The United States Environmental Protection Agency Announces
The Availability of the Administrative Record for
the SMS Instruments Site

The U.S. Environmental Protection Agency (EPA) announces the availability for public review of files comprising the administrative record for the selection of the removal action at the SMS Instruments Site. The EPA seeks to inform the public of the availability of the record file at this repository and to encourage the public to comment on documents as they are placed in the record file.

The administrative record file includes documents which form the basis for the selection of a removal action at this site. Documents now in the record file include: Sampling Analytical Data Report, Request for a Removal Action, Referral Letter and the EPA regional guidance documents list. Other documents will be added to the record files as site work progresses. These additional documents may include, but are not limited to, other technical reports, validated sampling data, comments, and new data submitted by interested persons, and the EPA responses to significant comments.

The administrative record files are available for review during normal business hours at:

Deer Park Public Library	U.S. EPA - Region II
44 Lake Avenue	Removal Action Branch
Deer Park, NY 11729	2890 Woodbridge Avenue
Phone (516)586-3000	Edison, N.J.
Attention: Carol Greenbaum	Phone (908)906-6991

Additional information is available at the following location:

Guidance documents and technical literature	U.S. EPA - Region II
	Removal Records Center
	2890 Woodbridge Avenue
	Bldg 205
	Edison, N.J.
	Phone (908) 906-6980

Written comments on the Administrative Record should be sent to:

Eric J. Wilson, On-Scene Coordinator
U.S. EPA - Region II
2890 Woodbridge Ave., Bldg 209
Edison, NJ 08837

EPA REGIONAL GUIDANCE DOCUMENTS

The following documents are available for public review at the EPA Region II Field Office, Raritan Depot, Woodbridge Avenue, Edison, New Jersey during regular business hours. Contact Eric J. Wilson at (908)906-6991 for more information.

- * Glossary of EPA Acronyms.
- * Superfund Removal Procedures--Revision #3. OSWER Directive 9360.0-03B, February 1988.
- * Hazardous Waste Operations and Emergency Response. Notice of Proposed Rule making and Public Hearings. 29 CFR Part 1910, Monday, August 10, 1987.
- * Guidance on Implementation of Revised Statutory Limits on Removal Action. OSWER Directive 9260.0-12, May 25, 1988.
- * Redelelegation of Authority under CERCLA and SARA. OSWER Directive 9012.10, May 25, 1988.
- * Removal Cost Management Manual. OSWER Directive 9360.0-02B, April, 1988.
- * Field Standard Operating Procedures (FSOP).
 - #4 Site Entry.
 - #6 Work Zones.
 - #8 Air Surveillance.
 - #9 Site Safety Plan.
- * Standard Operating Safety Guides -- U.S. EPA Office of Emergency and Remedial Response, July 5, 1988.
- * CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Superfund).
- * SARA: Superfund Amendments and Reauthorization Act of 1986.
- * NCP: National Oil and Hazardous Substances Pollution Contingency Plan. - Publication No. 9200.2-14.
- * Guidance on Implementation of the "Contribute to Efficient Remedial Performance" Provision - Publication No. 9360.0-13.

Additional Guidance Documents are listed below and are available for review at the EPA Region II Removal Records Center.

- * The Role of Expedited Response Actions (EPA) Under SARA - Publication No. 9360.0-15.
- * Guidance on Non-NPL Removal Actions Involving Nationally Significant or Precedent Setting Issues - Publication No. 9360.0-19.
- * ARARS During Removal Actions - Publication No. 9360.3-02.
- * Consideration of ARARS During Removal Actions -Publication No. 9360.3-02FS.
- * Public Participation for OSCs - Community Relations and the Administrative Record - Publication No.9360.3-05.
- * Superfund Removal Procedures - Removal Enforcement Guidance for On-Scene Coordinators - Publication No. 9360.3-06.
- * QA/QC for Removal Actions - Publication No. 9360.4-01.
- * Compendium for ERT Air Sampling Procedures - Publication No. 9360.4-05.