

02.08-03/01/97-02288

**Contractor's Closeout Report  
for  
Sites 6 and 82 Source Removal  
Operable Unit No. 2  
MCB Camp Lejeune  
Jacksonville, North Carolina**

**Volume II of IX**

Prepared for:

**DEPARTMENT OF THE NAVY  
Contract No. N62470-93-D-3032  
Delivery Order 0032**

Prepared by



**OHM Remediation  
Services Corp.**  
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450  
Norcross, GA 30092

March 1997

OHM Project No. 15226

02.08-03/01/97-02288

**Appendix C**  
**Waste Manifests**



# NOBLE OIL SERVICES

24056

FACILITY

## INDUSTRIAL SERVICES DIVISION

1-800-862-5364

5817 CLYDE RHYNE DR.

SANFORD, N.C. 27330

FOR EMERGENCY RESPONSE:

EPA ID# NCD 9861-72476

DATE 2-16-94

Spill, Leak, Fire, Accident  
CALL N.C. EMERGENCY MANAGEMENT  
1-800-862-7868  
24 HRS. PER DAY, 7 DAYS PER WEEK

TRUCK# # 52

### GENERATOR

### BILL TO:

CUSTOMER Camp Lejeune NCS

CUSTOMER O. H. M.

ADDRESS LOT # 203

ADDRESS 100 Pamlico Dr.

Camp Lejeune NC ZIP \_\_\_\_\_

Morrisville, N.C. ZIP 27560

CONTACT \_\_\_\_\_

CONTACT Keith Geis

PHONE( ) \_\_\_\_\_

PHONE( ) 910-451-1809

START TIME 1:40 STOP TIME 2:40

P.O.# \_\_\_\_\_

DRUMS/ GAL.	MATERIAL	UNIT PRICE	SRV. CHARGE	TOTAL
	PETROLEUM OIL MIXTURE, N.O.S. (USED OIL/WATER MIXTURE), COMBUSTIBLE LIQUID, UN 1270, PG III			
	SLUDGE/NON-HAZARDOUS SOLIDS			
	GASOLINE, CLASS 3, UN 1203, PG II (GASOLINE) FOR RECOVERY/RECYCLING			
	GASOLINE/MIXTURE, CLASS 3, UN 1203, PG II (GASOLINE/WATER MIXTURE) FROM U.S.T.'S OR EXEMPT			
<u>740</u>	FUEL OIL MIXTURE, COMBUSTIBLE LIQUID, NA 1985, PG III (FUEL OIL/WATER MIX)	<u>.46</u>	<u>920.8</u>	

TERMS: PAYABLE UPON RECEIPT

TOTAL DUE

PROFILE NUMBER \_\_\_\_\_

### Generators Certification:

I certify that the materials above are accurately described, classified, packaged, marked and labeled, and are in proper condition for transport according to applicable state, EPA, and D.O.T. regulations. Furthermore, I have no knowledge of any hazardous waste contained or mixed with the material that is to be transported. I, the generator, expressly agree and promise to hold Noble Oil Services, Inc. and all its officers and employees free from and otherwise indemnify the same against any and all penalties and other liability resulting from the transfer of such materials under this manifest.

Authorized Customer Agent (Sign) x Steve Bridges (Print) Steve Bridges

Noble Oil Services Agent (Sign) x [Signature] (Print)

Job Description Received waste to be transported from Tank 2

Materials Used \_\_\_\_\_



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 1

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune  
1005 Michael Road  
Jacksonville, NC 28547

Address: Chance Construction  
245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: MORTON TRUCKING

Gross Weight (Pounds): 66300

Truck #: EM15

Tare Weight (Pounds): ~~30000~~ 28780 ✓

Truck Tag No./State: 2D3679 NC

Net Weight (Pounds): ~~36000~~ 37520

Driver Name (Print): BRIAN MORVIN

Net Weight (Tons): ~~2250~~ 18.80 18.76

Weigh Master Signature: [Signature]

Inspected & Accepted By: [Signature] 3-24-94 9:20 AM

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Brian Morvin 3-24-94  
Driver Signature Date

Brian Morvin 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 2

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: *Elijah ...*

Gross Weight (Pounds): 69670

Truck #: *EM # 18*

Tare Weight (Pounds): 32810

Truck Tag No./State: \_\_\_\_\_

Net Weight (Pounds): 36860

Driver Name (Print): *Robert ...*

Net Weight (Tons): *18.43*

Weigh Master Signature: *J.R. Stephenson*

Inspected & Accepted By: *J.R. Stephenson 3-24-94 9:20 AM*

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

*[Signature]* *3-24-94*  
Driver Signature Date

*3-24-94* *[Signature]*  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 3

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: David Johnson Trucking

Gross Weight (Pounds): 69670

Truck #: DJ-3

Tare Weight (Pounds): 32,810

Truck Tag No./State: 20-3460 NC

Net Weight (Pounds): 36860

Driver Name (Print): Michael Jones

Net Weight (Tons): 18.42 18.43

Weigh Master Signature: J. P. Stephenson

Inspected & Accepted By: J. P. Stephenson 3-24-94 - 9:25 AM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Michael Jones  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Michael Jones  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 4

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203

USMC Camp Lejeune, NC

Transporter: Humphrey Trucking Gross Weight (Pounds): ~~84920~~ 84920

Truck #: HT 2 Tare Weight (Pounds): ~~33300~~ 33300

Truck Tag No./State: 2E-9753-NC Net Weight (Pounds): 51620

Driver Name (Print): Durwood Parker Net Weight (Tons): 25.80 25.80

Weigh Master Signature: J.R. Stephenson

Inspected & Accepted By: J.R. Stephenson 3-24-94 - 10:10AM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Durwood Parker 3-24-94  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Durwood Parker 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 5

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: DAVID JOHNSON

Gross Weight (Pounds): ~~35740~~ 62640

Truck #: DJ-1

Tare Weight (Pounds): ~~26900~~ 26900

Truck Tag No./State: ZD-3459

Net Weight (Pounds): 35740

Driver Name (Print): LESTER BEAN

Net Weight (Tons): 17.90 17.8

Weigh Master Signature: *J.R. Stephens*

Inspected & Accepted By: *J.R. Stephens* 3-24-94 9:45am

I hereby certify that the above named material was picked up at the waste origination site listed above.

*Lester Bean* 3-24-94  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

*Lester Bean* 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 6

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203

USMC Camp Lejeune, NC

Transporter: RT Mendous Trucking

Gross Weight (Pounds): ~~28240~~ 65760

Truck #: TM-1

Tare Weight (Pounds): ~~28240~~ 28240

Truck Tag No./State: NC LP-3512

Net Weight (Pounds): 37520

Driver Name (Print): Robert T. Mendous

Net Weight (Tons): 18.80 <sup>18.71</sup>

Weigh Master Signature: J.R. Stephens

Inspected & Accepted By: J.R. Stephens

10:55 Am 3-24-94

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Driver Signature

Date

Driver Signature

Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 7

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: Humphrey Trucking

Gross Weight (Pounds): ~~\_\_\_\_\_~~ 63760

Truck #: HT1

Tare Weight (Pounds): ~~\_\_\_\_\_~~ 27470

Truck Tag No./State: ZC 9752

Net Weight (Pounds): \_\_\_\_\_ 36120 36

Driver Name (Print): Charles Bly

Net Weight (Tons): \_\_\_\_\_ 18.10

Weigh Master Signature: J.R. Stephenson

18.159 18

Inspected & Accepted By: J.R. Stephenson - 10:40 Am 3-24-94

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Charles Bly  
Driver Signature \_\_\_\_\_ Date \_\_\_\_\_

Charles Bly  
Driver Signature \_\_\_\_\_ Date 3-24-94

**NOTICE TO TRANSPORTER:**  
**Trucks Will Not Be Permitted to Enter**  
**The Facility Without This Entrance Ticket**





# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 8

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune  
1005 Michael Road  
Jacksonville, NC 28547

Address: Chance Construction  
245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, Nc

Transporter: Howard Trucking

Gross Weight (Pounds): ~~36570~~ 65330

Truck #: BH2

Tare Weight (Pounds): 28760 28760

Truck Tag No./State: ZD 2329

Net Weight (Pounds): 36570

Driver Name (Print): Donnie Bryant

Net Weight (Tons): 18.30

Weigh Master Signature: JL Stephen

18.29 18

Inspected & Accepted By: JL Stephen 10:35 AM 3-21-94

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Donnie Bryant 3/24/94  
Driver Signature Date

Donnie Bryant 3/24/94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 9

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune  
1005 Michael Road  
Jacksonville, NC 28547

Address: Chance Construction  
245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: MORTON TRUCKING

Gross Weight (Pounds): 71980

Truck #: EM 15

Tare Weight (Pounds): 28780

Truck Tag No./State: 2D 3679 N.C.

Net Weight (Pounds): 43200

Driver Name (Print): BRIAN MOGENSEN

Net Weight (Tons): 21.60

Weigh Master Signature: J.R. Stephenson

Inspected & Accepted By: J.R. Stephenson 3-24-94 - 1:03 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Brian Mogensen 3-24-94  
Driver Signature Date

Brian Mogensen 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

*[Handwritten Signature]*

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 10

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune  
1005 Michael Road  
Jacksonville, NC 28547

Address: Chance Construction  
245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: Flycatcher marten

Gross Weight (Pounds): 69520

Truck #: Em 18

Tare Weight (Pounds): 32810

Truck Tag No./State: 20 3675

Net Weight (Pounds): 36710

Driver Name (Print): AM White

Net Weight (Tons): 18.35 18.36

Weigh Master Signature: JR Stephenson

Inspected & Accepted By: JR Stephenson 3-24-94 1:15 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

AM White 3-24-94  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

JR Stephenson 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 11

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: David Johnson Truck Gross Weight (Pounds): 72300

Truck #: 05-3 Tare Weight (Pounds): 32810

Truck Tag No./State: \_\_\_\_\_ Net Weight (Pounds): 39490

Driver Name (Print): Michael Jones Net Weight (Tons): 19.70 19.75

Weigh Master Signature: J.R. Stephenson

Inspected & Accepted By: J.R. Stephenson 3-24-94 - 7:15 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Michael Jones  
Driver Signature \_\_\_\_\_ Date \_\_\_\_\_

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Michael Jones  
Driver Signature \_\_\_\_\_ Date \_\_\_\_\_

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 12

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base  
 Address: Camp Lejeune  
1005 Michael Road  
Jacksonville, NC 28547  
 Phone: (910)451-2583

Shipping Location: ASC Recycling Facility  
 Address: Chance Construction  
245 Parker Road  
New Bern, NC  
 Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: DAVID JOHNSON Gross Weight (Pounds): 54840  
 Truck #: DT-1 Tare Weight (Pounds): 26900  
 Truck Tag No./State: ZD-3459 N.C. Net Weight (Pounds): 27940  
 Driver Name (Print): LESTER BEAN Net Weight (Tons): 14.00  
 Weigh Master Signature: JR Stephenson 13.97  
975  
 Inspected & Accepted By: JR Stephenson 3-24-94 1:35 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Lester Bean 3-24-94  
 Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Lester Bean 3-24-94  
 Driver Signature Date

**NOTICE TO TRANSPORTER:**  
 Trucks Will Not Be Permitted to Enter  
 The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 13

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road

245 Parker Road

Jacksonville, NC 28547

New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203

USMC Camp Lejeune, NC

Transporter: Humphrey Trucking

Gross Weight (Pounds): 65,700

Truck #: HT 2

Tare Weight (Pounds): 33300

Truck Tag No./State: ZE-9753 N.C

Net Weight (Pounds): 32370 32400

Driver Name (Print): Darwood Parker

Net Weight (Tons): 16.18 16.20

Weigh Master Signature: J.R. Stephen

Inspected & Accepted By: J.R. Stephen 3-24-94 - 1:45 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Darwood Parker 3-24-94  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Darwood Parker 3-24-  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 14

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road

245 Parker Road

Jacksonville, NC 28547

New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: Howard Trucking

Gross Weight (Pounds): 60620

Truck #: BH2

Tare Weight (Pounds): 28760

Truck Tag No./State: 202329

Net Weight (Pounds): 31860

Driver Name (Print): Donnie Bryant

Net Weight (Tons): 15.93

Weigh Master Signature: JR Stephens

Inspected & Accepted By: JR Stephens 3-24-94 2:20 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Donnie Bryant 3/24/94  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Donnie Bryant 3/24/94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 15

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: RT Meadows Trucking

Gross Weight (Pounds): 62280

Truck #: TM-1

Tare Weight (Pounds): 27480

Truck Tag No./State: NC LP3512

Net Weight (Pounds): 34800

Driver Name (Print): Robert T. Meadows

Net Weight (Tons): 17.40

Weigh Master Signature: J.R. Stephen

Inspected & Accepted By: J.R. Stephen 3-24-94 2:00 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Robert T. Meadows 3-24-94  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Robert T. Meadows 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket





# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 16

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road  
Jacksonville, NC 28547

245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: *Hamphy Trucking*

Gross Weight (Pounds): 62820

Truck #: *HT-1*

Tare Weight (Pounds): 27470

Truck Tag No./State: *2C9752*

Net Weight (Pounds): 35350

Driver Name (Print): *Charles Bly*

Net Weight (Tons): 17.67

Weigh Master Signature: *JR Stephen*

17.68 *ys*

Inspected & Accepted By: *JR Stephen 3-24-74 2:25 PM*

I hereby certify that the above named material was picked up at the waste origination site listed above.

*Charles Bly*  
Driver Signature \_\_\_\_\_ Date \_\_\_\_\_

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

*Charles Bly*  
Driver Signature \_\_\_\_\_ Date \_\_\_\_\_

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket



# American Soils Corporation

Keeping America Clean

GENERATOR SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

APPROVAL # CC1036

LOAD # 17

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune  
1005 Michael Road  
Jacksonville, NC 28547

Address: Chance Construction  
245 Parker Road  
New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203  
USMC Camp Lejeune, NC

Transporter: David Johnson Truck Gross Weight (Pounds): 63940

Truck #: DJ-3 Tare Weight (Pounds): 32810

Truck Tag No./State: 2D-3460NC Net Weight (Pounds): 31130

Driver Name (Print): Michael Jones Net Weight (Tons): 15.55 (15.57)

Weigh Master Signature: JR Stephens

Inspected & Accepted By: JR Stephens 3-24-94 4:00 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

Michael Jones  
Driver Signature Date

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Michael Jones  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket

332.07



# American Soils Corporation

Keeping America Clean

LAST LOAD

GENERATOR SIGNATURE: \_\_\_\_\_

APPROVAL # CC1036

LOAD # 18

## NON-HAZARDOUS WASTE MANIFEST

Generator Name: ROICC Marine Corp Base

Shipping Location: ASC Recycling Facility

Address: Camp Lejeune

Address: Chance Construction

1005 Michael Road

245 Parker Road

Jacksonville, NC 28547

New Bern, NC

Phone: (910)451-2583

Phone: (919)977-7332

Waste Description: Non-Hazardous Petroleum Contaminated Soil

Waste Origination Site (Address): Lot 203

USMC Camp Lejeune, NC

Transporter: Morton Trucking

Gross Weight (Pounds): 71060

Truck #: EM15

Tare Weight (Pounds): 28780

Truck Tag No./State: \_\_\_\_\_

Net Weight (Pounds): 42280

Driver Name (Print): BRIAN MOQUIN

Net Weight (Tons): 21.14

Weigh Master Signature: J.R. Stephenson

Inspected & Accepted By: J.R. Stephenson 3-24-94 - 4:00 PM

I hereby certify that the above named material was picked up at the waste origination site listed above.

I hereby certify that the above named material was delivered without incident to the destination (shipping location) listed above.

Brian Moquin 3-24-94  
Driver Signature Date

Brian Moquin 3-24-94  
Driver Signature Date

**NOTICE TO TRANSPORTER:**  
Trucks Will Not Be Permitted to Enter  
The Facility Without This Entrance Ticket

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

A Waste Management Company

**NON-HAZARDOUS MANIFEST**

31502

**GENERATOR**

Generator Marine Corps Base  
Address PSC Box 20004  
Camp Lejeune, N.C 28542  
Phone (910) 451-5063

L.D. # 93-D-3032-0015-024  
Generator's Shipping Location of Waste MCB Camp  
(If different from generator address) Lejeune  
Address Lot 203, Site 6  
Phone (910) 451-1809

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Battery Debris</u>	<u>50179</u>	<u>43,000</u>	<u>lbs</u>	<u>DT</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

TSMORRIS  
Generator Authorized Agent Name (Print)

[Signature] 12/19/94  
Signature Delivery Date

**TRANSPORTER**

Transporter Name Morton Trucking  
Address 121 Garnet Lane  
Jacksonville, N.C 28546

Driver Name (Print) X Doug Teechey  
Truck Number LF3  
Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

[Signature] 12/19/94  
Driver Signature Shipment Date

Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677  
Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284  
Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Signature

Receipt Date

Customer \_\_\_\_\_ Date \_\_\_\_\_  
Weighed at \_\_\_\_\_ Time \_\_\_\_\_  
Deliver To \_\_\_\_\_  
7550 Gross Truck No. CF3  
30506 Tare Material \_\_\_\_\_  
43,000 Net Price \_\_\_\_\_  
Driver \_\_\_\_\_ On  Off   
Weighed By \_\_\_\_\_

PRINTED IN U. S. A.

TRT-4 WINSLOW SCALE COMPANY - P. O. BOX 1523 - TERRE HAUTE, IN 47806 812-486-5288

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

A Waste Management Company

**NON-HAZARDOUS MANIFEST**

31503

**GENERATOR**

Generator Marine Corps Base  
Address PSC Box 20004  
Camp Lejeune, N.C 28542  
Phone (910) 451-5063

L.D. # 93-D-3032-0015-023  
Generator's Shipping Location of Waste MCB Camp  
(If different from generator address) Lejeune  
Address Lot 203, Site 6  
Phone (910) 451-1809

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
Battery Debris	50179	42,000	lbs	DT

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

TJ MORRIS  
Generator Authorized Agent Name (Print)

[Signature]  
Signature

12/19/94  
Delivery Date

**TRANSPORTER**

Transporter Name Morton Trucking  
Address 121 Garnet Lane  
JACKSONVILLE, N.C 28546

Driver Name (Print) Darwood PARKER  
Truck Number HT2  
Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above

[Signature] 12-19-94  
Driver Signature Shipment Date

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

[Signature]  
Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Signature

Receipt Date

Customer \_\_\_\_\_ Date 12-19-94  
Weighed at \_\_\_\_\_ Time \_\_\_\_\_  
Deliver To \_\_\_\_\_  
7550Gross Truck No. #12  
3350Tare Material \_\_\_\_\_  
42000Net Price \_\_\_\_\_  
Driver \_\_\_\_\_ On  Off   
Weighed By \_\_\_\_\_

PRINTED IN U. S. A.

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

A Waste Management Company

**NON-HAZARDOUS MANIFEST**

31504

**GENERATOR**

Generator MARINE Corps Base

L.D. # 93-D-3032-0015-022

Address PSC Box 20004

Generator's Shipping Location of Waste MCR Camp  
(If different from generator address) Lejune

Camp Lejune, N.C 28542

Address Lot 203, Site 6

Phone (910) 451-5063

Phone (910) 451-1809

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
Battery Debris	50149 <sup>7</sup>	41,000	lbs	PT

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

JSMORRIS  
Generator Authorized Agent Name (Print)

JSMorris  
Signature

12/19/94  
Delivery Date

**TRANSPORTER**

Transporter Name Morton Trucking

Driver Name (Print) George Pollock

Address 121 GARNET LANE

Truck Number EMIS

JACKSONVILLE, N.C 28546

Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

George Pollock 12-19-94  
Driver Signature Shipment Date

Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Signature

Receipt Date



Customer \_\_\_\_\_ Date \_\_\_\_\_

Weighed at \_\_\_\_\_ Time \_\_\_\_\_

Deliver To \_\_\_\_\_

72500 Gross      Truck No. EM15  
91500 Tare      Material \_\_\_\_\_  
41000 Net      Price \_\_\_\_\_  
Driver \_\_\_\_\_      On  Off

Weighed By \_\_\_\_\_

TRT-4 WINSLOW SCALE COMPANY - P. O. BOX 1823 - TERRE HAUTE, IN 47706 812-466-5268

PRINTED IN U. S. A.

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

A Waste Management Company

**NON-HAZARDOUS MANIFEST**

31505

**GENERATOR**

Generator MARINE CORPS BASE

L.D. # 93-D-3032-0015-021

Address PSC Box 20004  
Camp Lejeune, NC 28542

Generator's Shipping Location of Waste MCB Camp  
(If different from generator address) Lejeune

Address Lot 203, Site 6

Phone (910) 451-5063

Phone (910) 451-1809

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
Battery Debris	501729	42,000	lbs	PT

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

X TSMORRIS  
Generator Authorized Agent Name (Print)

[Signature] 12/19/94  
Signature Delivery Date

**TRANSPORTER**

Transporter Name Mortex Trucking

Driver Name (Print) GARY VAUA

Address 121 GARNET LAKE  
JACKSONVILLE, NC 28546

Truck Number CF-4

Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

[Signature]  
Driver Signature Shipment Date

[Signature] Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Signature

Receipt Date

Customer \_\_\_\_\_ Date 12-19-94

Weighed at \_\_\_\_\_ Time \_\_\_\_\_

Deliver To \_\_\_\_\_

71500 Gross

29500 Tare

42000 Net

Truck No. CF-4

Material \_\_\_\_\_

Price \_\_\_\_\_

Driver \_\_\_\_\_ On  Off

Weighed By \_\_\_\_\_

THT-4 WINSLOW SCALE COMPANY - P. O. BOX 1923 - TERRE HAUTE, IN 47806 812-466-8268

PRINTED IN U. S. A.

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

A Waste Management Company **NON-HAZARDOUS MANIFEST**

33132

**GENERATOR**

Generator Marine Corps Base  
Address PSC Box 20004  
Camp Lejeune, NC 28542  
Phone (910) 451-5063

L.D. # 93-P-3032-0015-020  
Generator's Shipping Location of Waste MLB Camp Lejeune  
(If different from generator address)  
Address Lot 203, Site 6  
Phone (910) 451-1809

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Battery Debris</u>	<u>50199</u>	<u>44,000</u>	<u>lbs</u>	<u>DT</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

T S MORRIS  
Generator Authorized Agent Name (Print)

[Signature]  
Signature

12/19/94  
Delivery Date

**TRANSPORTER**

Transporter Name Morton Trucking  
Address 121 Garnet Lane  
Jacksonville, NC 28546

Driver Name (Print) MARK E. MILLIKEN  
Truck Number CFS  
Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

[Signature]  
Driver Signature

Shipment Date

[Signature]  
Driver Signature

Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677  
Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

**Piedmont Landfill and Recycling Center**  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Signature

Receipt Date

Customer \_\_\_\_\_ Date 12/19/94

Weighed at \_\_\_\_\_ Time \_\_\_\_\_

Deliver To \_\_\_\_\_

74300 Gross

Truck No. CF5

30560 Tare

Material \_\_\_\_\_

44,000 Net

Price \_\_\_\_\_

Driver \_\_\_\_\_ On  Off

Weighed By \_\_\_\_\_

TST-A WINSLOW SCALE COMPANY - P. O. BOX 1829 - TERRE HAUTE, IN 47608 812-466-3268

PRINTED IN U. S. A.

Piedmont Landfill and Recycling Center

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

26.31

A Waste Management Company NON-HAZARDOUS MANIFEST

31542

**GENERATOR**

Generator Marine Corps Base

LD. # 93-D-3032-0015-025

Address PSC Box 20004  
Camp Lejeune, NC 28542

Generator's Shipping Location of Waste MCR Camp Lejeune  
(If different from generator address)

Address Lot 203, Site 6

Phone (910) 451-5063

Phone (910) 451-1809

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Battery Debris</u>	<u>50179</u>	<u>25</u>	<u>yds</u>	<u>CM</u> 3.48

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

FR MORRIS  
Generator Authorized Agent Name (Print)

[Signature]  
Signature

12/20/94  
Delivery Date

**TRANSPORTER**

Transporter Name WTI  
Address 2647 Shop Road  
Columbia SC 29209

Driver Name (Print) Ricky Smith  
Truck Number 178  
Truck Type CM

I hereby acknowledge receipt of the above-described materials to transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

[Signature]  
Driver Signature

20 Dec 94  
Shipment Date

[Signature]  
Driver Signature

21 Dec 94  
Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

[Signature]  
Signature

12/21/94  
Receipt Date

(DRIVER: PLEASE SIGN BELOW)

586003

REFERENCE NO.  
586003

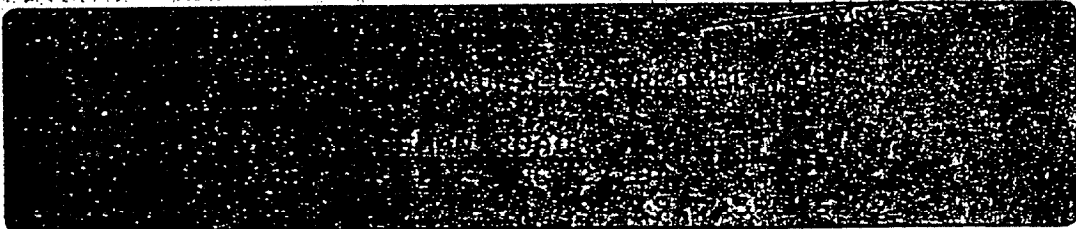


(PLEASE SIGN HERE)

*[Handwritten Signature]*

THIS SIGNATURE CERTIFIES THAT THE LOAD OR VOLUME OF WASTE BEING DISPOSED OF CONTAINS NO HAZARDOUS, INFECTIOUS, OR OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
LELIA MADGE REIGNS 2333



CUSTOMER: OHM Remed -USMC Bld 67 EMO IRO  
5335 Triangle Pkwy. Ste 450  
Norcross, GA  
COMMENTS: Manif31542;Marine corp;50179  
GEO SRC: ONSL1 Onslow County Special

MANIF 31542  
PERMIT NO. 586003

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	3.48	
	GROSS: 26.31		
	TARE : 22.83		
	NET : 3.48		

WM0080

Printed on recycled paper



# South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt  
2600 Bull Street, Columbia, SC 29201  
Phone (803) 734-5200  
Emergency & Holidays (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on a 12-pitch typewriter) Form Approved OMB No 2050-0039 Expires 9-80-9

## UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. **NC617002258099901**  
Manifest Document No. **516060 LBS**

2. Page 1 of 1  
Information in the shaded areas is not required by Federal law, but is by State law.

Generator's Name and Mailing Address  
**Commanding General  
Marine Corps Base  
PSC Boc 20004  
Camp Lejuene, NC 28542-0004**

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone ( 910 ) **451-5063**

5. Transporter 1 Company Name **(TG) INC**  
**Laidlaw Environmental Services SIC 1918175174647**

C. State Transporter's ID

D. Transporter's Phone **(803) 587-1999**

7. Transporter 2 Company Name

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address  
**Laidlaw Environmental Services of South Carolina, Inc.  
Route 1, Box 255**

G. State Facility's ID

H. Facility's Phone  
**(803) 452-5003**

10. U.S. EPA ID Number  
**SIC 1071037591815**

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit Wt./Vol

1. Waste Number

a. **Non-Regulated Solid Waste** 1210 CIW 1210 yds 7777

b.

c.

d.

Additional Descriptions for Materials Listed Above  
a. PW-02064-4102  
b.   
c.   
d.   
K. Handling Codes for Wastes Listed Above  
**R.S.S.**

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
**WO-190056**

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.  
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **TSNAORRCS** Signature *[Signature]* Month Day Year **12 22 94**

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name **H. Johnson** Signature *[Signature]* Month Day Year **12 22 94**

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

19. Discrepancy Indication Space  
a. **18500** lbs. c.   
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19  
Printed/Typed Name **Jan Todd** Signature *[Signature]* Month Day Year **12 30 94**

GENERATOR

TRANSPORTER

FACILITY



# Customer Notification And Certification

FORM A

Statements with Original Signatures will be Accepted

Generator Name/Location: MCB Camp Lejuene, NC

EPA I.D. Number: NC 6170022580

Waste Profile or ARF Designation: PW 02064-4102

Manifest Number: 99901

EPA Hazardous Waste Number(s): 7777

Waste Analysis Attached? YES \_\_\_\_\_ NO \_\_\_\_\_ On file at facility. X

### Unrestricted Waste Notification (Category 1)

If you generate a hazardous waste that is **not** a land disposal restricted waste (the waste has no applicable treatment standards), mark the statement below.

I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is not restricted as specified in 40 CFR 268, Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d).

### Restricted Waste Notification (Category 2)

If you generate a hazardous waste that is restricted from land disposal (the waste has applicable treatment standards), mark the statement below. **Note:** All appropriate standards must be accounted for. A waste may pass one or more standards and require treatment or be variances for others. In this case, all applicable categories must be checked.

I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is subject to the treatment standards specified in 40 CFR 268, Subpart D. Waste must be treated to the appropriate regulatory treatment standard, by the appropriate regulatory treatment method, qualifies for a variance as described in Category 3 below; or meets the standard as described under Category 4 below.

For hazardous debris, the waste contains the following contaminants subject to treatment (check all that apply): \_\_\_ § 268.45(b) (1)-Toxicity characteristic debris; \_\_\_ § 268.45(b) (2)-Debris contaminated with listed waste; \_\_\_ § 268.45(b) (3)-Cyanide reactive debris. This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

Responding Treatment Standard(s) \_\_\_\_\_

### Restricted Waste Variance Notification (Category 3)

If you generate a waste which does not require treatment prior to land disposal because of a variance (including a case-by-case extension under 40 CFR 268.5, a nationwide variance under 40 CFR 268 Subpart C, a no migration petition under 40 CFR 268.6, or other applicable variance), mark the statement below and list the appropriate variance in the space provided.

#### (3a) Restricted Waste Variance Notification

I notify pursuant to 40 CFR 268.7(a) (3) that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that this waste is subject to a national capacity variance under 40 CFR 268 Subpart C, or a case-by-case extension under 40 CFR 268.5, or an exemption under 40 CFR 268.6.

Applicable Variance (List the variance and give the date the waste is subject to prohibitions)

#### (3b) Hazardous Debris Extension Notification

For the hazardous debris waste stream accompanying this notification, I notify that I have made the necessary submittals to EPA pursuant to 40 CFR 268.5(g), as described in the May 14, 1993 Federal Register (Vol. 58, No. 92, page 28510) and therefore this hazardous debris shipment qualifies for the one year case-by-case extension.

Applicable Variance Date: May 8, 1994

### Restricted Waste Certification (Category 4)

If you generate a hazardous waste that is restricted from land disposal (the waste has applicable treatment standards), and the waste meets the standards as generated, mark the statement below. **Note:** All applicable standards must be accounted for. A waste may pass one or more standards and require treatment or be variances for others. In this case, all applicable categories must be checked.

I certify under penalty of law that I personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268, Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of fine and imprisonment.

Applicable Standards Passed (List the appropriate standard(s) for constituents not requiring treatment)

SIGNATURE: \_\_\_\_\_

DATE: 12/20/94



Sorbent Notification / Certification

FORM H

Generator Name: MCB Camp Lejuene, NC

EPA I.D. Number: NC 6170022580

Waste Profile or ARF Number: PW 02064-4102

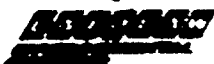
Manifest Number: 99901

Please check the box below which indicates whether or not sorbents have been added to the waste.

- Four checkbox options regarding sorbent addition and treatment: 1. Not added. 2. Added, certified non-biodegradable. 3. Added, must be incinerated. 4. Added, certified biodegradable.

Signature: [Handwritten Signature]
Printed Name: TSMORRIS

Date: 12/20/94
Title: ENV. ENG. TECH.



Laidlaw Environmental Services of SC, Inc.  
Route 1, Box 255  
Pinewood, South Carolina 29125

WORK ORDER NUMBER 1570056 **31**

MANIFEST NUMBER 6771

CUSTOMER NAME \_\_\_\_\_

PLANT LOCATION \_\_\_\_\_

VEHICLE WEIGHT:			
GROSS	12/30/94	51100 LB	
TARE	12/30/94	32600 LB	
NET		18500	

( ) FLATBED . . . . . DRUMS

( ) TANKER . . . . . GALLONS

( ) DUMP TRUCK . . . . . CUB YARDS

(X) ENCLOSED VAN . . . . . DRUMS

DATE _____
TIME IN: _____
TIME OUT: _____

TRAFFIC MANAGER	OTHER
TREATMENT	
OFF SPEC TREATMENT	
OFF SPEC	
OFF SCHEDULE	

HAULER: (signature) **31**

DRIVER: \_\_\_\_\_

1. Hazard - File Only in Order - 2. Lab Arrival - 3. Customer - 4. Accounting - 5. Manifest  
File by State





Laidlaw Environmental Services of SC, Inc.  
Route 1, Box 255  
Pinewood, South Carolina 29125

WORK ORDER NUMBER 190323  
MANIFEST NUMBER 99902  
CUSTOMER NAME \_\_\_\_\_  
PLANT LOCATION \_\_\_\_\_

VEHICLE WEIGHT:	
GROSS	52500 LB
TARE	32800 LB
NET	<u>19620</u>

- FLATBED \_\_\_\_\_ DRUMS
- TANKER \_\_\_\_\_ GALLONS
- DUMP TRUCK . est. \_\_\_\_\_ CU. YARDS
- ENCLOSED VAN \_\_\_\_\_ DRUMS

DATE _____
TIME IN: _____
TIME OUT: _____

TRAFFIC MANAGER		OTHER	
TREATMENT			
OFF SPEC TREATMENT			
OFF SPEC			
OFF SCHEDULE			

HAULER: LL

DRIVER: [Signature]

1. Hard File Daily in Order - 2. Lab Arrival - 3. Customer - 4. Accounting - Weight File by State

# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. NC 6170022580		Manifest Document No. 10021		2. Page 1 of 4		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address  (910)451-5063		U.S. MARINE CORPS Bldg. 67, ATTN: AC/S EMD IRD Camp Lejeune, NC 28540		6. US EPA ID Number		A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone ( )		5. Transporter 1 Company Name Environmental Enterprises		7. Transporter 2 Company Name		C. State Transporter's ID		D. Transporter's Phone 1-800-238-3230	
9. Designated Facility Name and Site Address CWM Resource Management, Inc. 5371 Cook Road Morrow, GA 30260		10. US EPA ID Number GAD096629282		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
						G. State Facility's ID		H. Facility's Phone (404)361-6181	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. Waste Oxidizing substance, solid, n.o.s., (Calcium Hypochlorite) 5.1, UN1479, PGII, RQ=1 lb., DDT, Lead, ERG#35 4253-08				0103 Dm		00490		P	
b. Waste Oxidizing substance, solid, n.o.s., (Calcium Hypochlorite & Chloroform) 5.1, UN1479, PGII, RQ=10 lbs., Chloroform, ERG#35 4253-02				0101 Dm		00310		P	
c. Hazardous waste liquid, n.o.s., (DDT) 9, NA3077, PGIII, RQ=10 lbs., DDT, ERG#31 4253-04 D008				0104 Dm		00460		P	
d. Hazardous waste solid, n.o.s., (DDT) 9, NA3077, PGIII, RQ=1 lb., DDT, ERG#31 4253-03				0101 Dm		00090		P	
Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information CWM RMI work order number: 13881 24-hour emergency number: (800)999-6710 PIN# 995-2790									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment: OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Eugene H Jones				Signature <i>Eugene H Jones</i>				Month Day Year 02/28/95	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Sam Williams				Signature <i>Sam Williams</i>				Month Day Year 02/28/95	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space									
Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name DHANANJAY D. DHOLAKIA				Signature <i>Dholakia</i>				Month Day Year 03/01/95	

HAZARDOUS WASTE

TRANSPORTER

FACILITY

# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. NC 6170021251801		Manifest Document No. 11021		2. Page 2 of 4		Information in the shaded areas is not required by Federal law.			
2. Generator's Name and Mailing Address  U.S. MARINE CORPS Bldg. 67, ATTN: AC/S EMD IRD Camp Lejeune, NC 28540  (910)451-5063				A. State Manifest Document Number							
4. Generator's Phone ( )				B. State Generator's ID							
5. Transporter 1 Company Name Environmental Enterprise Inc		6. US EPA ID Number FL1091841821725		C. State Transporter's ID							
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1-800-238-3234							
				E. State Transporter's ID							
				F. Transporter's Phone							
9. Designated Facility Name and Site Address CWM Resource Management, Inc. 5371 Cook Road Morrow, GA 30260				10. US EPA ID Number GAD096629182		G. State Facility's ID					
				H. Facility's Phone (404)361-6181							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
				No. Type		Quantity		Wt/Vol		Waste No.	
a. RQ, Hazardous waste liquid, n.o.s., (Lead, DDT) 9, NA3082, PGIII, (RQ=10 lbs., D008), ERG#31 CWM RMI#4253-12				01040 m		010290 P				D008, D031 P004, P059 U067	
b.											
c.											
d.											
Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information CWM RMI work order number: 13881 24-hour emergency number: (800)999-6710 PIN# 995-2790											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name Eugene H Jones				Signature <i>Eugene H Jones</i>				Month Day Year 10 22 1995			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name Sam Williams				Signature <i>Sam Williams</i>				Month Day Year 10 22 1995			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space											
Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name DHANANTAY D. DHOLAKIA				Signature <i>Dholakia</i>				Month Day Year 03 01 95			

GENERATOR

TRANSPORTER

FACILITY

# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

PLEASE PRINT OR TYPE. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. NC 6170022580	Manifest Document No. 1110211	2. Page 3 of 4	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address U.S. MARINE CORPS Bldg. 67, AC/S EMD IRD Camp Lejeune, NC 28540				A. State Manifest Document Number			
4. Generator's Phone (910)451-5063				B. State Generator's ID			
5. Transporter 1 Company Name Environmental Enterprise of Florida Inc		6. US EPA ID Number FL 1091841182725		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1-800-238-5230			
9. Designated Facility Name and Site Address CWM Resource Management, Inc. 5371 Cook Road Morrow, GA 30260		10. US EPA ID Number GA D096629282		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone (404)361-6181			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
a. Hazardous waste solid, n.o.s., (DDT, Lead) 9, NA3077, PGIII, RQ=1 lb., DDT, DDD, ERG#31, CWM RMI# 4253-06			No. Type			U060, U061 D008	
b. Waste Oxidizing substance, solid, n.o.s., (DDT, CALCIUM HYPOCHLORITE) 5.1, UN1479, PGII, RQ=1 lb., DDT, ERG#35 4253-07			01311 Dm	098510	P	D007, U061	
c. Waste corrosive solid, n.o.s., (EPA, corrosivity) 8, UN1759, PGII, ERG#60 4253-05			01012 Dm	013010	P	D002	
d. Waste Oxidizing substance, solid, corrosive, n.o.s., (Calcium Hypochlorite) 5.1, UN3085, PGII, (RQ=10 lbs., Calcium Hypochlorite) 4253-11			01011 Dm	003010	P	D001, D002	
Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information CWM RMI work order number: 13881 24-hour emergency number: (800)999-6710 PIN# 995-2790							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment: OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Eugene H Jones				Signature <i>Eugene H Jones</i>		Month Day Year 02/28/95	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Sam Williams				Signature <i>Sam Williams</i>		Month Day Year 02/28/95	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name DHANANTAY D. DHOLAKIA				Signature <i>Dholakia</i>		Month Day Year 02/01/95	



# NORTH CAROLINA HAZARDOUS WASTE MANIFEST

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

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. NQ 6170022580		Manifest Document No. 1110211		2. Page 4 of 4		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address U.S. MARINE CORPS Bldg. 67, ATTN: AC/S EMD IRD Camp Lejeune, NC 28540						A. State Manifest Document Number					
4. Generator's Phone (910)451-5063						B. State Generator's ID					
5. Transporter 1 Company Name Environmental Enterprise			6. US EPA ID Number FL01984182725			C. State Transporter's ID					
7. Transporter 2 Company Name						D. Transporter's Phone 1-800-258-3280					
8. US EPA ID Number						E. State Transporter's ID					
9. Designated Facility Name and Site Address CWM Resource Management, Inc. 5371 Cook Road Morrow, GA 30260						10. US EPA ID Number IGAD090629282					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
						No. Type				Waste No.	
a. Waste oil, RCRA and DOT non-regulated 4253-01						0102 Dm		0103110		P	
b. Waste oils and grease, RCRA and DOT non-regulated 4253-09						0101 Dm		010130		P	
c. Waste 16-6-B06-DOT and RCRA non-regulated 4253-10						0112 Dm		022710		P	
d.											
Additional Descriptions for Materials Listed Above						K: Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information CWM RMI work order number: 13881 24-hour emergency number: (800)999-6710 PIN# 995-2790											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment: OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature		Month Day Year			
Printed/Typed Name Eugene H Jones						Signature <i>Eugene H Jones</i>		Month Day Year 10/22/95			
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature		Month Day Year			
Printed/Typed Name Sam Williams						Signature <i>Sam Williams</i>		Month Day Year 10/22/95			
19. Discrepancy Indication Space											
Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Signature		Month Day Year			
Printed/Typed Name DHANANJAY D. DHOLAKIA						Signature <i>Dholakia</i>		Month Day Year 03/01/95			

GENERATOR

TRANSPORTER

FACILITY

LAND DISPOSAL RESTRICTION NOTICE  
(CWM Resource Management, Inc. - Revised 2/22/94)

GENERATOR US Marine Corp EPA ID# NC16170022580 MANIFEST# I1021

Line Item	"Wastewater" OR "Nonwastewater"	List ALL EPA Waste Code(s)	CWM RMI Profile #
a	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	D001, D008, U061	4253-08
11b	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	D001, D022	4253-02
11c	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	D008	4253-04
11d	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	U061	4253-03

PLEASE CHECK ALL ITEMS BELOW THAT APPLY IN THE COLUMN UNDER EACH APPROPRIATE MANIFEST LINE ITEM:

Treatability Groups and/or Subcategories	Treatment Reference	11a	11b	11c	11d
D001 - All descriptions based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems	1a	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
D001 - All descriptions based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC Subcategory managed in CWA/CWA-equivalent/Class I SDWA systems	1b				
D001 - All descriptions based on 40 CFR 261.21(a)(1) - High (>=10%) TOC Subcategory	1c				
D002 - Acid, alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems	2a				
D002 - Acid, alkaline, and other subcategory managed in CWA/CWA-equivalent/Class I SDWA systems	2b				
D002 - Acid, alkaline, and other subcategory that has been deactivated but otherwise has F039 constituents present above the applicable treatment standards.	2c				
D003 - Reactive Sulfides Subcategory	3c				
D003 - Reactive Cyanides Subcategory	3a				
D003 - Water Reactives Subcategory	3b				
D003 - Explosives Subcategory	3b				
D003 - Other Reactives Subcategory	3b				
D004-D005, D006 excluding Cd Batteries, D007, D008 excluding Lead Acid Batteries, D010-D011	19	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
D006 Cadmium Batteries	16				
D008 Lead Acid Batteries	17				
D012-D017 Pesticide Containing Waste	18				
F001-F005 Spent Solvent Waste	5				
F024 for Certain Process Wastes from Chlorinated Hydrocarbon Production	6				
F025 Chlorinated Aliphatic Hydrocarbon Production - Light Ends Subcategory	3a				
F025 Chlorinated Aliphatic Hydrocarbon Production - Spent Filters or Aids and Desiccants Subcategory	3a				
F037-F038 Petroleum Refining Sludges generated from Surface Impoundments	20				
F038 Petroleum Refining Sludges NOT generated from Surface Impoundments	20				
Multi-Source Leachate (Treatment Standards on Additional Sheet)	7				
F009 F007-F009 F011-F012 F019 K001 K015 K021-K022 K028 K048-K052 K083 K086-K087 K101-K102 P013 P074 P099 P104 U051	20				
K002-K005 K007-K008 K031 K046 K061-K062 K071 K084 K100 P010-P012 P036 P038 P073 P103 P110 P114 U032 U136 U144-U146 U204-U205	19				
F006 K062	51				
K006 Chrome Oxide Green Pigment Production - Anhydrous Subcategory	19				
K006 Chrome Oxide Green Pigment Production - Hydrated Subcategory	19				
F010 K009-K011 K013-K014 K016-K020 K023-K024 K029-K030 K032-K038 K040-K041 K060 K073 K085 K093-K098 K103-K105 K111 K117-K118 K131-K132 K136 P004 P020-P021 P024 P029-P030 P037 P039 P048 P050-P051 P059-P060 P063 P071 P077 P089 P094 P097-P098 P101 P106 P121 P123 U002 U004-U005 U009 U012 U018-U019 U022 U024-U025 U027-U031 U036-U037 U039 U043-U045 U047-U048 U050 U052 U060-U061 U063 U066-U072 U075-U084 U088 U101-U102 U105-U108 U111-U112 U117-U118 U120-U121 U127-U131 U137-U138 U140-U142 U152 U155 U157-U159 U161-U162 U165 U169-U170 U172 U174 U179 U181 U183 U185 U187-U188 U190 U192 U196 U203 U207-U211 U220 U225-U228 U235 U239 U243 U247	3a		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
K025	45				
K026 U042	44				
K027 K039 K113-K116	46				
K069 Wastewaters	3a				
K069 Nonwastewaters Calcium Sulfate Subcategory	4				
K069 Nonwastewaters Non-Calcium Sulfate Subcategory	17				
K107-K110 K112	12				
K123-K126 Ethylenebisdithiocarbamic Acid and its Salts Production Wastes	27				
P003 Nonwastewaters P022 P082 U038 U057 U093 U168	8				
P001 P005 P088 P102 U008 U016 U053 U055-U056 U064 U085 U089-U090 U094 U113 U122-U126 U147 U166 U182 U186 U197 U201 U213 U248	10				
P002 P007-P008 P014 P016-P018 P023 P026-P028 P034 P042 P045-P046 P049 P054 P057-P058 P064 P066-P067 P069-P070 P072 P075 P084 P093 P095 P108 P116 P118 U001 U006-U007 U010-U011 U014-U015 U017 U020-U021 U026 U033-U035 U041 U046 U049 U059 U062 U073-U074 U091-U092 U095 U097 U110 U114 U116 U119 U132 U143 U148-U150 U153 U156 U163 U164 U167 U171 U173 U176-U178 U184 U191 U193-U194 U200 U202 U206 U218-U219 U222 U234 U236-U238 U244	11				
P006 P031 P033 P096 P122 U135 U189 U246 U249	30				
P047	3a & 11				
J003	24				
J115	28				
J154 U240	23				
J328 U353	26				
J359	27				
P041 P043-P044 P062 P085 P109 U058 U087 U221 U223	32				
P048 P105 U323 U085 U096 U098-U099 U103 U109 U133 U160	33				
P078	34				
P015 P087	35				
P056 U134	36				
T13 P115 P119-P120 U214-U217	38				
K09 K106 P092 and/or T151 Wastewaters	3a				
K09 K106 P092 and/or U151 Low Mercury Subcategory (<260mc/kg) AND RMEKC Residues except for D009	4				
J92 Low Mercury (<260mc/kg) Subcategory AND INCL Residues	7				
K09 P092 High Mercury Subcategory (>260mc/kg) AND INCL Residues	7				

K106 U151 Low Mercury (<260mg/kg) Subcategory AND NOT RMERC Residues	4			
K106 U151 High Mercury (≥260mg/kg) Subcategory	40			
40 CFR 268 Appendix IV Organometallic and/or Appendix V Organic Lab Pack - Sign Certification	42			
Liquid containing Ni ≥134mg/l and/or Tl ≥130mg/l (CA List Remnant)	43			
Liquid w/ HOCs > 1000 mg/l and < 10,000 mg/l (CA List Remnant)	43			
Nonliquid w/ ≥ 1000 mg/kg HOCs or Liquid w/ ≥ 10,000 mg/l HOCs (CA List Remnant)	44			
Contaminated Debris (Hazardous Debris) [List Contaminants Subject to Treatment in Alternative Treatment Standards for Hazardous Debris Table]	50			
Hazardous Waste Subject to an Extension or Variance (enter "52", "53", or "54") and identify waste code(s): Waste Codes:				
Other - Identify the Waste Code(s) and the appropriate Treatment Standard(s) for any LDR Waste(s) and Treatment Standard(s) not otherwise specified on this form:				

List ALL Contaminants Subject to the Alternative Treatment Standards for Hazardous Debris in accordance with 40 CFR 268.45(b) for each appropriate line item:

Line Item	List of Contaminants Subject to Treatment: EP (D004-D017, not D018-D043) constituents for which debris exhibits toxicity characteristic, constituents for which BDAT standards are established (listed in 268.41 or 268.43) for listed wastes with which the debris is contaminated, and cyanide if the debris is reactive because of cyanide.
	This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

TREATMENT STANDARDS (WW-Wastewater NWW-Norwastewater)

1a	- See 40 CFR 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - DEACT and meet F039 (see F039 attachment), except for High TOC subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems
1b	- See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - DEACT, except for High TOC subcategory, and managed in CWA/CWA-equivalent/Class I SDWA systems
1c	- See 268.42 Table 2 - FSUBS; RORGS; or INCIN for High TOC ignitable liquids subcategory (> 10% organics) or low TOC ignitable liquids (<10% organics)
2a	- See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - Acid, Alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems - DEACT and meet F039 standards (see F039 attachment)
2b	- See 268.42 Table 2 - Acid and Alkaline, and other subcategory managed in CWA/CWA-equivalent/Class I SDWA systems - DEACT
2c	- See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - Acid, Alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems - meet F039 standards (see F039 attachment)
3a	- Requires treatment for constituent concentrations in the waste or treatment residue of the waste exceeding the lowest value shown in Table CCW of 40 CFR 268.43 for any hazardous constituent listed in Table CCW for that waste. - See 268.42 Table 2 - DEACT - See 268.42 Table 2 - DEACT, but no dilution as a substitute for adequate treatment
4	- Requires treatment for an extract of waste or of treatment residue of waste developed using test method (TCLP) in Appendix I (or Appendix IX for D004, D008, K031, K084, K101, K102, P010, P011, P012, P036, P038, and/or U136 wastes) of 40 CFR 261 exceeding lowest value shown in Table CCWE of 40 CFR 268.41(a) for any hazardous constituent listed in Table CCWE for that waste.
5	- See 268.43 Table CCW - Maximum WW/NWW Constituent Concentrations in Waste (CCW) in mg/l/mg/kg: Acetone .28/160; Benzene .070/3.7; n-Butyl Alcohol 5.6/2.6; Carbon Tetrachloride .057/5.6; Chlorobenzene .057/5.7; Cresol (m-,p- isomers) .77/3.2; o-Cresol .11/5.6; o-Dichlorobenzene .088/6.2; Ethyl Acetate .34/33; Ethylbenzene .057/6.0; Ethyl ether .12/160; Isobutanol 5.6/170; Methylene Chloride .089(.44 mg/l if from pharmaceutical industry)/33; Methyl Ethyl Ketone .28/36; Methyl Isobutyl Ketone .14/33; Nitrobenzene .068/14; Pyridine .014/16; Tetrachloroethylene .056/5.6; Toluene .08/28; 1,1,1-Trichloroethane .054/5.6; 1,1,2-Trichloroethane .030/7.6; Trichloroethylene .054/5.6; 1,1,2-Trichloro-1,2,2-Trifluoroethane .057/28; Trichlorofluoromethane .02/33; Xylenes (total) .32/28 AND 40 CFR 268.42(a) requires BIODG; or INCIN/INCIN for 2-Ethoxyethanol and (WETOX OR CHOXD) fb CARBN; or INCIN/INCIN for 2-Nitropropane See 268.41 Table CCWE - if Carbon Disulfide, Cyclohexanone, and/or Methanol are the only F001-F005 constituents in the waste then the Maximum WW/NWW Constituent Concentrations in Waste Extract (CCWE) in mg/l: Carbon Disulfide NA/4.8; Cyclohexanone NA/0.75; Methanol NA/0.75
6	- WW: See 40 CFR 268.42(a)-INCIN and must meet 3 above. NWW: See 40 CFR 268.42(a)-INCIN and must meet 3 and 4 above.
7	- See attachment for treatment standards for F039 Multi-Source Leachate.
8	- WW: See 3 above. NWW: See 40 CFR 268.42(a) INCIN for P022 P082 U038 U093 U168 FSUBS; or INCIN for P003 U057
10	- See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: FSUBS; or INCIN
11	- See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: INCIN
12	- See 40 CFR 268.42(a) WW: (CHOXD or BIODG) fb CARBN; or INCIN NWW: INCIN
16	- See 40 CFR 268.42(a)-RTHRN
17	- See 40 CFR 268.42(a)-RLEAD
18	- WW: See 40 CFR 268.42(a) INCIN; or BIODG for D012 D015 INCIN; or CARBN for D013 INCIN; or WETOX for D014 INCIN; CHOXD or BIODG for D016 INCIN; or CHOXD for D017 NWW: See 3 above.
19	- WW: See 3 above. NWW: See 4 above.
20	- WW: See 3 above. NWW: See 3 and 4 above.
23	- See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN and must meet 3 above. NWW: FSUBS; or INCIN(only on 240)
24	- WW: See 3 above. NWW: See 40 CFR 268.42(a)-INCIN and additionally must meet 3 above.
26	- See 40 CFR 268.42(a) WW: CHOXD fb (BIODG or CARBN); BIODG fb CARBN; or INCIN NWW: INCIN; or Thermal Destruction
27	- See 40 CFR 268.42(a) WW: CHOXD fb (BIODG or CARBN); BIODG fb CARBN; or INCIN NWW: INCIN;
28	- See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: CHOXD; or INCIN
30	- See 40 CFR 268.42(a) CHOXD; CHRED; or INCIN for P006 P096 P122 U135 U189 U249 CHOXD; WETOX; or INCIN for P031 P033 U246
32	- See 40 CFR 268.42(a) WW: CARBN; or INCIN NWW: FSUBS; or INCIN
33	- See 40 CFR 268.42(a) WW: CHOXD; CHRED; CARBN; BIODG; or INCIN NWW: FSUBS; CHOXD; CHRED; or INCIN
34	- See 40 CFR 268.42(a)- ADGAS
35	- See 40 CFR 268.42(a)- RMTL; or RTHRN
36	- WW: See 3 above. NWW: See 40 CFR 268.42(a) ADGAS fb NEUTR for P056 ADGAS fb NEUTR; or NEUTR for U134
38	- WW: See 3 above. NWW: See 40 CFR 268.42(a) RTHRN; or STABL for P113 P115 U214-U217 STABL for P119-P120
40	- See 40 CFR 268.42(a)-RMERC
41	- See 40 CFR 268.42(a)-IMERC; or RMERC
42	- See 40 CFR 268.42(c)-INCIN and additionally any incinerator residues from lab packs containing D004-D008, D010-D011 are to be treated in compliance with the applicable treatment standards specified for those wastes.
43	- See California List in RCRA section 3004(d)- If hazardous waste, appropriate treatment is required so that the waste is not prohibited.
44	- See California List in RCRA section 3004(d)- If hazardous waste, see 40 CFR 268.42(a)-INCIN
45	- See 40 CFR 268.42(a) WW: LLEXT fb SSTRP fb CARBN; or INCIN NWW: INCIN
46	- See 40 CFR 268.42(a) WW: CARBN; or INCIN (and 3 above for K115) NWW: FSUBS; or INCIN (and 4 above for K115)
50	- This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45 (EXTRC, DSTRC, and/or IMMBL).
51	- See 268.46 Table 1 and also Table CCWE in 268.41 and Table CCW in 268.43

APPLICABLE EXTENSIONS

- 52 - One Year Case-By-Case National Capacity Variance until 5/8/94 for debris contaminated w/ wastes listed in 40 CFR 268.12 and debris contaminated with any characteristic waste w/ treatment standards established in subpart D of 40 CFR 268.
- 53 - National Capacity Variance until 6/30/94 for F037-F038 generated from surface impoundment cleanouts or closures and debris contaminated with F037-F038, K107-K112, K117-K118, K123-K126, K131-K132, K136, U328, U353, U359 and/or any other newly (after 11/8/84) listed waste (e.g. K064-K066) w/ no established treatment standards.
- National Capacity Variance until 6/30/94 for K117-K118 and K131-K132 which are underground injected.

ed 2/22/94

LAND DISPOSAL RESTRICTION CERTIFICATION

Waste may be Land Disposed w/o Further Treatment Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Lab Pack Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the lab pack(s) contain(s) only the wastes specified in Appendix IV (one of those excluded is D009) OR Appendix V to Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Treated Waste Meets Standards expressed as Concentrations for Waste or Extract Certification for Line Items \_\_\_\_\_:

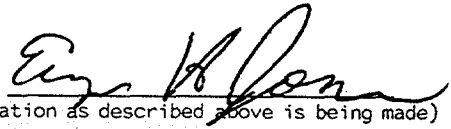
I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268, subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Waste Treated by Specified Technology Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Analytical Detection Limit Alternative Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264 subpart O, or 40 CFR part 265 subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Certification(s) Signature: 

(Required only if a certification as described above is being made)

HCOS = Halogenated Organic Carbons as listed in Appendix III of 40 CFR 268  
SS = Suspended Solids

STLC = Soluble Threshold Limit Concentration  
Metal-containing = Metals identified in Section 261.24  
Revised 2/22/94

TREATMENT STANDARDS FOR F039 MULTI-SOURCE LEACHATE

If the information on this page is applicable, please identify the manifest line item(s) 11A and circle the appropriate constituent(s).

CONSTITUENT CONCENTRATION IN WASTE-CCH

Constituent (mg/l)<sup>2</sup> WW (mg/kg)<sup>1</sup> NWW

Acetonitrile	0.17	NA
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	4.0
Aramite	0.36	NA
Aroclor 1016	0.013	0.92
Aroclor 1221	0.014	0.92
Aroclor 1232	0.013	0.92
Aroclor 1242	0.017	0.92
Aroclor 1248	0.013	0.92
Aroclor 1254	0.014	1.8
Aroclor 1260	0.014	1.8
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	36
Benzo(a)anthracene	0.059	8.2
Benzo(b)fluoranthene	0.055	3.4
Benzo(k)fluoranthene	0.059	3.4
Benzo(g,h,i)perylene	0.0055	1.5
Benzo(a)pyrene	0.061	8.2
Bromodichloromethane	0.35	15
Bromoform	0.63	15
Bromomethane	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butyl alcohol	5.6	2.6
Butyl benzyl phthalate	0.017	7.9
2-sec-Butyl-4,6-dinitrophenol	0.066	2.5
Carbon tetrachloride	0.057	5.6
Carbon disulfide	0.014	NA
Chlordane	0.0033	0.13
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	5.7
Chlorobenzilate	0.10	NA
Chloro-1,3-butadiene	0.057	NA
1,2-Dichloroethane	0.057	15
1,2-Dichloropropane	0.27	6.0
bis(2-Chloroethoxy) methane	0.036	7.2
bis(2-Chloroethyl) ether	0.033	7.2
Chloroform	0.046	5.6
bis(2-Chloroisopropyl) ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
Chloromethane	0.19	33
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropylene	0.036	28
Chrysene	0.059	8.2
o-Cresol	0.11	5.6
Cresol (m- and p-isomers)	0.77	3.2
Cyclohexanone	0.36	NA
1,2-Dibromo-3-chloropropane	0.11	15
1,2-Dibromoethane	0.028	15
Dibromomethane	0.11	15
2,4-Dichlorophenoxyacetic acid (2,4-D)	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenzo(a,h)anthracene	0.055	8.2
Dibenzo(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.2
o-Dichlorobenzene	0.088	6.2
p-Dichlorobenzene	0.090	6.2
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	7.2
1,2-Dichloroethane	0.21	7.2
1,1-Dichloroethylene	0.025	33
trans-1,2-Dichloroethene	0.054	33
1,2-Dichlorophenol	0.044	14
1,3-Dichlorophenol	0.044	14
1,1-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28

1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
Di-n-propyl nitrosamine	0.40	14
Diphenylamine	0.52	NA
1,2-Diphenyl hydrazine	0.087	NA
Diphenyl nitrosamine	0.40	NA
1,4-Dioxane	0.12	170
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl cyanide	0.24	360.0
Ethyl benzene	0.057	6.0
Ethyl ether	0.12	160
bis(2-Ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	8.2
Fluorene	0.059	4.0
Fluorotrichloromethane	0.020	33
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	37
Hexachlorobutadiene	0.055	28
Hexachlorocyclopentadiene	0.057	3.6
Hexachlorodibenzo-furans	0.000063	0.001
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachloroethane	0.055	28
Hexachloropropene	0.035	28
Indeno(1,2,3,-c,d)pyrene	0.0055	8.2
Iodomethane	0.019	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	NA
Methapyriline	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene-bis-(2-chloroaniline)	0.50	35
Methylene chloride	0.089	33
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methansulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	3.1
2-Naphtylamine	0.52	NA
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
4-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	NA
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethyl-ethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Pentachlorobenzene	0.055	37
Pentachlorodibenzo-furans	0.000063	0.001
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	3.1
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic anhydride	0.069	NA
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	19
Tetrachlorodibenzo-furans	0.000063	0.001
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	42
1,1,2,2-Tetrachloroethane	0.057	42
Tetrachloroethylene	0.056	5.6
2,3,4,6-Tetrachlorophenol	0.030	37
Toluene	0.080	28
Toxaphene	0.0095	1.3
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	5.6
1,1,2-Trichloroethane	0.054	5.6
Trichloroethylene	0.054	5.6
2,4,5-Trichlorophenol	0.18	37
2,4,6-Trichlorophenol	0.035	37
1,2,3-Trichloropropane	0.85	28
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
Tris(2,3-dibromopropyl) phosphate	0.11	NA
Vinyl chloride	0.27	33
Xylene(s)	0.32	28
Cyanides (Total)	1.2	1.8
Fluoride	35	NA
Sulfide	14	NA
Antimony	1.9	NA
Arsenic	1.4	NA
Barium	1.2	NA
Beryllium	0.82	NA
Cadmium	0.20	NA
Chromium (Total)	0.37	NA
Copper	1.3	NA
Lead	0.28	NA
Mercury	0.15	NA
Nickel	0.55	NA
Selenium	0.82	NA
Silver	0.29	NA
Thallium	1.4	NA
Vanadium	0.042	NA
Zinc	1.0	NA

Constituent Conc. in Waste Extract-CWE

Constituent	WW (mg/l)	NWW (mg/l)
Antimony	NA	0.23
Arsenic	NA	5.0
Barium	NA	52
Cadmium	NA	0.066
Chromium (Total)	NA	5.2
Lead	NA	0.51
Mercury	NA	0.025
Nickel	NA	0.32
Selenium	NA	5.7
Silver	NA	0.072

<sup>1</sup> Treatment standards were established based upon incineration in units operated in accordance with technical requirements of 40 CFR Part 264/265 Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may certify compliance with these treatment standards according to 40 CFR 268.7.

<sup>2</sup> Based on analysis of composite samples.

NA = Not Applicable  
 WW = Wastewater  
 NWW = Nonwastewater

Revised 2/22/94

LAND DISPOSAL RESTRICTION NOTICE

(CWM RESOURCE MANAGEMENT, INC. - EFFECTIVE 12/22/94)

USMC

EPA ID# NC6170022580

MANIFEST # 11021

MANIFEST LINE ITEM	WASTE-WATER (WW) or NON-WASTE WATER (NWW)	CWM WASTE PROFILE #	EPA WASTE CODES	APPLICABLE SUBDIVISION (e.g. D003 "REACTIVE CYANIDES")	LDR TREATMENT OPTION # BELOW	IF TREATMENT STANDARD PERFORMANCE BASED, ENTER APPLICABLE SECTION (e.g. "268.41") or if TREATMENT STANDARD IS A SPECIFIED TECHNOLOGY, ENTER FIVE DIGIT CODE (e.g. "FSUBS")
Page 1 of 1 11a	NWW	4253-10	N/A	N/A	N/A	N/A
11b	NWW	4253-11	D001 D002	All descriptions based on 43 CFR 261.21 (a) (1) high TOC ignitable liquids subcategory greater than or equal to 10% total organic carbon.  Acids, Alkalines & other subcategory based on 40 CR 261.22 managed in non-CWA/Non-CWA equivalent/ non-class I SDWA system.	2	DEACT
11c	NWW	4253-12	D008, P004 P031 P059 U061		1 1 2	268.41 268.43 268.42
11d						

LAND DISPOSAL RESTRICTION (LDR) TREATMENT OPTIONS:

Restricted waste that requires treatment prior to land disposal in accordance with the applicable provisions 268.40, 268.41, 268.43, and/or 268.46.

Restricted waste that requires treatment prior to land disposal in accordance with 40 CFR §268.42. For these wastes, please write in the appropriate five digit code (e.g., "FSUBS") in the last column for the appropriate manifest line item in the table above.

Restricted waste that is a hazardous debris that requires treatment prior to land disposal. "This hazardous debris is subject to the alternative debris standards of 40 CFR 268.45."

Restricted waste that requires treatment prior to land disposal for characteristic(s) and underlying hazardous constituents in accordance with the applicable provisions of RCRA §3004(d), 40 CFR §§268.32, 268.40, 268.41, 268.43, and/or 268.46.

Restricted waste that requires treatment prior to land disposal because it is a California List waste in accordance with the applicable provisions of RCRA §3004(d), 40 CFR §§268.32, 268.40, 268.41, 268.43, and/or 268.46 for the following constituent(s) or characteristic(s) (check each applicable item; please refer to page 4 of 7 for applicable treatment standards):

HOCs,  PCBs,  Acid,  Metals,  Cyanides

Other (please describe):

TREATMENT STANDARDS FOR F001 - F005 (WW=Wastewater NWW=Nonwastewater)

See 268.43 Table CCW - Maximum WW/NWW Constituent Concentrations in Waste (CCW) in mg/l/mg/kg: Acetone .28/160; Benzene .070/3.7; n-Propyl Alcohol 5.6/2.6; Carbon Disulfide 3.8/NA; Carbon Tetrachloride .057/5.6; Chlorobenzene .057/5.6; Cresol (m-,p-isomers) .77/3.2; o-Cresol .1.6; Cresol-mixed isomers (Cresylic acid) 0.88/11.2; Cyclohexanone 0.36/NA; o-Dichlorobenzene .088/6.0; Ethyl Acetate .34/33; Ethylbenzene .057/6.0; Ethyl ether .12/160; Isobutyl alcohol 5.6/170; Methanol 5.6/NA; Methylene Chloride .089(.44 mg/l if from pharmaceutical industry)/30; Methyl Ethyl Ketone .28/36; Methyl Isobutyl Ketone .14/33; Nitrobenzene .068/14; Pyridine .014/16; Tetrachloroethylene .056/5.6; Toluene .08/10; 1,1,1-Trichloroethane .054/5.6; 1,1,2-Trichloroethane .030/6.0; Trichloroethylene .054/5.6; 1,1,2-Trichloro-1,2,2-Trifluoroethane .057/28; Trichloromonofluoromethane .020/30; Xylenes-mixed isomers .32/28; AND 40 CFR 268.42(a) requires BIODG or INCIN/INCIN for F005 containing only 2-Ethoxyethanol or (WETOX OR CHOXD) fb CARBN or INCIN/INCIN for F005 containing only 2-Nitropropane.

See 268.41 Table CCWE - if Carbon Disulfide, Cyclohexanone, and/or Methanol are the only F001-F005 constituents in the waste then the Maximum WW/NWW Constituent Concentrations in Waste Extract (CCWE) in mg/l: Carbon Disulfide NA/4.8; Cyclohexanone NA/0.75; Methanol NA/0.75.

CALIFORNIA LIST TREATMENT STANDARDS -40 CFR §268.32, 40 CFR §268.42, AND RCRA §3004(d)

RESTRICTED WASTE DESCRIPTION	PROHIBITION	TREATMENT STANDARD
Wastes containing Halogenated Organic compounds (HOCs) listed in 40 CFR Appendix III	Liquid wastes greater than or equal 1000 mg/l or Nonliquid wates greater than or equal to 1000 mg/kg	40 CFR §268.42(a)(2) - INCIN
Liquid wastes containg Polychlorinated Biphenyls (PCBs)	Greater than or equal to 50 ppm	40 CFR §268.42(a)(1) - INCIN or FSUBS/Also see 40 CFR §§761.60 and 761.70
Liquid wastes containing Cyanides	Free (amenable to chlorination) cyanides greater than or equal to 1000 mg/l	RCRA §3004(d)
Liquid wastes containing metals	One or more of the following metals greater than or equal to the following: Arsenic and/or compounds: 500 mg/l Cadmium and/or compounds: 100 mg/l Chromium and/or compounds: 500 mg/l Lead and/or compounds: 500 mg/l Mercury and/or compounds: 20 mg/l Nickel and/or compounds: 134 mg/l Selenium and/or compounds: 100 mg/l Thallium and/or compounds: 130 mg/l	RCRA §3004(d)
Liquid acid wastes	pH less than or equal to 2	40 CFR §268.32 and RCRA §3004(d)

## LAND DISPOSAL RESTRICTION CERTIFICATION SECTION

(Complete and sign this section only if a Certification statement is applicable)

**1 - Certification for waste that may be land disposed without further treatment. Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**2 - Lab Pack Certification. Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the lab pack(s) contain(s) only the wastes specified in Appendix (one of those excluded is D009) OR Appendix V to Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

**3 - D001, D002, and/or D012 - D043 Certification. Waste that has been treated to remove the characteristic(s) but that requires further treatment for Underlying Hazardous Constituents. Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that the waste has been treated in accordance with 40 CFR 268.40 (or 268.41, 268.42, 268.43, or 268.45) to remove the hazardous characteristic. This decharacterized waste contains underlying constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**4 - Certification for treated waste that meets standards and is expressed in total concentration(s) for waste or waste extract concentration(s). Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268, subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**5 - Certification for waste treated by Specified Technology that meets standards. Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**6 - Analytical Detection Limit Alternative Certification. Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264 subpart O, or 40 CFR part 265 subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**7 - Certification for Hazardous Debris treated by Alternative Treatment Standard. Manifest Line Item(s) \_\_\_\_\_:**

I certify under penalty of law that the debris have been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

**8 - Certification for restricted waste subject to a National Capacity Variance, a Treatability Variance, or a Case-by Case Extension. Manifest line Item(s): \_\_\_\_\_:**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

**Certification(s) Signature:** \_\_\_\_\_

(Required only if a certification as described above is being made)

**Date:** \_\_\_\_\_



# TREATMENT STANDARDS FOR F039 MULTI-SOURCE LEACHATE AND FOR CHARACTERISTIC WASTES WITH UNDERLYING HAZARDOUS CONSTITUENTS IN TABLE UTS - UNIVERSAL TREATMENT STANDARDS

Effective 12/22/94

## CONSTITUENT CONCENTRATION WASTE-CCW except where otherwise noted

Constituent	Concentration		Constituent	Concentration		Constituent	Concentration	
	WW (mg/l)	NWW (mg/kg)		WW (mg/l)	NWW (mg/kg)		WW (mg/l)	NWW (mg/kg)
Acenaphthalene	0.059	3.4	2-Chloroethyl Vinyl ether	0.062u	NAu	Endosulfan II	0.029	0.13
Acenaphthene	0.059	3.4	Chloromethane	0.19	30	Endosulfan sulfate	0.029	0.13
Acetone	0.28	160	2-Chloronaphthalene	0.055	5.6	Endrin	0.0028	0.13
Acetonitrile	0.17	1.8u	2-Chlorophenol	0.044	5.7	Endrin aldehyde	0.025	0.13
Acetophenone	0.010	9.7	3-Chloropropylene	0.036	28	Ethyl acetate	0.34	33
2-Acetylaminofluorene	0.059	140	Chrysene	0.059	3.4	Ethyl benzene	0.057	60
Acrolein	0.29	NA	o-Cresol	0.11	5.6	Ethyl cyanide	0.24	360.0
Acrylamide	19u	23u	Cresol (m- and p-isomers)	0.77	3.2	Ethyl ether	0.12	160
Acrylonitrile	0.24	84	Cyclohexanone	0.36	0.75u	bis(2-Ethylhexyl) phthalate	0.28	28
Aldrin	0.021	0.066	1,2-Dibromo-3-chloropropane	0.11	15	Ethyl methacrylate	0.14	160
4-Aminobiphenyl	0.13	NA	1,2-Dibromoethane	0.028	15	Ethylene oxide	0.12	NA
Aniline	0.81	14	Dibromomethane	0.11	15	Famphur	0.017	15
Anthracene	0.059	3.4	2,4-Dichlorophenoxy-acetic acid (2,4-D)	0.72	10	Fluoranthene	0.068	3.4
Aramite	0.36	NA	o,p'-DDD	0.023	0.087	Fluorene	0.059	3.4
Aroclor 1016	0.013	0.92	p,p'-DDD	0.023	0.087	Fluorotrichloromethane	0.020	33
Aroclor 1221	0.014	0.92	o,p'-DDE	0.031	0.087	Heptachlor	0.0012	0.066
Aroclor 1232	0.013	0.92	p,p'-DDE	0.031	0.087	Heptachlor epoxide	0.016	0.066
Aroclor 1242	0.017	0.92	o,p'-DDT	0.0039	0.087	Hexachlorobenzene	0.055	10
Aroclor 1248	0.013	0.92	p,p'-DDT	0.0039	0.087	Hexachlorobutadiene	0.055	5.6
Aroclor 1254	0.014	1.8	Dibenz (a,h)anthracene	0.055	8.2	Hexachlorocyclopentadiene	0.057	2.4
Aroclor 1260	0.014	1.8	Dibenz (a,c)pyrene	0.061	NA	Hexachlorodibenzofurans	0.000063	0.001
alpha-BHC	0.00014	0.066	m-Dichlorobenzene	0.036	6.0	Hexachlorodibenzop-dioxins	0.000063	0.001
beta-BHC	0.00014	0.066	o-Dichlorobenzene	0.088	6.0	Hexachloroethane	0.055	28
delta-BHC	0.023	0.066	p-Dichlorobenzene	0.090	6.0	Hexachloropropene	0.035	28
gamma-BHC	0.0017	0.066	Dichlorodifluoromethane	0.23	7.2	Indeno(1,2,3-c,d)pyrene	0.0055	3.4
Benzene	0.14	10	1,1-Dichloroethane	0.059	6.0	Iodomethane	0.19	65
Benz (a)anthracene	0.059	3.4	1,2-Dichloroethane	0.21	6.0	Isobutanol	5.6	170
Benzal chloride	0.055u	6.0u	1,1-Dichloroethylene	0.025	6.0	Isodrin	0.021	0.066
Benzo(b)fluoranthene**	0.055	3.4	trans-1,2-Dichloroethene	0.054	30	Isosafrole	0.081	2.6
Benzo(k)fluoranthene**	0.059	3.4	2,4-Dichlorophenol	0.044	14	Kepone	0.0011	0.13
Benzo(g,h,i)perylene	0.0055	1.5	2,6-Dichlorophenol	0.044	14	Methacrylonitrile	0.24	84
Benzo(a)pyrene	0.061	3.4	1,2-Dichloropropane	0.85	18	Methanol	5.6	0.75u
Bromodichloromethane	0.35	15	cis-1,3-Dichloropropene	0.036	18	Methapyrene	0.081	1.5
Bromoform	0.63	15	trans-1,3-Dichloropropene	0.036	18	Methoxychlor	0.25	0.18
Bromomethane	0.11	15	Diieldrin	0.017	0.13	3-Methylcholanthrene	0.0055	15
4-Bromophenyl phenyl ether	0.055	15	Diethyl phthalate	0.20	28	4,4-Methylene-bis-(2-chloroaniline)	0.50	30
n-Butyl alcohol	5.6	2.6	2,4-Dimethyl phenol	0.036	14	Methylene chloride	0.089	30
Butyl benzyl phthalate	0.017	7.9	p-Dimethylaminoazobenzene	0.13u	NA	Methyl ethyl ketone	0.28	36
2-sec-Butyl-4,6-dinitrophenol	0.066	2.5	Dimethyl phthalate	0.047	28	Methyl isobutyl ketone	0.14	33
Carbon disulfide	0.014	4.8u	Di-n-butyl phthalate	0.057	28	Methyl methacrylate	0.14	160
Carbon tetrachloride	0.057	5.6	1,4-Dinitrobenzene	0.32	2.3	Methyl methansulfonate	0.018	NA
Chlordane	0.0033	0.13	4,6-Dinitro-o-cresol	0.28	160	Methyl parathion	0.014	4.6
p-Chloroaniline	0.46	16	2,4-Dinitrophenol	0.12	160	Naphthalene	0.059	3.1
Chlorobenzene	0.057	5.7	2,4-Dinitrotoluene	0.32	140	2-Naphthylamine	0.52	NA
Chlorobenzilate	0.10	NA	2,6-Dinitrotoluene	0.55	28	o-Nitroaniline	0.27u	14u
2-Chloro-1,3-butadiene	0.057	0.28u	Di-n-octyl phthalate	0.017	28	p-Nitroaniline	0.028	28
Chlorodibromomethane	0.057	15	Di-n-propylnitrosamine	0.40	14	Nitrobenzene	0.068	14
Chloroethane	0.27	6.0	1,4-Dioxane	0.12	170	5-Nitro-o-toluidine	0.32	28
bis(2-Chloroethoxy)methyl chloroethyl ether	0.036	7.2	Diphenylamine**	0.52	13	4-Nitrophenol	0.12	29
Chloroform	0.046	5.6	Diphenyl nitrosamine**	0.40	13	o-Nitrophenol	0.028u	13u
bis(2-Chloroisopropyl) ether	0.055	7.2	1,2-Diphenyl hydrazine	0.087	NA	p-Nitrophenol	0.12	29
p-Chloro-m-cresol	0.018	14	Disulfoton	0.017	6.2	N-Nitrosodiethylamine	0.40	28
			Endosulfan I	0.023	0.066	N-Nitrosodimethylamine	0.40	2.3
						N-Nitroso-di-n-butylamine	0.40	17
						N-Nitrosomethyl-ethylamine	0.40	2.3

N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
(Total) all isocyanates or Arochlors	0.10	10
Pentachlorobenzene	0.055	10
Pentachloroethane	0.055u	6.0u
Pentachlorodibenzofurans	0.000035	0.001
Pentachlorodibenzop-dioxins	0.000063	0.001
Pentachloronitrobenzene	0.055	4.8
Pentachloroplicnol	0.089	7.4
Phenacetic acid	0.081	16
Phenanthrene	0.059	3.1
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic anhydride	0.055	28u
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
Tetrachlorodibenzofurans	0.000063	0.001
Tetrachlorodibenzop-dioxins	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	5.6
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	13
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	5.6
1,1,2-Trichloroethane	0.054	5.6
Trichloroethylene	0.054	5.6
Trichloromonofluoromethane	0.020	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	28
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
Tris(2,3-dibromopropyl)phosphate	0.11	0.10u
Vinyl chloride	0.27	6.0
Xylene(s)(sum)	0.32	28
Antimony	1.9	2.1tc
Arsenic	1.4	5.0tc
Barium	1.2	7.6tc
Bismuth	0.82	0.014tcu
Cadmium	0.20	0.19tc
Chromium (Total)	0.37	0.86tc
Copper	1.3	NA
Cyanides (Total)	1.2	1.8
Cyanides (Amenable)	0.86	30u
Fluoride	35	NA
Lead	0.28	0.37tc

Mercury (not from retorting)	0.15	0.025tc
Mercury (all others)	0.15	0.025tc
Nickel	0.55	5.0tc
Selenium	0.82	0.16tc
Silver	0.29	0.30tc
Sulfide	14	NA
Thallium	1.4	0.078tc
Vanadium	0.042	0.23tc
Zinc*	1.0	5.3tcu

KEY

NA = Not Applicable  
 WW = Wastewater  
 NWW = Nonwastewater  
 tc = TCLP is required  
 u = Only applicable for wastes requiring identification of Table UTS constituents  
 \* = Zinc is not an "underlying hazardous constituent" in characteristic wastes.  
 \*\* = These compounds are regulated by the sum of their concentration instead of as individual constituents.  
 -Shaded information reflects information that will be revised when Georgia adopts the UTS LDR rule.

Page 2 of 3

LAND DISPOSAL RESTRICTION NOTICE  
(CWM Resource Management, Inc. - Revised 2/22/94)

GENERATOR US Marine Corp EPA ID# NC6170022580 MANIFEST# IL1021

Line Item	"Wastewater" OR "Nonwastewater"	List ALL EPA Waste Code(s)	CWM RMI Profile #
28A	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	U060, U061, D008	4253-06
28B	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	D001, U061	4253-07
28C	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	NONE	4253-01
28D	<input checked="" type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Nonwastewater	NONE	4253-09

PLEASE CHECK ALL ITEMS BELOW THAT APPLY IN THE COLUMN UNDER EACH APPROPRIATE MANIFEST LINE ITEM:

Treatability Groups and/or Subcategories	Treatment Reference	HA	HB	HC	HD
		28A	28B	28C	28D
D001 - All descriptions based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems	1a				X
D001 - All descriptions based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC Subcategory managed in CWA/CWA-equivalent/Class I SDWA systems	1b				
D001 - All descriptions based on 40 CFR 261.21(a)(1) - High (>=10%) TOC Subcategory	1c				
D002 - Acid, alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems	2a				
D002 - Acid, alkaline, and other subcategory managed in CWA/CWA-equivalent/Class I SDWA systems	2b				
D002 - Acid, alkaline, and other subcategory that has been deactivated but otherwise has F039 constituents present above the applicable treatment standards.	2c				
D003 - Reactive Sulfides Subcategory	3c				
D003 - Reactive Cyanides Subcategory	3a				
D003 - Water Reactives Subcategory	3b				
D003 - Explosives Subcategory	3b				
D003 - Other Reactives Subcategory	3b				
D004-D005, D006 excluding Cd Batteries, D007, D008 excluding Lead Acid Batteries, D010-D011	19	X			
D006 Cadmium Batteries	16				
D008 Lead Acid Batteries	17				
D012-D017 Pesticide Containing Waste	18				
F001-F005 Spent Solvent Waste	5				
F024 for Certain Process Wastes from Chlorinated Hydrocarbon Production	6				
F025 Chlorinated Aliphatic Hydrocarbon Production - Light Ends Subcategory	3a				
F025 Chlorinated Aliphatic Hydrocarbon Production - Spent Filters or Aids and Desiccants Subcategory	3a				
F037-F038 Petroleum Refining Sludges generated from Surface Impoundments	20				
-F038 Petroleum Refining Sludges NOT generated from Surface Impoundments	20				
Multi-Source Leachate (Treatment Standards on Additional Sheet)	7				
Fu06 F007-F009 F011-F012 F019 K001 K015 K021-K022 K028 K048-K052 K083 K086-K087 K101-K102 P013 P074 P099 P104 U051	20				
K002-K005 K007-K008 K031 K046 K061-K062 K071 K084 K100 P010-P012 P036 P038 P073 P103 P110 P114 U032 U136 U144-U146 U204-U205	19				
F006 K062	51				
K006 Chrome Oxide Green Pigment Production - Anhydrous Subcategory	19				
K006 Chrome Oxide Green Pigment Production - Hydrated Subcategory	19				
F010 K009-K011 K013-K014 K016-K020 K023-K024 K029-K030 K032-K038 K040-K041 K060 K073 K085 K093-K098 K103-K105 K111 K117-K118 K131-K132 K136 P004 P020-P021 P024 P029-P030 P037 P039 P048 P050-P051 P059-P060 P063 P071 P077 P089 P094 P097-P098 P101 P106 P121 P123 U002 U004-U005 U009 U012 U018-U019 U022 U024-U025 U027-U031 U036-U037 U039 U043-U045 U047-U048 U050 U052 U060-U061 U063 U066-U072 U075-U084 U088 U101-U102 U105-U108 U111-U112 U117-U118 U120-U121 U127-U131 U137-U138 U140-U142 U152 U155 U157-U159 U161-U162 U165 U169-U170 U172 U174 U179 U181 U183 U185 U187-U188 U190 U192 U196 U203 U207-U211 U220 U225-U228 U235 U239 U243 U247	3a	X	X		
K025	45				
K026 U042	44				
K027 K039 K113-K116	46				
K069 Wastewaters	3a				
K069 Nonwastewaters Calcium Sulfate Subcategory	4				
K069 Nonwastewaters Non-Calcium Sulfate Subcategory	17				
K107-K110 K112	12				
K123-K126 Ethylenebisdithiocarbamic Acid and its Salts Production Wastes	27				
P003 Nonwastewaters P022 P082 U038 U057 U093 U168	8				
P001 P005 P088 P102 U008 U016 U053 U055-U056 U064 U085 U089-U090 U094 U113 U122-U126 U147 U166 U182 U186 U197 U201 U213 U248	10				
P002 P007-P008 P014 P016-P018 P023 P026-P028 P034 P042 P045-P046 P049 P054 P057-P058 P064 P066-P067 P069-P070 P072 P075 P084 P093 P095 P108 P116 P118 U001 U006-U007 U010-U011 U014-U015 U017 U020-U021 U026 U033-U035 U041 U046 U049 U059 U062 U073-U074 U091-U092 U095 U097 U110 U114 U116 U119 U132 U143 U148-U150 U153 U156 U163 U164 U167 U171 U173 U176-U178 U184 U191 U193-U194 U200 U202 U206 U218-U219 U222 U234 U236-U238 U244	11				
P006 P031 P033 P096 P122 U135 U189 U246 U249	30				
P047	3a & 11				
U003	24				
U115	28				
U154 U240	23				
U328 U353	26				
U378	27				
P041 P043-P044 P062 P085 P109 U058 U087 U221 U223	32				
P081 P105 U023 U066 U096 U098-U099 U103 U109 U133 U160	33				
P078	34				
P015 P087	35				
P056 U134	36				
PT13 PT15 PT19-PT20 U214-U217	38				
D009 K106 P092 and/or U151 Wastewaters	3a				
D009 K106 P092 and/or U151 Low Mercury Subcategory (<260mg/kg) AND RMERC Residues except for U009	4				
P092 Low Mercury (<260mg/kg) Subcategory AND INCIN Residues	7				
D009 P092 High Mercury Subcategory (>260mg/kg) AND RMERC Residues	7				

K106 U151 Low Mercury (<260mg/kg) Subcategory AND NOT RMERC Residues	4				
K106 U151 High Mercury (≥260mg/kg) Subcategory	40				
40 CFR 268 Appendix IV Organometallic and/or Appendix V Organic Lab Pack - Sign Certification	42				
Liquid containing Ni ≥134mg/l and/or Tl ≥130mg/l (CA List Remnant)	43				
Liquid w/ HOCs ≥ 1000 mg/l and < 10,000 mg/l (CA List Remnant)	43				
Nonliquid w/ ≥ 1000 mg/kg HOCs or Liquid w/ ≥ 10,000 mg/l HOCs (CA List Remnant)	44				
Hazardous Waste Subject to an Extension or Variance (enter "52", "53", or "54") and identify waste code(s):	50				
Waste Codes:					
Other - Identify the Waste Code(s) and the appropriate Treatment Standard(s) for any LDR Waste(s) and Treatment Standard(s) not otherwise specified on this form:					

List ALL Contaminants Subject to the Alternative Treatment Standards for Hazardous Debris in accordance with 40 CFR 268.45(b) for each appropriate line item :

Line Item	List of Contaminants Subject to treatment: EP (D004-D017, not D018-D043) constituents for which debris exhibits toxicity characteristic, constituents for which BDAT standards are established (listed in 268.41 or 268.43) for listed wastes with which the debris is contaminated, and cyanide if the debris is reactive because of cyanide.
	This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

TREATMENT STANDARDS (WW-Wastewater NWW-Nonwastewater)

- 1a - See 40 CFR 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - DEACT and meet F039 (see F039 attachment), except for High TOC subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems
- 1b - See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - DEACT, except for High TOC subcategory, and managed in CWA/CWA-equivalent/Class I SDWA systems
- 1c - See 268.42 Table 2 - FSUBS; RORGS; or INCIN for High TOC ignitable liquids subcategory (> 10% organics) or low TOC ignitable liquids (<10% organics)
- 2a - See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - Acid, Alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems - DEACT and meet F039 standards (see F039 attachment)
- 2b - See 268.42 Table 2 - Acid and Alkaline, and other subcategory managed in CWA/CWA-equivalent/Class I SDWA systems - DEACT
- 2c - See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - Acid, Alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems - meet F039 standards (see F039 attachment)
- 3a - Requires treatment for constituent concentrations in the waste or treatment residue of the waste exceeding the lowest value shown in Table CCW of 40 CFR 268.43 for any hazardous constituent listed in Table CCW for that waste.
  - See 268.42 Table 2 - DEACT
  - See 268.42 Table 2 - DEACT, but no dilution as a substitute for adequate treatment
  - Requires treatment for an extract of waste or of treatment residue of waste developed using test method (TCLP) in Appendix I (or Appendix IX for D004, D008, K031, K084, K101, K102, P010, P011, P012, P036, P038, and/or U136 wastes) of 40 CFR 261 exceeding lowest value shown in Table CCWE of 40 CFR 268.41(a) for any hazardous constituent listed in Table CCWE for that waste.
- 5 - See 268.43 Table CCW - Maximum WW/NWW Constituent Concentrations in Waste (CCW) in mg/l/mg/kg: Acetone .28/160; Benzene .070/3.7; n-Butyl Alcohol 5.6/2.6; Carbon Tetrachloride .057/5.6; Chlorobenzene .057/5.7; Cresol (m-,p- isomers) .77/3.2; o-Cresol .11/5.6; o-Dichlorobenzene .088/6.2; Ethyl Acetate .34/33; Ethylbenzene .057/6.0; Ethyl ether .12/160; Isobutanol 5.6/170; Methylene Chloride .089(.44 mg/l if from pharmaceutical industry)/33; Methyl Ethyl Ketone .28/36; Methyl Isobutyl Ketone .14/33; Nitrobenzene .068/14; Pyridine .014/16; Tetrachloroethylene .056/5.6; Toluene .08/28; 1,1,1-Trichloroethane .054/5.6; 1,1,2-Trichloroethane .030/7.6; Trichloroethylene .054/5.6; 1,1,2-Trichloro-1,2,2-Trifluoroethane .057/28; Trichlorofluoromethane .02/33; Xylenes (total) .32/28 AND 40 CFR 268.42(a) requires BIODG; or INCIN/INCIN for 2-Ethoxyethanol and (WETOX OR CHOXD) fb CARBN; or INCIN/INCIN for 2-Nitropropane
- See 268.41 Table CCWE - if Carbon Disulfide, Cyclohexanone, and/or Methanol are the only F001-F005 constituents in the waste then the Maximum WW/NWW Constituent Concentrations in Waste Extract (CCWE) in mg/l: Carbon Disulfide NA/4.8; Cyclohexanone NA/0.75; Methanol NA/0.75
- 6 - WW: See 40 CFR 268.42(a)-INCIN and must meet 3 above. NWW: See 40 CFR 268.42(a)-INCIN and must meet 3 and 4 above.
- 7 - See attachment for treatment standards for F039 Multi-Source Leachate.
- 8 - WW: See 3 above. NWW: See 40 CFR 268.42(a) INCIN for P022 P082 U038 U093 U168 FSUBS; or INCIN for P003 U057
- 10 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: FSUBS; or INCIN
- 11 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: INCIN
- 12 - See 40 CFR 268.42(a) WW: (CHOXD or BIODG) fb CARBN; or INCIN NWW: INCIN
- 16 - See 40 CFR 268.42(a) -RTHRN
- 17 - See 40 CFR 268.42(a) -RLEAD
- 18 - WW: See 40 CFR 268.42(a) INCIN; or BIODG for D012 D015 INCIN; or CARBN for D013 INCIN; or WETOX for D014 INCIN; CHOXD or BIODG for D016 INCIN; or CHOXD for D017 NWW: See 3 above.
- 19 - WW: See 3 above. NWW: See 4 above.
- 20 - WW: See 3 above. NWW: See 3 and 4 above.
- 23 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN and must meet 3 above. NWW: FSUBS; or INCIN(only on 240)
- 24 - WW: See 3 above. NWW: See 40 CFR 268.42(a)-INCIN and additionally must meet 3 above.
- 26 - See 40 CFR 268.42(a) WW: CHOXD fb (BIODG or CARBN); BIODG fb CARBN; or INCIN NWW: INCIN; or Thermal Destruction
- 27 - See 40 CFR 268.42(a) WW: CHOXD fb (BIODG or CARBN); BIODG fb CARBN; or INCIN NWW: INCIN;
- 28 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: CHOXD; or INCIN
- 30 - See 40 CFR 268.42(a) CHOXD; CHRED; or INCIN for P006 P096 P122 U135 U189 U249 CHOXD; WETOX; or INCIN for P031 P033 U246
- 32 - See 40 CFR 268.42(a) WW: CARBN; or INCIN NWW: FSUBS; or INCIN
- 33 - See 40 CFR 268.42(a) WW: CHOXD; CHRED; CARBN; BIODG; or INCIN NWW: FSUBS; CHOXD; CHRED; or INCIN
- 34 - See 40 CFR 268.42(a) - ADGAS
- 35 - See 40 CFR 268.42(a) - RMTL; or RTHRN
- 36 - WW: See 3 above. NWW: See 40 CFR 268.42(a) ADGAS fb NEUTR for P056 ADGAS fb NEUTR; or NEUTR for U134
- 38 - WW: See 3 above. NWW: See 40 CFR 268.42(a) RTHRN; or STABL for P113 P115 U214-U217 STABL for P119-P120
- 40 - See 40 CFR 268.42(a)-RMERC
- 41 - See 40 CFR 268.42(a)-IMERC; or RMERC
- See 40 CFR 268.42(c)-INCIN and additionally any incinerator residues from lab packs containing D004-D008, D010-D011 are to be treated in compliance with the applicable treatment standards specified for those wastes.
- See California List in RCRA section 3004(d)- If hazardous waste, appropriate treatment is required so that the waste is not prohibited.
- 44 - See California List in RCRA section 3004(d)- If hazardous waste, see 40 CFR 268.42(a)-INCIN
- 45 - See 40 CFR 268.42(a) WW: LEXT fb SSTRP fb CARBN; or INCIN NWW: INCIN
- 46 - See 40 CFR 268.42(a) WW: CARBN; or INCIN (and 3 above for K115) NWW: FSUBS; or INCIN (and 4 above for K115)
- 50 - This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45 (EXTRC, DSTRC, and/or IMMBL).
- 51 - See 268.46 Table 1 and also Table CCWE in 268.41 and Table CCW in 268.43

APPLICABLE EXTENSIONS

- 52 - One Year Case-By-Case National Capacity Variance until 5/8/94 for debris contaminated w/ wastes listed in 40 CFR 268.12 and debris contaminated with any characteristic waste w/ treatment standards established in subpart D of 40 CFR 268.
- 53 - National Capacity Variance until 6/30/94 for F037-F038 generated from surface impoundment cleanouts or closures and debris contaminated with F037-F038, K107-K112, K117-K118, K123-K126, K131-K132, K136, U328, U353, U359 and/or any other newly (after 11/8/84) listed waste (e.g. K064-K066) w/ no established treatment standards.
- National Capacity Variance until 6/30/94 for K117-K118 and K131-K132 which are underground injected.

ed 2/22/94

LAND DISPOSAL RESTRICTION CERTIFICATION

Waste may be Land Disposed w/o Further Treatment Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Lab Pack Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the lab pack(s) contain(s) only the wastes specified in Appendix IV (one of those excluded is D009) OR Appendix V to Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Treated Waste Meets Standards expressed as Concentrations for Waste or Extract Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268, subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Waste Treated by Specified Technology Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Analytical Detection Limit Alternative Certification for Line Items \_\_\_\_\_:

I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264 subpart O, or 40 CFR part 265 subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Certification(s) Signature: \_\_\_\_\_

(Required only if a certification as described above is being made)

\_\_\_\_\_ = Halogenated Organic Carbons as listed in Appendix III of 40 CFR 268

SS = Suspended Solids

Metal-containing = Metals identified in Section 261.24

STLC = Soluble Threshold Limit Concentration  
Revised 2/22/94

TREATMENT STANDARDS FOR F039 MULTI-SOURCE LEACHATE

If the information on this page is applicable, please identify the manifest line item(s) and circle the appropriate constituent(s).

and circle the

CONSTITUENT CONCENTRATION IN WASTE-CCH

Constituent	WW (mg/l) <sup>2</sup>	NWW (mg/kg) <sup>1</sup>
Acenaphthene	0.28	160
Acenaphthalene	0.059	3.4
Acetonitrile	0.17	NA
Acetophenone	0.010	9.7
2-Acetylaminoflourene	0.059	140
Acrolein	0.29	NA
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	4.0
Aramite	0.36	NA
Aroclor 1016	0.013	0.92
Aroclor 1221	0.014	0.92
Aroclor 1232	0.013	0.92
Aroclor 1242	0.017	0.92
Aroclor 1248	0.013	0.92
Aroclor 1254	0.014	1.8
Aroclor 1260	0.014	1.8
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	36
Benzo(a)anthracene	0.059	8.2
Benzo(b)fluoranthene	0.055	3.4
Benzo(k)fluoranthene	0.059	3.4
Benzo(g,h,i)perylene	0.0055	1.5
Benzo(a)pyrene	0.061	8.2
Bromodichloromethane	0.35	15
Bromoform	0.63	15
Bromomethane	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butyl alcohol	5.6	2.6
Butyl benzyl phthalate	0.017	7.9
2-sec-Butyl-4,6-dinitrophenol	0.066	2.5
Carbon tetrachloride	0.057	5.6
Carbon disulfide	0.014	NA
Chlordane	0.0033	0.13
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	5.7
Chlorobenzilate	0.10	NA
Chloro-1,3-butadiene	0.057	NA
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-Chloroethoxy) methane	0.036	7.2
bis(2-Chloroethyl) ether	0.033	7.2
Chloroform	0.046	5.6
bis(2-Chloroisopropyl) ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
Chloromethane	0.19	33
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropylene	0.036	28
Chrysene	0.059	8.2
o-Cresol	0.11	5.6
Cresol (m- and p-isomers)	0.77	3.2
Cyclohexanone	0.36	NA
1,2-Dibromo-3-chloropropane	0.11	15
1,2-Dibromoethane	0.028	15
Dibromomethane	0.11	15
2,4-Dichlorophenoxyacetic acid (2,4-D)	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenzo(a,h)anthracene	0.055	8.2
Dibenzo(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.2
o-Dichlorobenzene	0.088	6.2
p-Dichlorobenzene	0.090	6.2
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	7.2
1,2-Dichloroethane	0.21	7.2
1,1-Dichloroethylene	0.025	33
trans-1,2-Dichloroethene	0.054	33
Dichlorophenol	0.044	14
Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28

1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
Di-n-propylnitrosamine	0.40	14
Diphenylamine	0.52	NA
1,2-Diphenyl hydrazine	0.087	NA
Diphenyl nitrosamine	0.40	NA
1,4-Dioxane	0.12	170
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl cyanide	0.24	360.0
Ethyl benzene	0.057	6.0
Ethyl ether	0.12	160
bis(2-Ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	8.2
Fluorene	0.059	4.0
Fluorotrichloromethane	0.020	33
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	37
Hexachlorobutadiene	0.055	28
Hexachlorocyclopentadiene	0.057	3.6
Hexachlorodibenzofurans	0.000063	0.001
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachloroethane	0.055	28
Hexachloropropene	0.035	28
Indeno(1,2,3,-c,d)pyrene	0.0055	8.2
Iodomethane	0.019	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	NA
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene-bis-(2-chloroaniline)	0.50	35
Methylene chloride	0.089	33
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methansulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	3.1
2-Naphtylamine	0.52	NA
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
4-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	NA
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethyl-ethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Pentachlorobenzene	0.055	37
Pentachlorodibenzofurans	0.000063	0.001
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	3.1
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic anhydride	0.069	NA
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	19
Tetrachlorodibenzofurans	0.000063	0.001
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	42
1,1,2,2-Tetrachloroethane	0.057	42
Tetrachloroethylene	0.056	5.6
2,3,4,6-Tetrachlorophenol	0.030	37
Toluene	0.080	28
Toxaphene	0.0095	1.3
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	5.6
1,1,2-Trichloroethane	0.054	5.6
Trichloroethylene	0.054	5.6
2,4,5-Trichlorophenol	0.18	37
2,4,6-Trichlorophenol	0.035	37
1,2,3-Trichloropropane	0.85	28
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
Tris(2,3-dibromopropyl) phosphate	0.11	NA
Vinyl chloride	0.27	33
Xylenes(s)	0.32	28
Cyanides (Total)	1.2	1.8
Fluoride	35	NA
Sulfide	14	NA
Antimony	1.9	NA
Arsenic	1.4	NA
Barium	1.2	NA
Beryllium	0.82	NA
Cadmium	0.20	NA
Chromium (Total)	0.37	NA
Copper	1.3	NA
Lead	0.28	NA
Mercury	0.15	NA
Nickel	0.55	NA
Selenium	0.82	NA
Silver	0.29	NA
Thallium	1.4	NA
Vanadium	0.042	NA
Zinc	1.0	NA

Constituent Conc. in Waste Extract-CONE

Constituent	WW (mg/l)	NWW (mg/l)
Antimony	NA	0.23
Arsenic	NA	5.0
Barium	NA	52
Cadmium	NA	0.066
Chromium (Total)	NA	5.2
Lead	NA	0.51
Mercury	NA	0.025
Nickel	NA	0.32
Selenium	NA	5.7
Silver	NA	0.072

<sup>1</sup> Treatment standards were established based upon incineration in units operated in accordance with technical requirements of 40 CFR Part 264/265 Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may certify compliance with these treatment standards according to 40 CFR 268.7.

<sup>2</sup> Based on analysis of composite samples.

NA = Not Applicable  
 WW = Wastewater  
 NWW = Nonwastewater

Revised 2/22/94

LAND DISPOSAL RESTRICTION NOTICE  
(CWM Resource Management, Inc. - Revised 2/22/94)

GENERATOR US Marine Corp EPA ID# NC16170022580 MANIFEST# F10211111

"Wastewater" OR "Nonwastewater"		List ALL EPA Waste Code(s)	CWM RMI Profile #
23E	<input checked="" type="checkbox"/> Wastewater <input type="checkbox"/> Nonwastewater	None	4253-05
11b	<input type="checkbox"/> Wastewater <input type="checkbox"/> Nonwastewater		
11c	<input type="checkbox"/> Wastewater <input type="checkbox"/> Nonwastewater		
11d	<input type="checkbox"/> Wastewater <input type="checkbox"/> Nonwastewater		

PLEASE CHECK ALL ITEMS BELOW THAT APPLY IN THE COLUMN UNDER EACH APPROPRIATE MANIFEST LINE ITEM:

Treatability Groups and/or Subcategories	Treatment Reference	11a	11b	11c	11d
D001 - All descriptions based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems	1a				
D001 - All descriptions based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC Subcategory managed in CWA/CWA-equivalent/Class I SDWA systems	1b				
D001 - All descriptions based on 40 CFR 261.21(a)(1) - High (>=10%) TOC Subcategory	1c				
D002 - Acid, alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems	2a				
D002 - Acid, alkaline, and other subcategory managed in CWA/CWA-equivalent/Class I SDWA systems	2b				
D002 - Acid, alkaline, and other subcategory that has been deactivated but otherwise has F039 constituents present above the applicable treatment standards.	2c				
D003 - Reactive Sulfides Subcategory	3c				
D003 - Reactive Cyanides Subcategory	3a				
D003 - Water Reactives Subcategory	3b				
D003 - Explosives Subcategory	3b				
D003 - Other Reactives Subcategory	3b				
D004-D005, D006 excluding Cd Batteries, D007, D008 excluding Lead Acid Batteries, D010-D011	19				
D006 Cadmium Batteries	16				
D008 Lead Acid Batteries	17				
D012-D017 Pesticide Containing Waste	18				
F001-F005 Spent Solvent Waste	5				
F024 for Certain Process Wastes from Chlorinated Hydrocarbon Production	6				
F025 Chlorinated Aliphatic Hydrocarbon Production - Light Ends Subcategory	3a				
F025 Chlorinated Aliphatic Hydrocarbon Production - Spent Filters or Aids and Desiccants Subcategory	3a				
F038 Petroleum Refining Sludges generated from Surface Impoundments	20				
F038 Petroleum Refining Sludges NOT generated from Surface Impoundments	20				
F000 Multi-Source Leachate (Treatment Standards on Additional Sheet)	7				
F006 F007-F009 F011-F012 F019 K001 K015 K021-K022 K028 K048-K052 K083 K086-K087 K101-K102 P013 P074 P099 P104 U051	20				
K002-K005 K007-K008 K031 K046 K061-K062 K071 K084 K100 P010-P012 P036 P038 P073 P103 P110 P114 U032 U136 U144-U146 U204-U205	19				
F006 K062	51				
K006 Chrome Oxide Green Pigment Production - Anhydrous Subcategory	19				
K006 Chrome Oxide Green Pigment Production - Hydrated Subcategory	19				
F010 K009-K011 K013-K014 K016-K020 K023-K024 K029-K030 K032-K038 K040-K041 K060 K073 K085 K093-K098 K103-K105 K111 K117-K118 K131-K132 K136 P004 P020-P021 P024 P029-P030 P037 P039 P048 P050-P051 P059-P060 P063 P071 P077 P089 P094 P097-P098 P101 P106 P121 P123 U002 U004-U005 U009 U012 U018-U019 U022 U024-U025 U027-U031 U036-U037 U039 U043-U045 U047-U048 U050 U052 U060-U061 U063 U066-U072 U075-U084 U088 U101-U102 U105-U108 U111-U112 U117-U118 U120-U121 U127-U131 U137-U138 U140-U142 U152 U155 U157-U159 U161-U162 U165 U169-U170 U172 U174 U179 U181 U183 U185 U187-U188 U190 U192 U196 U203 U207-U211 U220 U225-U228 U235 U239 U243 U247	3a				
K025	45				
K026 U042	44				
K027 K039 K113-K116	46				
K069 Wastewaters	3a				
K069 Nonwastewaters Calcium Sulfate Subcategory	4				
K069 Nonwastewaters Non-Calcium Sulfate Subcategory	17				
K107-K110 K112	12				
K123-K126 Ethylenedisithiocarbamic Acid and its Salts Production Wastes	27				
P003 Nonwastewaters P022 P082 U038 U057 U093 U168	8				
P001 P005 P088 P102 U008 U016 U053 U055-U056 U064 U085 U089-U090 U094 U113 U122-U126 U147 U166 U182 U186 U197 U201 U213 U248	10				
P002 P007-P008 P014 P016-P018 P023 P026-P028 P034 P042 P045-P046 P049 P054 P057-P058 P064 P066-P067 P069-P070 P072 P075 P084 P093 P095 P108 P116 P118 U001 U006-U007 U010-U011 U014-U015 U017 U020-U021 U026 U033-U035 U041 U046 U049 U059 U062 U073-U074 U091-U092 U095 U097 U110 U114 U116 U119 U132 U143 U148-U150 U153 U156 U163 U164 U167 U171 U173 U176-U178 U184 U191 U193-U194 U200 U202 U206 U218-U219 U222 U234 U236-U238 U244	11				
P006 P031 P033 P096 P122 U135 U189 U246 U249	30				
P047	3a & 11				
U003	24				
U115	28				
U154 U240	23				
U328 U353	26				
U?	27				
PL J41 P043-P044 P062 P085 P109 U058 U087 U221 U223	32				
P066 P081 P105 U023 U086 U096 U098-U099 U103 U109 U133 U160	33				
P078	34				
P015 P087	35				
P056 U134	36				
P113 P115 P119-P120 U214-U217	38				
W009 K105 P092 and/or U151 Wastewaters	3a				
W009 K105 P092 and/or U151 Low Mercury Subcategory (<260mg/kg) AND MERC Residues except for U109	4				
W092 Low Mercury (<260mg/kg) Subcategory AND INCIN Residues	7				
W009 P092 High Mercury Subcategory (>260mg/kg) AND INCIN Residues	7				



K106 U151 Low Mercury (<260mg/kg) Subcategory AND NOT RMERC Residues	4			
K106 U151 High Mercury (≥260mg/kg) Subcategory	40			
40 CFR 268 Appendix IV Organometallic and/or Appendix V Organic Lab Pack - Sign Certification	42			
Liquid containing Ni ≥134mg/l and/or Tl ≥130mg/l (CA List Remnant)	43			
Liquid w/ HOCs ≥ 1000 mg/l and < 10,000 mg/l (CA List Remnant)	43			
Nonliquid w/ ≥ 1000 mg/kg HOCs or Liquid w/ ≥ 10,000 mg/l HOCs (CA List Remnant)	44			
Contaminated Debris (Hazardous Debris) [List Contaminants Subject to Treatment in Alternative Treatment Standards for Hazardous Debris Table]	50			
hazardous Waste Subject to an Extension or Variance (enter "52", "53", or "54") and identify waste code(s):				
Waste Codes:				
Other - Identify the Waste Code(s) and the appropriate Treatment Standard(s) for any LDR Waste(s) and Treatment Standard(s) not otherwise specified on this form:				

List ALL Contaminants Subject to the Alternative Treatment Standards for Hazardous Debris in accordance with 40 CFR 268.45(b) for each appropriate line item:

Line Item	List of Contaminants Subject to treatment: EP (D004-D017, not D018-D043) constituents for which debris exhibits toxicity characteristic, constituents for which BDAT standards are established (listed in 268.41 or 268.43) for listed wastes with which the debris is contaminated, and cyanide if the debris is reactive because of cyanide.
	This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

TREATMENT STANDARDS (WW=Wastewater NWW=Nonwastewater)

- 1a - See 40 CFR 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - DEACT and meet F039 (see F039 attachment), except for High TOC subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems
- 1b - See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - DEACT, except for High TOC subcategory, and managed in CWA/CWA-equivalent/Class I SDWA systems
- 1c - See 268.42 Table 2 - FSUBS; RORGS; or INCIN for High TOC ignitable liquids subcategory (> 10% organics) or low TOC ignitable liquids (<10% organics)
- 2a - See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - Acid, Alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems - DEACT and meet F039 standards (see F039 attachment)
- 2b - See 268.42 Table 2 - Acid and Alkaline, and other subcategory managed in CWA/CWA-equivalent/Class I SDWA systems - DEACT
- 2c - See 268.42 Table 2, and also Table CCWE in 268.41 and Table CCW in 268.43 - Acid, Alkaline, and other subcategory managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems - meet F039 standards (see F039 attachment)
- 3a - Requires treatment for constituent concentrations in the waste or treatment residue of the waste exceeding the lowest value shown in Table CCW of 40 CFR 268.43 for any hazardous constituent listed in Table CCW for that waste.
  - See 268.42 Table 2 - DEACT
  - See 268.42 Table 2 - DEACT, but no dilution as a substitute for adequate treatment
- 4 - Requires treatment for an extract of waste or of treatment residue of waste developed using test method (TCLP) in Appendix I (or Appendix IX for D004, D008, K031, K084, K101, K102, P010, P011, P012, P036, P038, and/or U136 wastes) of 40 CFR 261 exceeding lowest value shown in Table CCWE of 40 CFR 268.41(a) for any hazardous constituent listed in Table CCWE for that waste.
- 5 - See 268.43 Table CCW - Maximum WW/NWW Constituent Concentrations in Waste (CCW) in mg/l/mg/kg: Acetone .28/160; Benzene .070/3.7; n-Butyl Alcohol 5.6/2.6; Carbon Tetrachloride .057/5.6; Chlorobenzene .057/5.6; Cresol (m-,p- isomers) .77/3.2; o-Cresol .11/5.6; o-Dichlorobenzene .088/6.2; Ethyl Acetate .34/33; Ethylbenzene .057/6.0; Ethyl ether .12/160; Isobutanol 5.6/170; Methylene Chloride .089(.44 mg/l if from pharmaceutical industry)/33; Methyl Ethyl Ketone .28/36; Methyl Isobutyl Ketone .14/33; Nitrobenzene .068/14; Pyridine .014/16; Tetrachloroethylene .056/5.6; Toluene .08/28; 1,1,1-Trichloroethane .054/5.6; 1,1,2-Trichloroethane .030/7.6; Trichloroethylene .054/5.6; 1,1,2-Trichloro-1,2,2-Trifluoroethane .057/28; Trichlorofluoromethane .02/33; Xylenes (total) .32/28 AND 40 CFR 268.42(a) requires BIODG; or INCIN/INCIN for 2-Nitropropane Ethoxyethanol and (WETOX OR CHOXD) fb CARBN; or INCIN/INCIN for 2-Nitropropane
- See 268.41 Table CCWE - if Carbon Disulfide, Cyclohexanone, and/or Methanol are the only F001-F005 constituents in the waste then the Maximum WW/NWW Constituent Concentrations in Waste Extract (CCWE) in mg/l: Carbon Disulfide NA/4.8; Cyclohexanone NA/0.75; Methanol NA/0.75
- 6 - WW: See 40 CFR 268.42(a)-INCIN and must meet 3 above. NWW: See 40 CFR 268.42(a)-INCIN and must meet 3 and 4 above.
- 7 - See attachment for treatment standards for F039 Multi-Source Leachate.
- 8 - WW: See 3 above. NWW: See 40 CFR 268.42(a) INCIN for P022 P082 U038 U093 U168 FSUBS; or INCIN for P003 U057
- 10 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: FSUBS; or INCIN
- 11 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: INCIN
- 12 - See 40 CFR 268.42(a) WW: (CHOXD or BIODG) fb CARBN; or INCIN NWW: INCIN
- 16 - See 40 CFR 268.42(a)-RTHRN
- 17 - See 40 CFR 268.42(a)-RLEAD
- 18 - WW: See 40 CFR 268.42(a) INCIN; or BIODG for D012 D015 INCIN; or CARBN for D013 INCIN; or WETOX for D014 INCIN; CHOXD or BIODG for D016 INCIN; or CHOXD for D017 NWW: See 3 above.
- 19 - WW: See 3 above. NWW: See 4 above.
- 20 - WW: See 3 above. NWW: See 3 and 4 above.
- 23 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN and must meet 3 above. NWW: FSUBS; or INCIN(only on 240)
- 24 - WW: See 3 above. NWW: See 40 CFR 268.42(a)-INCIN and additionally must meet 3 above.
- 26 - See 40 CFR 268.42(a) WW: CHOXD fb (BIODG or CARBN); BIODG fb CARBN; or INCIN NWW: INCIN; or Thermal Destruction
- 27 - See 40 CFR 268.42(a) WW: CHOXD fb (BIODG or CARBN); BIODG fb CARBN; or INCIN NWW: INCIN;
- 28 - See 40 CFR 268.42(a) WW: (WETOX or CHOXD) fb CARBN; or INCIN NWW: CHOXD; or INCIN
- 30 - See 40 CFR 268.42(a) CHOXD; CHRED; or INCIN for P006 P096 P122 U135 U189 U249 CHOXD; WETOX; or INCIN for P031 P033 U246
- 32 - See 40 CFR 268.42(a) WW: CARBN; or INCIN NWW: FSUBS; or INCIN
- 33 - See 40 CFR 268.42(a) WW: CHOXD; CHRED; CARBN; BIODG; or INCIN NWW: FSUBS; CHOXD; CHRED; or INCIN
- 34 - See 40 CFR 268.42(a)-ADGAS
- 35 - See 40 CFR 268.42(a)-RMTL; or RTHRN
- 36 - WW: See 3 above. NWW: See 40 CFR 268.42(a) ADGAS fb NEUTR for P056 ADGAS fb NEUTR; or NEUTR for U134
- 38 - WW: See 3 above. NWW: See 40 CFR 268.42(a) RTHRN; or STABL for P113 P115 U214-U217 STABL for P119-P120
- 40 - See 40 CFR 268.42(a)-RMERC
- See 40 CFR 268.42(a)-IMERC; or RMERC
- See 40 CFR 268.42(c)-INCIN and additionally any incinerator residues from lab packs containing D004-D008, D010-D011 are to be treated in compliance with the applicable treatment standards specified for those wastes.
- 43 - See California List in RCRA section 3004(d)- If hazardous waste, appropriate treatment is required so that the waste is not prohibited.
- 44 - See California List in RCRA section 3004(d)- If hazardous waste, see 40 CFR 268.42(a)-INCIN
- 45 - See 40 CFR 268.42(a) WW: LLEXT fb SSTRP fb CARBN; or INCIN NWW: INCIN
- 46 - See 40 CFR 268.42(a) WW: CARBN; or INCIN (and 3 above for K115) NWW: FSUBS; or INCIN (and 4 above for K115)
- 50 - This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45 (EXTRC, DSTRC, and/or IMMBL).
- 51 - See 268.46 Table 1 and also Table CCWE in 268.41 and Table CCW in 268.43



APPLICABLE EXTENSIONS

- 52 - One Year Case-By-Case National Capacity Variance until 5/8/94 for debris contaminated w/ wastes listed in 40 CFR 268.12 and debris contaminated with any characteristic waste w/ treatment standards established in subpart D of 40 CFR 268.
- 53 - National Capacity Variance until 6/30/94 for F037-F038 generated from surface impoundment cleanouts or closures and debris contaminated with F037-F038, K107-K112, K117-K118, K123-K126, K131-K132, K136, U328, U353, U359 and/or any other newly (after 11/8/84) listed waste (e.g. K064-K066) w/ no established treatment standards.
- 54 - National Capacity Variance until 6/30/94 for K117-K118 and K131-K132 which are underground injected.

sed 2/22/94

LAND DISPOSAL RESTRICTION CERTIFICATION

Waste may be Land Disposed w/o Further Treatment Certification for Line Items \_\_\_\_\_:  
 I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Lab Pack Certification for Line Items \_\_\_\_\_:  
 I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste and that the lab pack(s) contain(s) only the wastes specified in Appendix IV (one of those excluded is D009) OR Appendix V to Part 268 or solid wastes not subject to regulation under 40 CFR Part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Treated Waste Meets Standards expressed as Concentrations for Waste or Extract Certification for Line Items \_\_\_\_\_:  
 I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268, subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Waste Treated by Specified Technology Certification for Line Items \_\_\_\_\_:  
 I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Analytical Detection Limit Alternative Certification for Line Items \_\_\_\_\_:  
 I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264 subpart D, or 40 CFR part 265 subpart D, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

Certification(s) Signature: \_\_\_\_\_  
 (Required only if a certification as described above is being made)

• = Halogenated Organic Carbons as listed in Appendix III of 40 CFR 268  
 SS = Suspended Solids  
 Metal-containing = Metals identified in Section 261.24  
 STLC = Soluble Threshold Limit Concentration  
 Revised 2/22/94

TREATMENT STANDARDS FOR F039 MULTI-SOURCE LEACHATE

If the information on this page is applicable, please identify the manifest line item(s) and circle the appropriate constituent(s).

and circle the

CONSTITUENT CONCENTRATION IN WASTE-COEW

Constituent	WW (mg/l) <sup>2</sup>	NW (mg/kg) <sup>1</sup>
Acenaphthalene	0.059	3.4
Acenaphthene	0.059	4.0
Acetonitrile	0.17	NA
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	4.0
Aramite	0.36	NA
Aroclor 1016	0.013	0.92
Aroclor 1221	0.014	0.92
Aroclor 1232	0.013	0.92
Aroclor 1242	0.017	0.92
Aroclor 1248	0.013	0.92
Aroclor 1254	0.014	1.8
Aroclor 1260	0.014	1.8
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	36
Benzo(a)anthracene	0.059	8.2
Benzo(b)fluoranthene	0.055	3.4
Benzo(k)fluoranthene	0.059	3.4
Benzo(g,h,i)perylene	0.0055	1.5
Benzo(a)pyrene	0.061	8.2
Bromodichloromethane	0.35	15
Bromoform	0.63	15
Bromomethane	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butyl alcohol	5.6	2.6
Butyl benzyl phthalate	0.017	7.9
2-sec-Butyl-4,6-dinitrophenol	0.066	2.5
Carbon tetrachloride	0.057	5.6
Carbon disulfide	0.014	NA
Chlordane	0.0033	0.13
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	5.7
Chlorobenzilate	0.10	NA
Chloro-1,3-butadiene	0.057	NA
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-Chloroethoxy) methane	0.036	7.2
bis(2-Chloroethyl) ether	0.033	7.2
Chloroform	0.046	5.6
bis(2-Chloroisopropyl) ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
Chloromethane	0.19	33
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropylene	0.036	28
Chrysene	0.059	8.2
o-Cresol	0.11	5.6
Cresol (m- and p-isomers)	0.77	3.2
Cyclohexanone	0.36	NA
1,2-Dibromo-3-chloropropane	0.11	15
1,2-Dibromoethane	0.028	15
Dibromomethane	0.11	15
2,4-Dichlorophenoxy-acetic acid (2,4-D)	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenzo(a,h)anthracene	0.055	8.2
Dibenzo(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.2
o-Dichlorobenzene	0.088	6.2
p-Dichlorobenzene	0.090	6.2
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	7.2
1,2-Dichloroethane	0.21	7.2
1,1-Dichloroethylene	0.025	33
trans-1,2-Dichloroethene	0.054	33
Dichlorophenol	0.044	14
Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28

1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
Di-n-propylnitrosamine	0.40	14
Diphenylamine	0.52	NA
1,2-Diphenyl hydrazine	0.087	NA
Diphenyl nitrosamine	0.40	NA
1,4-Dioxane	0.12	170
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl cyanide	0.24	360.0
Ethyl benzene	0.057	6.0
Ethyl ether	0.12	160
bis(2-Ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	8.2
Fluorene	0.059	4.0
Fluorotrichloromethane	0.020	33
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	37
Hexachlorobutadiene	0.055	28
Hexachlorocyclopentadiene	0.057	3.6
Hexachlorodibenzo-furans	0.000063	0.001
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachloroethane	0.055	28
Hexachloropropene	0.035	28
Indeno(1,2,3,-c,d)pyrene	0.0055	8.2
Iodomethane	0.019	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	NA
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene-bis-(2-chloroaniline)	0.50	35
Methylene chloride	0.089	33
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methansulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	3.1
2-Naphtylamine	0.52	NA
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
4-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	NA
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethyl-ethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Pentachlorobenzene	0.055	37
Pentachlorodibenzo-furans	0.000063	0.001
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	3.1
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic anhydride	0.069	NA
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	19
Tetrachlorodibenzo-furans	0.000063	0.001
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	42
1,1,2,2-Tetrachloroethane	0.057	42
Tetrachloroethylene	0.056	5.6
2,3,4,6-Tetrachlorophenol	0.030	37
Toluene	0.080	28
Toxaphene	0.0095	1.3
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	5.6
1,1,2-Trichloroethane	0.054	5.6
Trichloroethylene	0.054	5.6
2,4,5-Trichlorophenol	0.18	37
2,4,6-Trichlorophenol	0.035	37
1,2,3-Trichloropropane	0.85	28
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
Tris(2,3-dibromopropyl) phosphate	0.11	NA
Vinyl chloride	0.27	33
Xylene(s)	0.32	28
Cyanides (Total)	1.2	1.8
Fluoride	35	NA
Sulfide	14	NA
Antimony	1.9	NA
Arsenic	1.4	NA
Barium	1.2	NA
Beryllium	0.82	NA
Cadmium	0.20	NA
Chromium (Total)	0.37	NA
Copper	1.3	NA
Lead	0.28	NA
Mercury	0.15	NA
Nickel	0.55	NA
Selenium	0.82	NA
Silver	0.29	NA
Thallium	1.4	NA
Vanadium	0.042	NA
Zinc	1.0	NA

Constituent Conc. in Waste Extract-COEW

Constituent	WW (mg/l)	NW (mg/l)
Antimony	NA	0.23
Arsenic	NA	5.0
Barium	NA	52
Cadmium	NA	0.066
Chromium (Total)	NA	5.2
Lead	NA	0.51
Mercury	NA	0.025
Nickel	NA	0.32
Selenium	NA	5.7
Silver	NA	0.072

<sup>1</sup> Treatment standards were established based upon incineration in units operated in accordance with technical requirements of 40 CFR Part 264/265 Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may certify compliance with these treatment standards according to 40 CFR 268.7.

<sup>2</sup> Based on analysis of composite samples.

NA = Not Applicable  
 WW = Wastewater  
 NW = Nonwastewater

Revised 2/22/94

### Piedmont Landfill and Recycling Center

9900 Freeman Road  
Kernersville, NC 27284  
910-595-8877

L.S. 212 774

A Waste Management Company **NON-HAZARDOUS MANIFEST**

#### GENERATOR

Generator U.S. MARINE CORPS BASE

L.D. # 93-D-3032-0015-0026

Address PSC Box 20004  
Camp LeJeune, N.C. 28542

Generator's Shipping Location of Waste MCB Camp LeJeune  
(If different from generator address)

Address LOT 203

Phone (910) 451-5063

Phone (910) 451-1809 Job # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Wire &amp; Battery Debris</u>	<u>50179</u>	<u>37100</u>	<u>lbs</u>	<u>END Dump</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Walter T. Haven  
Generator Authorized Agent Name (Print)

Walter T. Haven  
Signature 02 MAR 95  
Delivery Date

#### TRANSPORTER

Transporter Name Morton Trucking

Driver Name (Print) Luke Parker

Address 121 GARNET LANE

Truck Number EM-21

JACKSONVILLE, NC 28546

Truck Type \_\_\_\_\_

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

Luke Parker 3-2-95  
Driver Signature Shipment Date

Luke Parker 3/2/95  
Driver Signature Delivery Date

#### DESTINATION

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-8877

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
-9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Dea Morgan 3-2-95  
Signature Receipt Date

(DRIVER: PLEASE SIGN BELOW)

595897



REFERENCE NO.  
595897

(PLEASE SIGN HERE)

*Puke Carter*

THIS SIGNATURE CERTIFIES THAT THE LOAD OR VOLUME OF WASTE BEING DISPOSED OF CONTAINS NO HAZARDOUS, INFECTIOUS, OR OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GROGAN 0840

INVALID UNLESS SIGNED

PIEDMONT LANDFILL & RECYCLING

9900 FREEMAN ROAD  
KERNERSVILLE, NC 27284

(910) 595-6677

CUSTOMER NO.	TRUCK NO.	INITIALS	TIME	DATE	BATCH NO.
4763		PL	16:18:32	03/02/95	

CUSTOMER: OHM Remag. - USMC Bld 67 EMD IRU  
5335 Triangle Pkwy. Ste 450

Norcross, GA

COMMENTS: Mdanif 31527, Merton EM-21, 50

GED SRC: ONSL1 Onslow County Special W

MANIFEST NO.  
PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	18.85	
	GROSS: 34.90		
	TARE : 14.05		
	NET : 18.85		

COPY 2

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

L.5, 21-2  
774

A Waste Management Company

**NON-HAZARDOUS MANIFEST**

31526

**GENERATOR**

Generator U.S. MARINE CORPS BASE  
Address PSC Box 2004  
CAMP LEJEUNE, N.C. 28542  
Phone (910) 451-5063

L.D. # 93-D-3032-0015-0027  
Generator's Shipping Location of Waste MCB CAMP LEJEUNE  
(If different from generator address)  
Address LOT 203  
Phone (910) 451-1809 Job # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
wire Battery Debris	50179	38100	lbs.	END DUMP

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Walter T. Haven  
Generator Authorized Agent Name (Print)

Walter T. Haven  
Signature  
02 MAR 95  
Delivery Date

**TRANSPORTER**

Transporter Name MORTON Trucking  
Address 121 GARNET LANE  
JACKSONVILLE, NC 28546

Driver Name (Print) Edith's Humphrey  
Truck Number EM-25  
Truck Type \_\_\_\_\_

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

Edith's Humphrey 3-2-95  
Driver Signature Shipment Date

Edith's Humphrey 3-2-95  
Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Bea Logan 3-2-95  
Signature Receipt Date

(DRIVER: PLEASE SIGN BELOW)

59589

REFERENCE NO.

59589



(PLEASE SIGN HERE)

THIS SIGNATURE CERTIFIES THAT THE LOAD OR VOLUME OF WASTE BEING DISPOSED OF CONTAINS NO HAZARDOUS, INFECTIOUS, OR OTHER REGULATED WASTE.

*Edith ...*

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GROGAN 0640

INVALID UNLESS SIGNED

PIEDMONT LANDFILL & RECYCLING

9900 FREEMAN ROAD  
KERNERSVILLE, NC 27284

(910)595-6677

CUSTOMER NO.	TRUCK NO.	INITIALS	TIME	DATE	BATCH NO.
4763		PL	16:09:39	03/02/95	

CUSTOMER: OHM Remed. -USMC Bld 67 END IRU

5335 Triangle Pkwy. Ste 450

Norcross, GA

COMMENTS: Manif 31526, Morton EM-25,501

GEO SRC: ONSL1 Onslow County Special

MANIFEST NO.

PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	18.37	
	GROSS: 35.03		
	TARE : 16.66		
	NET : 18.37		

PIEDMONT LANDFILL

IC:9155959735

MAY 05 1995

6:55 No.001 P.03

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0811  
WVUU  
ARRR  
UUMU  
KRRG

WVUU  
ARRR

**Piedmont Landfill and Recycling Center**

9900 Freeman Road  
Kernersville, NC 27284  
910-595-8677

L. 5, 21.2  
774

31525

A Waste Management Company

**NON-HAZARDOUS MANIFEST**

**GENERATOR**

Generator U.S. MARINE CORPS BASE

L.D. # 93-D-3032-0015-0028

Address PSC Box 20004  
CAMP LEJEUNE, N.C. 28542

Generator's Shipping Location of Waste MCR Camp  
(If different from generator address) LEJEUNE

Address Lot 203

Phone (910) 451-5063

Phone (910) 451-1809 JOB # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Wired Battery Debris</u>	<u>50179</u>	<u>31000</u>	<u>lbs.</u>	<u>END Dump</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Walter T. Haven  
Generator Authorized Agent Name (Print)

Walter T. Haven  
Signature 02 MAR 95  
Delivery Date

**TRANSPORTER**

Transporter Name MARTON TRUCKING  
Address 121 GARNET LANE  
JACKSONVILLE, N.C. 28546

Driver Name (Print) STIM JONES  
Truck Number FM-16  
Truck Type END Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

[Signature] 3-2-95  
Driver Signature Shipment Date

[Signature] 3-2-95  
Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

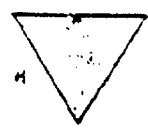
Authorized Agent

[Signature] 3-2-95  
Signature Receipt Date

(DRIVER: PLEASE SIGN BELOW)

595911

REFERENCE NO.  
595911



(PLEASE SIGN HERE)

*J. / on*

THIS SIGNATURE CERTIFIES THAT  
THE LOAD OR VOLUME OF WASTE  
BEING DISPOSED OF CONTAINS NO  
HAZARDOUS, INFECTIOUS, OR  
OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GROGAN 0640

INVALID UNLESS SIGNED

PIEDMONT LANDFILL & RECYCLING

9900 FREEMAN ROAD  
KERNERSVILLE, NC 27284

(910)595-6677

CUSTOMER NO.	TRUCK NO.	INITIALS	TIME	DATE	BATCH NO.
4763		PL	16:57	03/02/95	

CUSTOMER: OHM Remed.-USMC Bld 67 EMD IRO  
5335 Triangle Pkwy. Ste 450  
Norcross, GA

COMMENTS: Manif 31525, Morton EM-16,501  
GEO SRC: ONSLI Onslow County Special W

MANIFEST NO.  
PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	18.33	
	GROSS: 32.72		
	TARE : 14.39		
	NET : 18.33		

COPY



Piedmont Landfill and Recycling Center

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

L5, 212 774

A Waste Management Company **NON-HAZARDOUS MANIFEST**

**GENERATOR**

Generator U.S. MARINE CORPS BASE  
Address PSC BOX 20004  
CAMP LE JEUNE, N.C. 28542  
Phone (910) 451-5063

L.D. # 93-D-3032-0015-0029  
Generator's Shipping Location of Waste MCB CAMP  
(If different from generator address) LeJeune  
Address LOT 203  
Phone (910) 451-1809 Job # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Wired BATTERY DeBRIS</u>	<u>50179</u>	<u>32100</u>	<u>lbs.</u>	<u>END DUMP</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Walter T. Haven Generator Authorized Agent Name (Print)      Walter T. Haven Signature      02 MAR 95 Delivery Date

**TRANSPORTER**

Transporter Name Moeter Trucking  
Address 1216 BARNET LANE  
JACKSONVILLE, N.C. 28546

Driver Name (Print) GARY MACK  
Truck Number EM-11  
Truck Type TT

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

Gary Mack Driver Signature      3-2-95 Shipment Date      Gary Mack Driver Signature      3-2-95 Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677  
Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284  
Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Dea Y. [Signature] Signature      3-2-95 Receipt Date

Authorized Agent

Piedmont Landfill and Recycling Center

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

L.S., 205  
773

31529

A Waste Management Company

NON-HAZARDOUS MANIFEST

GENERATOR

Generator MARINE CORPS BASE

LD. # 93-D-3032-0015-0030

Address FSC Box 20004  
CAMP, Le Jouve N.C. 28542

Generator's Shipping Location of Waste MCR CAMP  
(If different from generator address) LE JOUVE

Address Lot 203

Phone (910) 451-5063

Phone (910) 451-1809 Job # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>WIRE &amp; BATTERY DEBRIS</u>	<u>SW179</u>	<u>39100</u>	<u>lbs.</u>	<u>END DUMP</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

N. Neal Paul  
Generator Authorized Agent Name (Print)

N. Neal Paul  
Signature

3.3.95  
Delivery Date

TRANSPORTER

Transporter Name Morton Trucking  
Address 121 GARRET LANE  
JACKSONVILLE, N.C. 28546

Driver Name (Print) GARY MACK  
Truck Number EM-111  
Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Gary Mack 3-3-95  
Driver Signature Shipment Date

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

Gary Mack 3-3-95  
Driver Signature Delivery Date

DESTINATION

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Dea Morgan 3-3-95  
Signature Receipt Date

(DRIVER: PLEASE SIGN BELOW)

596048

REFERENCE NO.  
596048



(PLEASE SIGN HERE)

*Ray M. B.*

THIS SIGNATURE CERTIFIES THAT  
THE LOAD OR VOLUME OF WASTE  
BEING DISPOSED OF CONTAINS NO  
HAZARDOUS, INFECTIOUS, OR  
OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GROCAN 0640

INVALID UNLESS SIGNED

PIEDMONT LANDFILL & RECYCLING

9900 FREEMAN ROAD  
KERNERSVILLE, NC 27284

(910) 595-6677

CUSTOMER NO.	TRUCK NO.	INITIALS	TIME	DATE	BATCH NO.
4763		BG	13/50/21	03/03/95	

CUSTOMER: OHM Remed.-USMC Bld 67 EMO IRD

5335 Triangle Pkwy. Ste 450  
Norcross, GA

COMMENTS: Manif 31529, Morton EM-11,501  
GEO SRC: ONSL1 Onslow County Special W

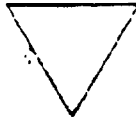
MANIFEST NO.  
PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	19.13	
	GROSS: 34.20		
	TARE : 15.07		
	NET : 19.13		

(DRIVER: PLEASE SIGN BELOW)

596045

REFERENCE NO.  
596045



(PLEASE SIGN HERE)

*[Handwritten Signature]*

THIS SIGNATURE CERTIFIES THAT  
THE LOAD OR VOLUME OF WASTE  
BEING DISPOSED OF CONTAINS NO  
HAZARDOUS, INFECTIOUS, OR  
OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GROGAN 8640

*[Handwritten Signature]*

INVALID UNLESS SIGNED

PIEDMONT LANDFILL & RECYCLING  
9900 FREEMAN ROAD  
KERNERSVILLE, NC 27284  
(910)595-6677

CUSTOMER NO.	TRUCK NO.	INITIAL TIME	DATE	BATCH NO.
4763		BG 13:45:48	03/03/95	

CUSTOMER: OHM Remed. - USMC Bld 67 EMU TRD  
5335 Triangle Pkwy. Ste 450  
Norcross, GA

COMMENTS: Manif 31531, Morton EM-21, 501  
GEO SRC: UNSL1 Onslow County Special

MANIFEST NO.  
PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	21.19	
	GROSS: 36.95		
	TARE : 15.76		
	NET : 21.19		

COPY 2

Piedmont Landfill and Recycling Center

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

L5, 205  
773

3/15

A Waste Management Company NON-HAZARDOUS MANIFEST

**GENERATOR**

Generator U.S. MARINE CORPS BASE L.D. # 93-D-3032-0015-0032  
 Address PSC Box 20004 Generator's Shipping Location of Waste MAR CAMP  
CAMP LeJeune, NC 28542 (If different from generator address) LeJeune  
 Address Lot 203  
 Phone (910) 451-5063 Phone (910) 451-1809 JOB # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Wire &amp; BATTERY Debris</u>	<u>50179</u>	<u>41230</u>	<u>lbs.</u>	<u>END Dump</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

N. Neal Paul N. Neal Paul 3-3-95  
 Generator Authorized Agent Name (Print) Signature Delivery Date

**TRANSPORTER**

Transporter Name MORTON TRUCKING Driver Name (Print) Eddie Thompson  
 Address 121 GARNET LANE Truck Number EM-25  
JACKSONVILLE, N.C. 28546 Truck Type END dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

Eddie Thompson 3-3-95 Eddie Thompson 3-3-95  
 Driver Signature Shipment Date Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Signature

Receipt Date

Dee Morgan 3-3-95  
 Signature Receipt Date

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

LS, 205 773

A Waste Management Company NON-HAZARDOUS MANIFEST 31534

**GENERATOR**

Generator U.S. Marine Corps Base L.D. # 93-D-3032-0038  
Address RSC Box 2004 Generator's Shipping Location of Waste MCR CAMP  
CAMP Le JEUNE, N.C. 28542 (if different from generator address) LE JEUNE  
Address Lot 203  
Phone (910) 451-5063 Phone 910 451-1209 Job # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>wire &amp; Battery Dreble's</u>	<u>50179</u>	<u>40200</u>	<u>lbs.</u>	<u>End Dump</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

N. Neal Paul N. Neal Paul 3.3.95  
Generator Authorized Agent Name (Print) Signature Delivery Date

**TRANSPORTER**

Transporter Name Morton Trucking Driver Name (Print) Tim Jones  
Address 1216 Airport Lane Truck Number EM #16  
Jacksonville, N.C. 27546 Truck Type End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.  
Tim Jones 3-3-95  
Driver Signature Shipment Date

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.  
Tim Jones 3-3-95  
Driver Signature Delivery Date

**DESTINATION**

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677  
Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284  
Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Bea Ingram 3-3-95  
Authorized Agent Signature Receipt Date

(DRIVER: PLEASE SIGN BELOW)

596047

REFERENCE NO.  
596047



(PLEASE SIGN HERE)

*[Handwritten Signature]*

THIS SIGNATURE CERTIFIES THAT THE LOAD OR VOLUME OF WASTE BEING DISPOSED OF CONTAINS NO HAZARDOUS, INFECTIOUS, OR OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GROGAN 0840

~~INVALID UNLESS SIGNED~~

PIEDMONT LANDFILL & RECYCLING

9900 FREEMAN ROAD  
KERNERSVILLE, NC 27284

(910)395-6677

CUSTOMER NO.	TRUCK NO.	INITIALS	TIME	DATE	BATCH NO.
4763		BG	13:48:51	03/03/95	

CUSTOMER: OHM Remed.-USMC Bld 67 EMO IRD  
5335 Triangle Pkwy. Ste 450

Norcross, GA

COMMENTS: Manif 31534, Morton EM16,5017

GEO SRC: ONSL1 Onslow County Special W

MANIFEST NO. \_\_\_\_\_

PERMIT NO. \_\_\_\_\_

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	20.13	
	GROSS: 34.53		
	TARE : 14.40		
	NET : 20.13		

COPY 2

Piedmont Landfill and Recycling Center

9900 Freeman Road  
Kernersville, NC 27284  
910-595-6677

L.S, 20.5

273

A Waste Management Company

NON-HAZARDOUS MANIFEST

GENERATOR

Generator L.S. MARINE CORPS BASE L.D. # 93-A-3032-0015-31

Address PSC Box 20004  
CAMP LEJEUNE, N.C 28542

Generator's Shipping Location of Waste MC RCAMP  
(If different from generator address) LEJEUNE

Phone (910) 451-5063

Address Lot 203  
Phone (910) 451-1809 Job # 15226

Description of Waste Materials	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Wire &amp; Battery DeBRIS</u>	<u>50179</u>	<u>40100</u>	<u>lbs.</u>	<u>END Dump</u>

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

N. Neal Paul  
Generator Authorized Agent Name (Print)

N. Neal Paul 3-3-95  
Signature Delivery Date

TRANSPORTER

Transporter Name MORTON TRACKING  
Address 121 GARNET LANE  
JACKSONVILLE, N.C 28546

Driver Name (Print) LUKE PARKER  
Truck Number EM-21  
Truck Type END Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

I hereby acknowledge that the above-described materials were received from the generator site and were transported without incident to the destination listed below.

Luke Parker 3-3-95  
Driver Signature Shipment Date

LUKE PARKER 3-3-95  
Driver Signature Delivery Date

DESTINATION

Site Name PIEDMONT LANDFILL AND RECYCLING CENTER Phone Number (910) 595-6677

Address 9900 FREEMAN ROAD, KERNERSVILLE, NC 27284

Disposal Location: SAME

I hereby acknowledge receipt of the above-described materials.

Piedmont Landfill and Recycling Center  
9900 Freeman Road  
Kernersville, NC 27284

Authorized Agent

Ben Morgan 3-3-95  
Signature Receipt Date



MARK

(DRIVER: PLEASE SIGN BELOW)

596040



REFERENCE NO.  
596040

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(PLEASE SIGN HERE)

*Edith J. ...*

THIS SIGNATURE CERTIFIES THAT THE LOAD OR VOLUME OF WASTE BEING DISPOSED OF CONTAINS NO HAZARDOUS, INFECTIOUS, OR OTHER REGULATED WASTE.

NORTH CAROLINA  
PUBLIC WEIGHTMASTER  
LICENSE EXPIRES JUNE 30, 1995  
BEA GREEN 0640

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INVALID UNLESS SIGNED  
PIEDMONT LANDFILL & RECYCLING  
7900 FREEMAN ROAD  
KERNERSVILLE, NC 27284  
(910) 595-6677

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CUSTOMER NO.	TRUCK NO.	INITIALS	TIME	DATE	BATCH NO.
4763		BG	13:38:41	03/03/95	

CUSTOMER: OHM Remed.-USMC Bid 67 EMD IRO  
5305 Triangle Pkwy. Ste 450  
Norcross, GA

MANIFEST NO.  
PERMIT NO.

COMMENTS: Manif 31533 Morton 25, 50179-S  
GEN SRC: ONSL: Onslow County Special W

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LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
681	SPECIAL WASTE	20.59	
	GROSS: 37.15		
	TARE : 16.56		
	NET : 20.59		

COPY

Printed on 100% Recycled Paper

**Appendix D**  
**Disposal Certification**



# American Soils Corporation

Keeping America Clean

## CERTIFICATE OF RECYCLING

Under the jurisdiction of the state of North Carolina, and by the authority granted us through the Department of Environmental Management (permit no. 6507R3), American Soils Corporation does hereby certify that 332.10 tons of petroleum contaminated soil received from:

Generator:

ROICC MCB Camp Lejeune  
1005 Michael Road  
Camp Lejeune, NC 28547

Job Site:

MCB Camp Lejeune  
Lot 203  
Camp Lejeune, NC

have been properly recycled in accordance with North Carolina State regulations.

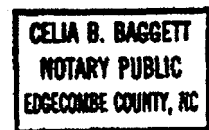
NAME: Jim Fox TITLE: Project Manager

\*\*\*\*\*

Witness my hand and official seal this 16 day of May, 1994.

Notary Public: Celia B. Baggett

My Commission Expires: 10-26-98





# HAZARDOUS MATERIALS WASTE DISPOSAL

## CERTIFICATE OF COMPLIANCE AND DISPOSAL

I certify that on 12/10/94 waste material received from DRMO-Camp Lejeune for work order # 190034, item PW# 02064-4102, described on South Carolina manifest # 99901, line 11-A, was disposed of in compliance with all state and federal laws and regulations, including 40CFR parts 260 through 268.

Facility Name: Laidlaw Environmental Services of SC, Inc  
 Facility Address: Route 1, Box 255, Pinewood, SC 29125  
 Facility EPA ID Number: SCD070375985

By: SANDY WHEELER  
 Signature: *Sandy Wheeler*  
 Title: REGULATORY COORDINATOR  
 Date: MAY 05, 1995

Pinewood, SC

Operations



# HAZARDOUS MATERIALS WASTE DISPOSAL

## CERTIFICATE OF COMPLIANCE AND DISPOSAL

I certify that on 01/10/95 waste material received from DEMO-Camp Lejeune for work order # 190323, item PW# 02054-4102, described on South Carolina manifest # 99902, line 11-A, was disposed of in compliance with all state and federal laws and regulations, including 40CFR parts 260 through 268.

Facility Name: Laidlaw Environmental Services of SC, Inc  
Facility Address: Route 1, Box 255, Pinewood, SC 29125  
Facility EPA ID Number: SCD070375985

By: SANDY WHEELER  
Signature: *Sandy Wheeler*  
Title: REGULATORY COORDINATOR  
Date: MAY 05, 1995

Pinewood, SC

Operations

4-Sep-96



CWM Resource Management, Inc.

1374 Coor. Road  
Morrow, Georgia 30260  
404-381-5181 800-44-3-5645

Certificate of Treatment for WO# 14294

This is to certify that CWM Resource Management, Inc., a Part B permitted RCRA treatment, storage, and disposal facility has processed and/or treated the following waste materials for shipment to its final disposition in accordance with all applicable hazardous and solid waste laws.

Generator Name: U. S. M. C.

Address: Attention: AC/S EMD IRD  
Building 67  
Camp Le Jeune, NC 28540

EPA ID #: NC6170022580

Date of Arrival @ RMI: 1-Mar-95

Mn#	P/L	Cntrl#	RMI Profile	#Containers
I1021	11A	62899	04253-8	1.0
I1021	11A	62900	04253-8	2.0
I1021	11B	62901	04253-2	1.0
I1021	11C	62902	04253-4	1.0
I1021	11C	62903	04253-4	1.0
I1021	11C	62904	04253-4	2.0
I1021	11D	62905	04253-3	1.0
I1021	28A	62906	04253-12	3.0
I1021	28A	62907	04253-12	1.0
I1021	38A	62908	04253-12	5.0
I1021	38A	62909	04253-12	1.0
I1021	38A	62910	04253-12	2.0
I1021	38A	62911	04253-12	7.0
I1021	38A	62912	04253-12	8.0
I1021	38A	62913	04253-12	8.0
I1021	38B	62914	04253-7	2.0
I1021	38B	62915	04253-7	1.0
I1021	38C	62916	04253-5	1.0
I1021	38C	62917	04253-5	1.0
I1021	38D	62918	04253-11	1.0
I1021	48A	62919	04253-1	2.0
I1021	48B	62920	04253-9	1.0
I1021	48C	62921	04253-10	1.0
I1021	48C	62922	04253-10	11.0

4-Sep-96



CWM Resource Management, Inc.

5371 Cook Road  
Morrow, Georgia 30260  
(404) 361-6181 (800) 443-5645

Certificate of Treatment for WO# 14294

This is to certify that CWM Resource Management, Inc., a Part B permitted RCRA treatment, storage, and disposal facility has processed and/or treated the following waste materials for shipment to its final disposition in accordance with all applicable hazardous and solid waste laws.

Generator Name: U. S. M. C.

Address: Attention: AC/S EMD IRD  
Building 67  
Camp Le Jeune, NC 28540

EPA ID #: NC6170022580

Date of Arrival @ RMI: 1-Mar-95

Mn#	P/L	Cntrl#	RMI Profile	#Containers
I1021	48C	62922	04253-10	11.0

If you have any questions, please do not hesitate to call CWM Resource Management, Inc. at (404) 361-6181. We appreciate your business and look forward to offering you service in the future.

Sincerely,

CWM Resource Management, Inc.

*Cardee Ashby*  
Waste Tracking Clerk

**Appendix E**

**Vehicle Decontamination Certificate**



**No Vehicle Decontamination Certificates are required for this Delivery Order since all off-site disposal of hazardous wastes was containerized in drums and/or corrugated boxes.**

**Appendix F**  
**QC Analytical Report**

Laboratory QC analytical data is provided with individual analytical reports chronologically in Appendix I. Confirmation samples were analyzed in accordance with the amended SAP using NEESA Level C protocols. All other samples were analyzed in accordance with NEESA Level E requirements. See Appendix I for specific sampling results and corresponding QC reports.

**Appendix G**  
**Chain-of-Custody**



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

127966

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

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)						REMARKS
								TCLP (SWL)	Ignitability	PH	REACT CN/S	TPH/GC		
1	CLJ-DS-02	2/17	1400	X	X	DRK. BRN. SANDY SOIL: north wall of stockpile #1 (north exc)	1-1Qt	X	X	X	X	X		
2	CLJ-DS-03	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall of stockpile #1 (north exc.)	1-1Qt	X	X	X	X	X		Composite C6528
3	CLJ-DS-04	2/17	1400	X		DRK. BRN. SANDY SOIL: north wall of stockpile #2 (north exc)	1-1Qt	X	X	X	X	X		
4	CLJ-DS-05	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall of stockpile #2 (north exc.)	1-1Qt	X	X	X	X	X		Composite C6529
5	CLJ-DS-06	2/17	1400	X		DRK. BRN. SANDY SOIL: SE corner of stockpile #4 (south exc)	1-1Qt	X	X	X	X	X		
6	CLJ-DS-07	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall/stockpile #3 (north exc)	1-1Qt	X	X	X	X	X		
7	CLJ-DS-07D	2/17	1400	X		DRK. BRN. SANDY SOIL: North <sup>th</sup> south wall/stockpile #3 Dup.	1-1Qt	X	X	X	X	X		
8	CLJ-DS-08	2/17	1400	X		DRK. BRN. SANDY SOIL: North wall/stockpile #3 (north exc.)	1-1Qt	X	X	X	X	X		
9	CLJ-DS-09	2/17	1400	X		DRK. BRN. SANDY SOIL: NW corner/stockpile #4 (south exc)	1-1Qt	X	X	X	X	X		(bubbles in both vials)
10	TRIP BLANK 2/17	-	-	X		TRIP BLANK	2-40ml							HOLD + CONTACT PRIOR TO HOLD TIME EXPIRATION.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-9	<i>M</i> /1289	FED EXP AIRBILL # 7526016761	2/17	1600	① Homogenize sample prior to analysis. ② CREATE COMPOSITE FROM SAMPLES, assign number, <del>AND</del> Analyze for: C6527, VDA (8240), SVD (8270), DST/PCB (8080), TAL METALS, BTU, SPGRV., Cl, SO <sub>4</sub> , NO <sub>3</sub> + PO <sub>4</sub> . Temp 1100/31 700/6001
2	1-10	<i>Fed</i>	<i>[Signature]</i>	2/8/94	1035	
3						
4						

SAMPLER'S SIGNATURE  
*M* /1289



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89  
127966-

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

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS				
								TCLP (Full)	Ignitability	PH	REACT CN/S	TPH/IGC										
1	CLJ-DS-02	2/17	1400	X	X	DRK. BRN. SANDY SOIL: north wall of STOCKPILE #1 (north exc)	1-1Qt	X	X	X	X											
2	CLJ-DS-03	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall of STOCKPILE #1 (north exc)	1-1Qt	X	X	X	X										Composite C6528	
3	CLJ-DS-04	2/17	1400	X		DRK. BRN. SANDY SOIL: north wall of STOCKPILE #2 (north exc)	1-1Qt	X	X	X	X											Composite C6529
4	CLJ-DS-05	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall of STOCKPILE #2 (north exc)	1-1Qt	X	X	X	X											
5	CLJ-DS-06	2/17	1400	X		DRK. BRN. SANDY SOIL: SE CORNER OF STOCKPILE #4 (south exc)	1-1Qt	X	X	X	X											
6	CLJ-DS-07	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall / STOCKPILE #3 (north exc)	1-1Qt	X	X	X	X											
7	CLJ-DS-07D	2/17	1400	X		DRK. BRN. SANDY SOIL: North <del>ed</del> south wall (STOCKPILE #3) Dup.	1-1Qt	X	X	X	X											
8	CLJ-DS-08	2/17	1400	X		DRK. BRN. SANDY SOIL North wall / STOCKPILE #3 (north exc)	1-1Qt	X	X	X	X											
9	CLJ-DS-09	2/17	1400	X		DRK. BRN. SANDY SOIL: NW CORNER / STOCKPILE #4 (south exc)	1-1Qt	X	X	X	X											(bubbles in both vials)
10	TRIP BLANK 2/17	-	-	X		TRIP BLANK	2-40ml															HOLD CONTACT PRIOR TO HOLD TIME EXPIRATION.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-9	<i>[Signature]</i> /1289	FED EXP AIRBILL # 7526016761	2/17	1600	① Homogenize SAMPLE prior to Analysis.
2	1-10	<i>[Signature]</i>	<i>[Signature]</i>	28 94	1025	② CREATE COMPOSITE FROM SAMPLES, assign number, <del>to</del> AND Analyze for: C6527 VBA (8240), SWO (8270), DST/PCB (8080), TAL METALS, BTU, SP.GRAV., Cl, SO <sub>4</sub> , NO <sub>3</sub> + PO <sub>4</sub> . Temp (1000/11) 700/601
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i> /1289



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

127966

D.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3528

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)						REMARKS
								TEMP (F/°C)	PH	RESIST	CHL	TRAC	TRAC	
1	CLJ-DS-02	2/17	1400	X	X	DRK. BRN. SANDY SOIL: north wall of stockpile #1 (north exc.)	1-1QT	X	X	X	X	X		
2	CLJ-DS-03	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall of stockpile #1 (north exc.)	1-1QT	X	X	X	X	X		Composite C6528
3	CLJ-DS-04	2/17	1400	X		DRK. BRN. SANDY SOIL: north wall of stockpile #2 (north exc.)	1-1QT	X	X	X	X	X		Composite C6529
4	CLJ-DS-05	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall of stockpile #2 (north exc.)	1-1QT	X	X	X	X	X		
5	CLJ-DS-06	2/17	1400	X		DRK. BRN. SANDY SOIL: SE CORNER OF STOCKPILE #4 (south exc.)	1-1QT	X	X	X	X	X		
6	CLJ-DS-07	2/17	1400	X		DRK. BRN. SANDY SOIL: south wall stockpile #3 (north exc.)	1-1QT	X	X	X	X	X		
7	CLJ-DS-07D	2/17	1400	X		DRK. BRN. SANDY SOIL: north south wall (stockpile #3) Duff.	1-1QT	X	X	X	X	X		
8	CLJ-DS-08	2/17	1400	X		DRK. BRN. SANDY SOIL: north wall/stockpile #3 (north exc.)	1-1QT	X	X	X	X	X		
9	CLJ-DS-09	2/17	1400	X		DRK. BRN. SANDY SOIL: NW CORNER / STOCKPILE #4 (south exc.)	1-1QT	X	X	X	X	X		(bubbles in both vials)
10	TRIP BLANK	-	-	X		TRIP BLANK	2-40ml							HOLD & CONTACT PRIOR TO HOLD TIME EXPIRATION.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-9	<i>[Signature]</i> /1209	FED EXP AIRBILL #7526016761	2/17	1600	① Homogenize sample prior to analysis. ② CREATE COMPOSITE FROM SAMPLES, assign number, <sup>AND</sup> Analyze for: C6529 Vol (8240), SVO (8210), PST/PUB (8080), TAL METALS, BTU, SP.GRAV., CI, SO <sub>4</sub> , NO <sub>3</sub> + PO <sub>4</sub> . Temp 1000 705684
2	1-10	<i>[Signature]</i>	<i>[Signature]</i>	2/18	1025	
3						
4						

SENT BY: Xerox Telecopier 7021 : 3-7-94 : 5:06PM : 4194244998- 4047293905: # 2



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

## Nº 123167

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <b>15226N</b>	PROJECT CONTACT	PROJECT TELEPHONE NO.			
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	<b>C6527</b>	<b>2/22/94</b>		<b>X</b>		<b>CL-DS-02, CL-DS-03, CL-DS-04, CL-DS-05, CL-DS-06, CL-DS-07, CL-DS-07D, CL-DS-08, CL-DS-09</b>	<b>1X 2 gal</b>
2							
3	<b>C6528</b>	<b>2/22/94</b>		<b>X</b>		<b>CL-DS-02, CL-DS-03</b>	<b>1X 32oz</b>
4	<b>C6529</b>	<b>2/22/94</b>		<b>X</b>		<b>CL-DS-04, CL-DS-05</b>	<b>1X 32oz</b>
5							
6							
7							
8							
9							
10							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<b>1-4</b>	<b>TIMOTHY R NYMER</b>	<b>Wade T. Henry</b>	<b>2-23-94</b>	<b>1135</b>	
2						
3						
4						

*[Signature]*  
SAMPLER'S SIGNATURE

0367





OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

## Nº 123167

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

PROJECT NAME		PROJECT LOCATION				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS				
PROJ. NO	PROJECT CONTACT	PROJECT TELEPHONE NO.																			
15226N							CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR												
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)														
1	C6527	2/22/94		X		CL-DS-02, CL-DS-03, CL-DS-04, CL-DS-05, CL-DS-06, CL-DS-07, CL-DS-07D, CL-DS-08, CL-DS-09					1x2 gal										
2																					
3	C6528	2/22/94		X		CL-DS-02, CL-DS-03					1x32oz										
4	C6529	2/22/94		X		CL-DS-04, CL-DS-05					1x32oz										
5																					
6																					
7																					
8																					
9																					
10																					

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	TIMOTHY R Nymk	Wade T. Long	2-23-94	1135	
2						
3						
4						

*Timothy R Nymk*  
SAMPLER'S SIGNATURE

0367



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

## Nº 123167

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <b>15226N</b>	PROJECT CONTACT	PROJECT TELEPHONE NO.			
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	C6527	2/22/94		X		CLJ DS-02, CLJ DS-03, CLJ DS-04, CLJ DS-05, CLJ DS-06, CLJ DS-07, CLJ DS-07D, CLJ DS-08, CLJ PS-09	1x1 gal
2							
3	C6528	2/22/94		X		CLJ DS-02, CLJ PS-03	1x32 can
4	C6529	2/22/94		X		CLJ DS-04, CLJ PS-05	1x32 can
5							
6							
7							
8							
9							
10							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	TIMOTHY R Nymek	Wade T. Henry	2-23-94	11:55	
2						
3						
4						

*[Signature]*  
SAMPLER'S SIGNATURE

0367



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019  
Field Technical Services  
Rev. 08/89

## 137064

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

PROJECT NAME <b>CAMP LEJEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15206</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)							REMARKS
								TOX (FULL)	ZNE (TOP)	Cd (REACT)	S (REACT)	PH	Ignitability	TPH-GC	
1	CLJ-CSS-023	2/23	1:35	X	X	West TRENCH - BATTERY AREA:	1-64oz	X	X	X	X	X	X	COMPOSITE FOR SVI/Met/I <sub>2</sub> /CN/S	
						North wall	1-8oz	X	X	X	X	X	X		VOA SAMPLE
2	CLJ-CSS-024	2/23	1:35	X	X	EAST WALL - FLAG #1.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
3	CLJ-CSS-025	2/23	1:35	X	X	FLOOR - FLAG #1.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
4	CLJ-CSS-026	2/23	1:40	X	X	WEST WALL - FLAG #1.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
5	CLJ-CSS-027	2/23	1:45	X	X	EAST WALL - FLAG #2.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
6	CLJ-CSS-028	2/23	1:50	X	X	FLOOR - FLAG #2.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
7	CLJ-CSS-029	2/23	1:55	X	X	WEST WALL - FLAG #2.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
8	CLJ-CSS-030	2/23	2:05	X	X	EAST WALL - FLAG #3.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
9	CLJ-CSS-031	2/23	2:15	X	X	FLOOR - FLAG #3.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	
10	CLJ-CSS-032	2/23	2:15	X	X	WEST WALL - FLAG #3.	1-64oz	X	X	X	X	X	X	"	
						" " " "	1-8oz	X	X	X	X	X	X	"	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i>	FED. EXP AIRMAIL 752408772	2/23		LEVEL IV PACKAGE
2						
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]* 7/89



OHM Corporation

COC NO.



W0 #99

W 146

# CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019  
Field Technical Services  
Rev. 08/89

137067

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

PROJECT NAME <b>CAMP LEJEUNE</b>				PROJECT LOCATION <b>JACKSONVILLE, NC</b>				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)  <del>           TOLP (TOL) X            PHE (TOL) X            PH (TOL) X            TPH (Limit) X            TEL (CLP) X            TAL (CLP) X            CNES (React) X            GC X            CLP X         </del>					REMARKS  <b>Rec'd @ 11°C BPB 2/24/94</b>				
PROJ. NO. <b>15226</b>		PROJECT CONTACT <b>W. Perry</b>		PROJECT TELEPHONE NO. <b>910</b>														
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>				PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>														
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)												
1	CLJ-CSS-02Bd	2/23	1350	X	X	West TRENCH - BATTERY AREA: FLOOR-FLAG #2 (Duplicate)	1-64oz	X	X	X	X	X	COMPOSITE FOR EXT/DIG. VOA SAMPLE					
2	TRIP BLK-7/23	-	-		X	TRIP BLANK	1-8oz 1-40ml VOA	X	X	X			HOLD - CONTACT PRIOR TO HOLD TIME EXPIRES.					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*WP*

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-2	<i>[Signature]</i>	FED. Exp. AIRBILL # 7526016783	2/23		LEVEL III PACKAGE (NEESA) + CLP PACKAGE.
2			<i>Bryan Blomquist</i>	2/24	8:50	
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

1289



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019  
Field Technical Services  
Rev. 08/89

## 137065

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

PROJECT NAME <b>CAMP LETENNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)  <div style="display: flex; justify-content: space-around; font-size: small;"> <span>TCUP (FIELD)</span> <span>ZHE (TCUP)</span> <span>CN (REACT)</span> <span>S (REACT)</span> <span>PH</span> <span>19ml</span> <span>TPH-66</span> </div>									
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>		PROJECT TELEPHONE NO. <b>910</b>											
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>												
ITEM NO.	SAMPLE NUMBER	DATE	TIME								COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	CLJ-CSS-033	2/23	2:00	X	X	West TRENCH - BATTERY AREA: South wall	1-64oz	X	X	X	X	X	X	Composite for SW/mst VIA SAMPLE
2	TRIP BLANK 2/23	-	-		X	TRIP BLANK	1-8oz 1-40ml WA	X						Hold - CALL PRIOR TO HOLD TIME ELAPSING.
3														
4														
5														
6														
7														
8														
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-2		FED EXPRESS AIRBILL # 7526016772	2/23		LEVEL III PACKAGE
2						
3						
4						
						SAMPLER'S SIGNATURE 



# CHAIN-OF-CUSTODY RECORD

137075

OHM Corporation

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

PROJECT NAME <b>CAMP LEJEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE NC.</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. PERRY</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

*COMPATIBILITY TEST*

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
<del>1</del>	<del>CLJ-DWS-001</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum # 001</del>	<del>1x 802</del>	<del>X</del>	
<del>2</del>	<del>CLJ-DWS-002</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum # 002</del>	<del>1x 802</del>	<del>X</del>	
<del>3</del>	<del>CLJ-DWS #003</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum # 003</del>	<del>1x 802</del>	<del>X</del>	
<del>4</del>	<del>CLJ-DWS #004</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum # 004</del>	<del>1x 802</del>	<del>X</del>	
<del>5</del>	<del>CLJ-DWS #005</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum # 005</del>	<del>1x 802</del>	<del>X</del>	
<del>6</del>	<del>CLJ-DWS #005 D</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum #005 DUPLICATE</del>	<del>1x 802</del>	<del>X</del>	<i>No DRUM LOG, pg</i>
<del>7</del>	<del>CLJ-DWS #006</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum #006</del>	<del>1x 802</del>	<del>X</del>	
<del>8</del>	<del>CLJ-DWS #007</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum #007</del>	<del>1x 802</del>	<del>X</del>	
<del>9</del>	<del>CLJ-DWS #008</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum #008</del>	<del>1x 802</del>	<del>X</del>	
<del>10</del>	<del>CLJ-DWS #009</del>	<del>2/24</del>	<del>0800</del>	<del>✓</del>		<del>Drum #009</del>	<del>1x 802</del>	<del>X</del>	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10 <sup>th</sup> 9	<i>[Signature]</i>	FED EXP. 5927355626	2/24	1700	Drum samples are composites of all drums found within overpack.
2	1-10	622-0660-915 FED EX 5927355626	<i>[Signature]</i>	2-25 94	1027	SEE ATTACHED DRUM LOGS FOR GREATER DETAIL (9 pages).
3						
4						

SAMPLER'S SIGNATURE *[Signature]*



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Form 0019  
Field Technical Services  
Rev. 08/89

137075

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

PROJECT NAME <b>CAMP LEJEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC.</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. PERRY</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

COMPATABILITY TEST

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	COMPATABILITY TEST	REMARKS
	CLJ-DWS.									
	<del>CLJ-DWS</del> 001	2/24	0800	✓		Drum # 001	1x 802	X		
	CLJ-DWS 002	2/24	0800	✓		Drum # 002	1x 802	X		
	CLJ-DWS # 003	2/24	0800	✓		Drum # 003	1x 802	X		
	CLJ-DWS #004	2/24	0800	✓		Drum # 004	1x 802	X		
	CLJ-DWS #005	2/24	0800	✓		Drum # 005	1x 802	X		
	CLJ-DWS #005 D	2/24	0800	✓		Drum #005 DUPLICATE	1x 802	X		No DRUM LOG, pg
	CLJ-DWS #006	2/24	0800	✓		Drum #006	1x 802	X		
	CLJ-DWS #007	2/24	0800	✓		Drum #007	1x 802	X		
	CLJ-DWS #008	2/24	0800	✓		Drum # 008	1x 802	X		
	CLJ-DWS #009	2/24	0800	✓		Drum # 009	1x 802	X		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-18 <sup>th</sup> 9	<i>[Signature]</i>	FED EXP. 5927355626	2/24	1700	Drum samples are composites of all drums found within overpack.
2	1-10	622-0600-915 FED EX 5927355626	<i>[Signature]</i>	2-25 94	1027	SEE ATTACHED DRUM LOGS FOR GREATER DETAIL (9 pages).
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i>



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PROJECT NAME <b>CAMP Lejeune</b>		PROJECT LOCATION <b>Jacksonville, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*Compatibility Test*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
<del>1</del>	<del>CLT-DWS-010</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 10</del>	<del>1x 8oz</del>	<del>X</del>	
<del>2</del>	<del>CLT-DWS-011</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 11</del>	<del>1x 8oz</del>	<del>X</del>	
<del>3</del>	<del>CLT-DWS-012</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 12</del>	<del>1x 8oz</del>	<del>X</del>	
<del>4</del>	<del>CLT-DWS-013</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 13</del>	<del>1x 8oz</del>	<del>X</del>	
<del>5</del>	<del>CLT-DWS-014</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 14</del>	<del>1x 8oz</del>	<del>X</del>	
<del>6</del>	<del>CLT-DWS-015</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 15</del>	<del>1x 8oz</del>	<del>X</del>	
<del>7</del>	<del>CLT-DWS-017</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 17</del>	<del>1x 8oz</del>	<del>X</del>	<i>Contains some solid. org</i>
<del>8</del>	<del>CLT-DWS-018</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 18</del>	<del>1x 8oz</del>	<del>X</del>	
<del>9</del>	<del>CLT-DWS-019</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 19</del>	<del>1x 8oz</del>	<del>X</del>	
<del>10</del>	<del>CLT-DWS-020</del>	<del>2/24</del>	<del>0800</del>	<del>X</del>		<del>Drum # 20</del>	<del>1x 8oz</del>	<del>X</del>	<i>Limited sample to full. org</i>

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i>	FED Exp. 5927355626	2/24	1700	Drums samples are composites of all <del>the</del> drums found within overpack. See attached Drum Logs for greater detail. (10 pgs).
2	1-10	627-0600-915 FED EX 5927355626	<i>[Signature]</i>	2-25	94 1030	
3						
4						

SAMPLER'S SIGNATURE

*[Signature]*





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

PROJECT NAME <b>CAMP LaSalle</b>		PROJECT LOCATION <b>Jacksonville, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*Comminability Test*  
*VOR*  
*PST/PCB*  
*SVO*  
*Formaldehyde*  
*BTX*  
*Spec. Grav.*  
*Acid Immo (Cl, S<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>)*

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
* 1	CLT-DWS-072	2/24	0800	X		Drum # 72	1x8oz	X	Appears white/tan og
* 2	CLT-DWS-072d	2/24	0800	X		Drum # 72 (Duplicate)	1x8oz	X	NO DRUM LOG. og
* 3	CLT-DWS-074	2/24	0800	X		Drum # 74	1x8oz	X	
* 4	CLT-DWS-076	2/24	0800	X		Drum # 76	1x8oz	X	appears white/tan og
* 5	CLT-DWS-077	2/24	0800	X		Drum # 77	1x8oz	X	
* 6	CLT-DWS-078	2/24	0800	X		Drum # 78	1x8oz	X	appears tan/orange og
* 7	CLT-DWS-079	2/24	0800	X		Drum # 79	1x8oz	X	limited sample og 1/4 full
* 8	CLT-DWS-080	2/24	0800	X		Drum # 80	1x8oz	X	
* 9	CLT-DWS-099	2/24	0800	X		Drum # 99	1x8oz	X	limited sample 1/4 full og
* 10	CLT-DG-01	2/24	0800	X		Composite of grease waste stream.	1x64oz	XXXXXXX	1-32oz jar og

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i>	FED Exp. 5927355626	2/24	1700	Drum SAMPLES ARE COMPOSITES of all Drums found within overpack.  See attached Drum Logs for greater detail (8 pages)
2	1-10	622 0600915 FED EX 5927355626	<i>Ronita Jensen</i>	2-25 99	1040	
3						
4						

SAMPLER'S SIGNATURE

*[Signature]* 1/289





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

PROJECT NAME <b>CAMP LaSalle</b>		PROJECT LOCATION <b>Jacksonville, NC</b>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>Comminutability Test</i> <i>VOA</i> <i>PST/PCB</i> <i>SVO</i> <i>BTM</i> <i>Spec. Grav.</i> <i>Acid Iron (Cl, Fe, Ni, Pb)</i>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>				
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>				
ITEM NO.	SAMPLE NUMBER	DATE	TIME			COMP

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
* 1	CLT-DWS-072	2/24	0800	X		DRUM # 72	1x8oz	X	Appears white/tan og
* 2	CLT-DWS-072d	2/24	0800	X		DRUM # 72 (Duplicate)	1x8oz	X	NO DRUM LOG. og
* 3	CLT-DWS-074	2/24	0800	X		DRUM # 74	1x8oz	X	
* 4	CLT-DWS-076	2/24	0800	X		DRUM # 76	1x8oz	X	Appears white/tan og
* 5	CLT-DWS-077	2/24	0800	X		DRUM # 77	1x8oz	X	
* 6	CLT-DWS-078	2/24	0800	X		DRUM # 78	1x8oz	X	Appears tan/orange og
* 7	CLT-DWS-079	2/24	0800	X		DRUM # 79	1x8oz	X	limited sample og 1/4 full
* 8	CLT-DWS-080	2/24	0800	X		DRUM # 80	1x8oz	X	
* 9	CLT-DWS-099	2/24	0800	X		DRUM # 99	1x8oz	X	limited sample 1/4 full og
* 10	CLT-DG-01	2/24	0800	X		Composite of grease waste-stream.	1x6oz	XXXXXXX	1-32oz jar og

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i>	FED Exp. 5927355626	2/24	1700	Drum SAMPLES ARE COMPOSITES of all Drums found within overpack.  See attached Drum Logs for greater detail (8 pages)
2	1-10	622 0600915 FED EX 5927355626	Ronita Jensen	2-25 94	1040	
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]* 1289



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

PROJECT NAME					PROJECT LOCATION						NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS	
CAMP LEIGUNE					JACKSONVILLE, NC.							COMPATIBILITY TEST											
PROJ. NO. 15226		PROJECT CONTACT J Cotton <sup>SM</sup> W. PERRY			PROJECT TELEPHONE NO. 910-451-1809																		
CLIENT'S REPRESENTATIVE J. COTTON					PROJECT MANAGER/SUPERVISOR J. SHEPARD																		
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)																	
<del>A-10</del>	CLJ-DWS- #021	2/24	0800	✓		Drum # 021						802	✓										
<del>A-10</del>	CLJ-DWS- 022	2/24	0800	✓		DRUM # 022						802	✓										
<del>A-10</del>	CLJ-DWS 023	2/24	0800	✓		DRUM # 23						802	✓	Brown legs with white solid. pg									
<del>A-10</del>	CLJ-DWS 024	2/24	0800	✓		DRUM # 24						802	✓										
<del>A-10</del>	CLJ-DWS 025	2/24	0800	✓		DRUM # 25						802	✓										
<del>A-10</del>	CLJ-DWS 026	2/24	0800	✓		DRUM # 26						802	✓										
<del>A-10</del>	CLJ-DWS 032	2/24	0800	✓		DRUM # 32						802	✓										
<del>A-10</del>	CLJ-DWS 043	2/24	0800	✓		DRUM # 043						802	✓										
<del>A-10</del>	CLJ-DWS 043 D	2/24	0800	✓		DRUM # 043 DUPLICATE						802	✓	NO DRUM LOG pg									
<del>A-10</del>	CLJ-DWS 063	2/24	0800	✓		DRUM # 063						802	✓	Appears white/Tan pg									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	<sup>SM</sup> 21-1-9	<i>[Signature]</i> 1084		Fed Exp. 5927355626		2/24	1700	DRUM SAMPLES ARE COMPOSITES OF ALL DRUMS FOUND WITHIN OVERPACK.
2	1-10	622 0600 915 FED EX 5927355626		Donita Jensen		2-25	1050	SEE ATTACHED DRUM LOGS FOR GREATER DETAIL
3							1050	
4								SAMPLER'S SIGNATURE



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PROJECT NAME				PROJECT LOCATION					
CAMP LEVINE				JACKSONVILLE, NC.					
PROJ. NO.		PROJECT CONTACT		PROJECT TELEPHONE NO.					
15226		J. Cotton <sup>sm</sup> W. PERRY		910-451-1809					
CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR					
J. Cotton				J. SHEPHARD					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
<del>10</del>	CLJ-DWS- #021	2/24	0800	✓		Drum # 021	802	✓	
<del>8</del>	CLJ-DWS- 022	2/24	0800	✓		Drum # 022	802	✓	
<del>10</del>	CLJ-DWS 023	2/24	0800	✓		Drum # 23	802	✓	Brown log with white solid log
<del>10</del>	CLJ-DWS 024	2/24	0800	✓		Drum # 24	802	✓	
<del>10</del>	CLJ-DWS 025	2/24	0800	✓		Drum # 25	802	✓	
<del>10</del>	CLJ-DWS 026	2/24	0800	✓		Drum # 26	802	✓	
<del>10</del>	CLJ-DWS 032	2/24	0800	✓		Drum # 32	802	✓	
<del>10</del>	CLJ-DWS 043	2/24	0800	✓		Drum # 043	802	✓	
<del>10</del>	CLJ-DWS 043 D	2/24	0800	✓		Drum # 043 DUPLICATE	802	✓	No drum log log
<del>10</del>	CLJ-DWS 063	2/24	0800	✓		Drum # 063	802	✓	appears white/tan log
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	21 <sup>sm</sup> 1-9	1289		Fed Exp. 5927355626		2/24	1700	Drum Samples are composites of all drums found within overpack.	
2	1-10	622 0600 915 Fed EX 5927355626		Donita Jensen		2-25 94	1050	SEE ATTACHED DRUM LOGS FOR GREATER DETAIL	
3							1050		
4								SAMPLER'S SIGNATURE 1289	



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

PROJECT NAME <b>CAMP LEJEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE NC.</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. PERRY</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Sheppard</b>	

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

COMPATABILITY TEST

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
X	CLJ-DWS-001	2/24	0800	✓		Drum # 001	1x 802	X
X	CLJ-DWS-002	2/24	0800	✓		Drum # 002	1x 802	X
X	CLJ-DWS # 003	2/24	0800	✓		Drum # 003	1x 802	X
X	CLJ-DWS #004	2/24	0800	✓		Drum # 004	1x 802	X
X	CLJ-DWS #005	2/24	0800	✓		Drum # 005	1x 802	X
X	CLJ-DWS #005 D	2/24	0800	✓		Drum #005 DUPLICATE	1x 802	X
X	CLJ-DWS #006	2/24	0800	✓		Drum #006	1x 802	X
X	CLJ-DWS #007	2/24	0800	✓		Drum #007	1x 802	X
X	CLJ-DWS #008	2/24	0800	✓		Drum #008	1x 802	X
X	CJS-DWS #009	2/24	0800	✓		Drum # 009	1x 802	X

No DRUM LOG. pg

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-18 <sup>sm</sup> 9	<i>[Signature]</i>	FED EXP. 5927355626	2/24	1700	Drum samples are composites of all drums found within overpack.
2	1-10	622-0600-915 FED EX 5927355626	<i>[Signature]</i>	2-25 94	1027	SEE ATTACHED DRUM LOGS FOR GREATER DETAIL (9 pages).
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

0524



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PROJECT NAME <b>Camp Lejeune</b>		PROJECT LOCATION <b>Jacksonville, NC</b>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>			
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
X	CLJ-DWS-010	2/24	0800	X		Drum # 10	1 x 8oz	
X	CLJ-DWS-011	2/24	0800	X		Drum # 11	1 x 8oz	
X	CLJ-DWS-012	2/24	0800	X		Drum # 12	1 x 8oz	
X	CLJ-DWS-013	2/24	0800	X		Drum # 13	1 x 8oz	
X	CLJ-DWS-014	2/24	0800	X		Drum # 14	1 x 8oz	
X	CLJ-DWS-015	2/24	0800	X		Drum # 15	1 x 8oz	
X	CLJ-DWS-017	2/24	0800	X		Drum # 17	1 x 8oz	Contains some solid. eq
X	CLJ-DWS-018	2/24	0800	X		Drum # 18	1 x 8oz	
X	CLJ-DWS-019	2/24	0800	X		Drum # 19	1 x 8oz	
X	CLJ-DWS-020	2/24	0800	X		Drum # 20	1 x 8oz	Limited sample to fuel. eq

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i> 1289	FED Exp. 5927355626	2/24	1700	Drums samples are composites of all drums found within overpack. See attached Drum Log for greater detail. (10 pgs).
2	1-10	627-0600-915 FED EX 5927355626	<i>[Signature]</i>	2-25	94 1030	
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]* 1289

0525



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Field Technical Services  
Rev. 08/89

137077

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

PROJECT NAME <b>CAMP LaSalle</b>		PROJECT LOCATION <b>Jacksonville, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
								Comatability Test	VDA	PST/PCB	SVD	BTX	Spec. Grav.	Acid Ions (Cl, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> )				
X	CLT-DWS-072	2/24	0800	X		DRUM # 72	1x8oz	X										Appears white/tan og
X	CLT-DWS-072d	2/24	0800	X		DRUM # 72 (Duplicate)	1x8oz	X										NO DRUM LOG. og
X	CLT-DWS-074	2/24	0800	X		DRUM # 74	1x8oz	X										
X	CLT-DWS-076	2/24	0800	X		DRUM # 76	1x8oz	X										appears white/tan og
X	CLT-DWS-077	2/24	0800	X		DRUM # 77	1x8oz	X										
X	CLT-DWS-078	2/24	0800	X		DRUM # 78	1x8oz	X										Appears tan/orange og
X	CLT-DWS-079	2/24	0800	X		DRUM # 79	1x8oz	X										limited sample og 1/4 full.
X	CLT-DWS-080	2/24	0800	X		DRUM # 80	1x8oz	X										
X	CLT-DWS-099	2/24	0200	X		DRUM # 99	1x8oz	X										limited sample 1/4 full og
10	CLT-DG-01	2/24	0800	X		Composite of grease waste-stream.	1x64oz		X	X	X	X	X	X	X	X		1-32oz jar og

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10		FED Exp. 5927355626	2/24	1700	DRUM SAMPLES ARE COMPOSITES of all Drums found within overpack.  See attached Drum Logs for greater detail (8 pages)
2	1-10	622 0600915 FED EX 5927355626	Donita Jensen	2-25-94	1040	
3						
4						

0526

SAMPLER'S SIGNATURE





OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 1

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Rev. 08/89

## 137081

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

PROJECT NAME <i>WATER TREATMENT SITE #6</i>		PROJECT LOCATION <i>Jacksonville NC</i>	
PROJ. NO. <i>15226</i>	PROJECT CONTACT <i>John Cotton</i>	PROJECT TELEPHONE NO. <i>910-451-1809</i>	
CLIENT'S REPRESENTATIVE <i>John Cotton</i>		PROJECT MANAGER/SUPERVISOR <i>Tom S. ...</i>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*FULL TOCP*  
*TOCP ONLY*  
*PH*  
*ARSENIC*  
*AMMONIUM NIT*  
*AMMONIUM*  
*TPH*  
*TPH ONLY*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
✓ 1	CLT-CSS-01	2-14-94	1830		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 2	CLT-CSS-02	2-14-94	1830		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 3	CLT-CSS-03	2-14-94	1830		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 4	CLT-CSS-04	2-14-94	0840		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 5	CLT-CSS-05	2-14-94	0840		Y	<i>SHADY SOIL EAST WALL</i>	1x 500		
✓ 6	CLT-CSS-06	2-14-94	0840		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 7	CLT-CSS-07	2-14-94	0840		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 8	CLT-CSS-08	2-14-94	0840		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 9	CLT-CSS-09	2-14-94	0840		Y	<i>1.0m soil EAST WALL</i>	1x 500		
✓ 10	CLT-CSS-10	2-14-94	0830		Y	<i>1.0m soil EAST WALL</i>	1x 500		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Michael Wells</i>	<i>Tom S. ...</i>	2-14-94	1200	<i>ASC</i>
2						
3						
4						<i>Michael Wells</i> SAMPLER'S SIGNATURE





OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 1

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Rev. 08/89

## 137079

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

PROJECT NAME <i>CAMP RETURN SITE #6</i>		PROJECT LOCATION <i>near south NC</i>	
PROJ. NO. <i>13226</i>	PROJECT CONTACT <i>William Perry</i>	PROJECT TELEPHONE NO. <i>419-451-1809</i>	
CLIENT'S REPRESENTATIVE <i>[Blank]</i>		PROJECT MANAGER/SUPERVISOR <i>[Blank]</i>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*FULL TOLP*  
*IGNITIBILITY*  
*DH*  
*FRACIONS (V)*  
*TRACERS (V)*  
*T-100 LAB*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	<i>123-01</i>	<i>2-4-90</i>	<i>0900</i>		<i>1</i>	<i>...</i>	<i>1</i>	<i>Y Y Y Y Y</i>	
2	<i>123-02</i>	<i>2-4-90</i>	<i>1100</i>		<i>Y</i>	<i>...</i>	<i>1</i>	<i>Y Y Y Y Y</i>	
3	<i>123-03</i>	<i>2-4-90</i>	<i>1300</i>		<i>X</i>	<i>...</i>	<i>1</i>	<i>Y Y Y Y Y</i>	
4	<i>123-04</i>	<i>2-4</i>	<i>1500</i>		<i>X</i>	<i>Sandy brown soil - disposal pile/soil pipe</i>	<i>3</i>	<i>X X X X X X X</i>	<i>DS-01</i> <i>DS-01a</i> <i>DS-01b</i>
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<i>1-4</i>	<i>MICHAEL WELLS</i>	<i>TED ... BILL # 754011750</i>	<i>2-19-90</i>	<i>1500</i>	<i>ASC</i>
2						
3						<i>Michael Wells</i>
4						SAMPLER'S SIGNATURE



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 2

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Rev. 08/89

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

PROJECT NAME <i>CAMP LATUNE</i>		PROJECT LOCATION <i>JACKSONVILLE, NC</i>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)		
PROJ. NO. <i>15226</i>	PROJECT CONTACT <i>W. Perry</i>	PROJECT TELEPHONE NO. <i>910-458-1809</i>					
CLIENT'S REPRESENTATIVE <i>J. Cotton</i>		PROJECT MANAGER/SUPERVISOR <i>J. Shepard</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME			COMP	GRAB
<i>1</i>	<i>CLJ-DW01</i>	<i>2/24</i>	<i>1400</i>		<i>X</i>	<i>12K Pool - water sample</i>	<i>(VAR)</i>
<i>2</i>							
<i>3</i>							
<i>4</i>							
<i>5</i>							
<i>6</i>							
<i>7</i>							
<i>8</i>							
<i>9</i>							
<i>10</i>							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1</i>	<i>[Signature] / 1289</i>	<i>FED EXP 5927355626</i>	<i>2/24</i>	<i>1700</i>	<i>RUSH = 24 - 48 hr TAT</i>
<i>2</i>						<i>Analysis per client request -</i>
<i>3</i>						<i>Will call by 2/25/94 @ 1100hrs.</i>
<i>4</i>						<i>clock will start then</i>
						SAMPLER'S SIGNATURE <i>[Signature] / 1289</i>



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PROJECT NAME <b>CAMP Latene</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-458-1809</b>			
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	<del>CL5-DW</del> 01	2/24	1400		X	12K Pool - water sample	*****	4-IL., 2-500ml Plastic, 2-VGA, 1-T. BLK VOA w/ bubble (2-IL Pres. w/ H2SO4) (1-500ml Pres w/ HNO3)
2								
3								
4								
5								
6								
7								
8								
9								
10								

WSP

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1		FED EXP 5927355626	2/24	1700	<u>RUSH = 24 - 48 hr TAT</u>  Analysis per client request - will call by 2/25/94 @ 1100hrs. clock will start then Temp 300
2	1	Fedx		2-25 94	1004	
3						
4						

SAMPLER'S SIGNATURE



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O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Coal In situ</i>				PROJECT LOCATION <i>Jacksonville, NC</i>					
PROJ. NO. <i>15276</i>		PROJECT CONTACT <i>W. Lerry</i>		PROJECT TELEPHONE NO. <i>910-451-1869</i>					
CLIENT'S REPRESENTATIVE <i>D. J. Lottan</i>				PROJECT MANAGER/SUPERVISOR <i>J. Shepard</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	<i>LS-TWS-072</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 72</i>	<i>1x 8oz</i>	<i>X</i>	
2	<i>LS-TWS-072d</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 72 (Duplicate)</i>	<i>1x 8oz</i>	<i>X</i>	
3	<i>LS-TWS-074</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 74</i>	<i>1x 8oz</i>	<i>X</i>	
4	<i>LS-TWS-076</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 76</i>	<i>1x 8oz</i>	<i>X</i>	
5	<i>LS-TWS-077</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 77</i>	<i>1x 8oz</i>	<i>X</i>	
6	<i>LS-TWS-078</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 78</i>	<i>1x 8oz</i>	<i>X</i>	
7	<i>LS-TWS-079</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 79</i>	<i>1x 8oz</i>	<i>X</i>	
8	<i>LS-TWS-080</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 80</i>	<i>1x 8oz</i>	<i>X</i>	
9	<i>LS-TWS-099</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>DRUM # 99</i>	<i>1x 8oz</i>	<i>X</i>	
10	<i>LS-TWS-01</i>	<i>2/24</i>	<i>0800</i>	<i>X</i>		<i>Composite of grease waste-stream</i>	<i>1x 6oz</i>	<i>X X X X X X X</i>	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	<i>1-10</i>	<i>[Signature]</i>		<i>red exp. 5/12/88 SLS</i>		<i>2/24</i>	<i>1700</i>	<i>DRUM - SAMPLES ARE COMPOSITE of all drums and within sequence.</i>	
2								<i>See attached Drum logs for further detail (8 pages)</i>	
3									
4								SAMPLER'S SIGNATURE <i>[Signature]</i>	

*1/6/89 Lab. Test*  
*VOC*  
*1ST/ICE*  
*SUD*  
*ESTH*  
*Spec. Grav.*  
*Dist. Invol. (10, 100, 1000)*

# CHAIN-OF-CUSTODY RECORD

137077

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

NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS		
PROJECT CONTACT		PROJECT TELEPHONE NO.			<i>Comminability Test</i> <i>VDA</i> <i>PST/PCB</i> <i>SVD</i> <del><i>Formaldehyde</i></del> <i>BTX</i> <i>Spec. Grav.</i> <i>Ash Tano (Cl, S, N, P, O<sub>2</sub>)</i>												
PRESENTATIVE		PROJECT MANAGER/SUPERVISOR															
DATE	TIME	COMP	GRAB													SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	
LA Saine		Jacksonville, NC															
W. Perry		910-451-1809															
J. Cotton		J. Shepard															
DWS-72	2/24	0800	X		Drum # 72	1x8oz	X										Appears white/tan og
-DWS-72d	2/24	0800	X		Drum # 72 (Duplicate)	1x8oz	X										No drum log. og
-DWS-74	2/24	0800	X		Drum # 74	1x8oz	X										
-DWS-76	2/24	0800	X		Drum # 76	1x8oz	X										Appears white/tan og
-DWS-77	2/24	0800	X		Drum # 77	1x8oz	X										
-DWS-78	2/24	0800	X		Drum # 78	1x8oz	X										Appears tan/orange og
-DWS-79	2/24	0800	X		Drum # 79	1x8oz	X										Limited sample 1/4 full og
-DWS-80	2/24	0800	X		Drum # 80	1x8oz	X										
-DWS-99	2/24	0800	X		Drum # 99	1x8oz	X										Limited sample 1/4 full og
-DG-01	2/24	0800	X		Composite of grease waste-stream.	1x6oz		X	X	X	X	X	X	X	X	X	1-3oz jar og

ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1-10	<i>[Signature]</i> 1289	FED Exp. 5927355626	2/21	1700	Drum samples are composites of all drums found within overpack.  See attached Drum logs for greater detail (8 pages)
1-10	FED Ex 622 0600915 5927355626	<i>[Signature]</i>	2-25-94	1040	
					SAMPLER'S SIGNATURE <i>[Signature]</i> 1289



# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89  
127968

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)					REMARKS	
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.			TCUP (GULP)	Ignitability	PH	UN/S Lead	TPH-GC		
15226	910-450-1809	W. Perry									
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR									
J. Cotton		J. Shepard									
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				REMARKS	
1	CLJ-DB-01	2/25	1300	X		Battery Pile Disposal Composite					2x12
2	CLJ-DP-01	2/25	1330	X		PPE Disposal composite #1					1x6oz
3	CLJ-DP-02	2/25	1330	X		PPE Disposal composite #2					1x12
4											
5											
6											
7											
8											
9											
10											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-3	1289	FE Airbill 7526016794	2/25	1530	Use CLJ-DP-01 up before going to CLJ-DP-02.
2	1-3	Feds		2-28-94	1017	
3						SAMPLER'S SIGNATURE 1289
4						

0127





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# CHAIN-OF-CUSTODY RECORD

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127973

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

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, Nc</b>	
PROJ NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*Metals (PAA) 1-500ml*  
*8240*  
*D+G*  
*PH*  
*CN*  
*IDS 1-250ml*  
*8290*  
*ISS 1-250ml*  
*8080*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	CLT-DUW-02	3/1	1524		X	15K POOL SAMPLE # 2	6x1.2 2x250ml 1x500ml 1x40ml	X X X X X X X	* 1-500ml only bottle pre
2	<del>WV</del>	<del>WV</del>	<del>WV</del>	<del>WV</del>	<del>WV</del>	<del>WV</del>	<del>WV</del>	<del>WV</del>	<del>WV</del>
3	TRIP BLK 3/1	3/1	-		X	TRIP BLANK	1x40ml		Label pending direction from project contact
4									* TRP BLK - has bubble
5									
6									
7									
8									
9									
10									

*WP*

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	143	<i>[Signature]</i>	FE # 752606864	3/1	1700	Level IV
2	143	<i>[Signature]</i>	<i>[Signature]</i>	3-1	1023	
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

Temp 4°C



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PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.			<i>Metals (RCRA) 1-500ml</i> <i>3240</i> <i>D+G</i> <i>PH</i> <i>CN</i> <i>IDS/ISS 1-250ml</i> <i>8290</i> <i>8080</i>										
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR													
ITEM NO.	SAMPLE NUMBER	DATE	TIME												
1	CLT-DW-02	3/1	1524		X	15K POOL SAMPLE # 2	X	X	X	X	X	X	X	X	* 1-500ml only bottle present
2															
3	TRIP BLK 3/1	3/1	-		X	TRIP BLANK									Hold pending direction from project contact
4															* TRP BLK - has bubble
5															
6															
7															
8															
9															
10															

*WP*

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	143	<i>[Signature]</i>	FE # 7526016864	3/1	1700	Level IV
2	143	<i>Relx</i>	<i>[Signature]</i>	3-2	1023	
3						
4						

*Temp 4°C*

SAMPLER'S SIGNATURE *[Signature]*



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Field Technical Services  
Rev. 08/89

127973

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

PROJECT NAME <b>CAMP LEJWENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*Metals (PCA) 1-500ml*  
*8240*  
*D+G 1-40ml*  
*PH 1-P \**  
*CN*  
*IDS 1-250ml*  
*8290*  
*8080*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS	REMARKS
1	CLT-DW-02	3/1	1524		X	15K POOL SAMPLE # 2	X X X X X X X X	* 1-500ml (only bottle present)
2								
3	TRIP BLK 3/1	3/1	-		X	TRIP BLANK		Hold pending direction from project contact
4								X TRP BLK - has bubble
5								
6								
7								
8								
9								
10								

*WP*

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	143	<i>[Signature]</i>	FE # 752601684	3/1	1700	Level IV
2	143	<i>[Signature]</i>	<i>[Signature]</i>	3-2 94	1023	
3						Temp 4°C
4						

SAMPLER'S SIGNATURE

*[Signature]*



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

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

PROJECT NAME <b>CAMP LEJUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS				
								TCU - Metals	PH	TCU - Fuel	IGNITABILITY	CNT/S	TPH - GE	COMPACTILITY	LAB 1 (COLL)	LAB 2 (COLL)	LAB 3 (COLL)		LAB 4 (COLL)			
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X													
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X													
3	CLJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X													
4	CLJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X													
5	CLJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 1	1-32oz		X	X	X	X	X									
6	CLJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2	1-32oz		X	X	X	X	X									
7	CLJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2 (DUPLICATE)	1-32oz		X	X	X	X	X									QA Duplicate } one sample jar
8	TRIP BLANK																					
9	CLJ-DFG-01	3/3	1600		X	SAMPLE OF FIRE EXTINGUISHER Drum # 148 (55H)	1-32oz															XX Use waste dilution
10	CLJ-DS-148.01	3/3	1600		X	Drum sample # 143 .01	1x8oz															X see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7, 9-10	<i>[Signature]</i>	FE 7526016816	3/3	1800	ASC Split CLJ-DS-11 to make CLJ-DS-11d
2	1-7, 9, 10	FedEx 7526016816	Donita Jensen	3-6-99	1427	
3						
4						

NOTE: ITEM #9 possibly very hot w/CO2

SAMPLER'S SIGNATURE *[Signature]*



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# CHAIN-OF-CUSTODY RECORD

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Field Technical Services  
Rev. 08/89

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

PROJECT NAME <b>CAMP LEJUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS		
								TCUP - Metals	PH	TCUP - Fuels	IGNITABILITY	CN/S (React.)	TPH - GC	Compatibility	leach (TCUP)					
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X											
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X											
2	ELJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X											
4	CLJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X											
5	CLJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #1	1-32oz		X	X	X	X	X							
8	CLJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #2	1-32oz		X	X	X	X	X							
7	CLJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #2 (duplicate)	1-32oz		X	X	X	X	X					QA Duplicate	one sample jar	
8	TRIP BLANK																			
9	CLJ-DFE-01	3/3	1600	X		SAMPLE OF FIRE EXTINGUISHER Drum # 148 (55H)	1-32oz							X	X					use waste dilution
10	CLJ-DS-143.01	3/3	1600	X		Drum Sample # 143 01	1x8oz							X						see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
						ASC
1	1-7, 9-10		FE 7526016816	3/3	1800	Split CLJ-DS-11 to make CLJ-DS-11d
2	1-7, 9, 10	FedEx 7526016816	Danita Jensen	3-6 99	1427	
3						NOTE: ITEM #9 possibly very hot w/CLJ
4						

SAMPLER'S SIGNATURE



# CHAIN-OF-CUSTODY RECORD

127969

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)															
CAMP LEJLENE		JACKSONVILLE, NC				<p style="text-align: center;"> <i>TCUP - Metals</i>  <i>pH</i>  <i>TCUP - Fuels</i>  <i>IGNITABILITY</i>  <i>CN/S</i>  <i>TPH-GE</i>  <i>Composite (Obact.)</i>  <i>lab 1 (10/4)</i> </p>														
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.																		
15226	W. Perry																			
CLIENT'S REPRESENTATIVE			PROJECT MANAGER/SUPERVISOR																	
J. Cotton			J. Shepard																	
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)														REMARKS
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X											
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X											
3	CLJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X											
4	CLJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X											
5	CLJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 1	1-32oz		X	X	X	X	X							
6	CLJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2	1-32oz		X	X	X	X	X							
7	CLJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAME POINT # 2 (duplicate)	1-32oz		X	X	X	X	X							QA Duplicate } one sample jar
8	TRIP BLANK																			
9	CLJ-DFE-01	3/3	1600	X		SAMPLE OF FIRE EXTINGUISHER Drum # 148 (55H)	1-32oz													Use waste dilution
10	CLJ-DS-143.01	3/3	1600	X		Drum sample # 143 .01	1x8oz													see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7, 9-10	<i>[Signature]</i>	<i>[Signature]</i> FE 7526016816	3/3	1800	ASC split CLJ-DS-11 to make CLJ-DS-11d
2	1-7, 9, 10	FedEx 7526016816	<i>[Signature]</i> Donita Jensen	3-6-99	1427	
3						NOTE: ITEM #9 possibly very hot w/ cell
4						SAMPLER'S SIGNATURE <i>[Signature]</i>



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

127970

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

PROJECT NAME <b>CAMP LEJEUNE</b>		PROJECT LOCATION <b>Jacksonville, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS						
								TCP	Meals	PH														
1	ELJ-CSS-033	3/3	1300	X		EAST TRENCH - BATTERY AREA: NORTH WALL	1-32oz	X	X															
2	ELJ-CSS-034	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FIRST FLAG	1-32oz	X	X															
3	ELJ-CSS-035	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FIRST FLAG	1-32oz	X	X															
4	ELJ-CSS-036	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FIRST FLAG	1-32oz	X	X															
5	ELJ-CSS-037	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - 2nd FLAG	1-32oz	X	X															
6	ELJ-CSS-038	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - 2nd FLAG	1-32oz	X	X															
7	ELJ-CSS-039	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - 2nd FLAG	1-32oz	X	X															
8	ELJ-CSS-040	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - 3rd FLAG	1-32oz	X	X															
9	ELJ-CSS-041	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - 3rd FLAG	1-32oz	X	X															
10	ELJ-CSS-042	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - 3rd FLAG	1-32oz	X	X															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i>	<i>PE 7526016816</i>	3/3	1800	ASC
2	1-10	<i>PE 7526016816</i>	<i>Donita Jensen</i>	3-6 94	1427	
3						
4						

0335

SAMPLER'S SIGNATURE *[Signature]*



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# CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

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

PROJECT NAME <b>CAMP LEJUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
ROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS		
								TECP - Metals	Pb	TECP - Fuels	IGNITABILITY	CN/S	TPH - GC	Composite	Lab 1 (10/4)					
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X											
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X											
3	CLJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X											
4	CLJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X											
5	CLJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 1	1-32oz		X	X	X	X	X							
6	CLJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2	1-32oz		X	X	X	X	X							
7	CLJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2 (duplicate)	1-32oz		X	X	X	X	X							GA Duplicate } one sample jar
8	TRIP BLANK																			
9	CLJ-DFG-01	3/3	1600	X		SAMPLE OF FIRE EXTINGUISHER DRUM # 148 (55H)	1-32oz							X	X					Use waste dilution
10	CLJ-DS-143.01	3/3	1600	X		Drum sample # 143 #01	1x8oz							X						see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7, 9-10	<i>[Signature]</i>	FE 7526016816	3/3	1800	ASC
2	1-7, 9, 10	FedEx 7526016816	Danita Jones	3-6 94	1427	Split CLJ-DS-11 to make CLJ-DS-11d
3						NOTE: ITEM #9 possibly very hot w/CLJ
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

0336





OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 2

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PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS						
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.			<div style="text-align: center;"> <p>TCLP - Metals</p> <p>PH</p> </div>																
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																			
ITEM NO	SAMPLE NUMBER	DATE	TIME													COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	1-32oz	X	X
1	CLJ-CSS-033	3/3	1300	X		EAST TRENCH - BATTERY AREA: NORTH WALL	1-32oz	X	X												
2	CLJ-CSS-034	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FIRST FLAG	1-32oz	X	X												
3	CLJ-CSS-035	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FIRST FLAG	1-32oz	X	X												
4	CLJ-CSS-036	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FIRST FLAG	1-32oz	X	X												
5	CLJ-CSS-037	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - 2nd FLAG	1-32oz	X	X												
6	CLJ-CSS-038	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - 2nd FLAG	1-32oz	X	X												
7	CLJ-CSS-039	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - 2nd FLAG	1-32oz	X	X												
8	CLJ-CSS-040	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - 3rd FLAG	1-32oz	X	X												
9	CLJ-CSS-041	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - 3rd FLAG	1-32oz	X	X												
10	CLJ-CSS-042	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - 3rd FLAG	1-32oz	X	X												

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10		FE 7526016816	3/3	1800	ASC
2						
3						
4						SAMPLER'S SIGNATURE 



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 2

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PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.			<p style="text-align: center;"> <i>TCUP - Metals</i>  <i>PH</i>  <i>TCUP - Fuel</i>  <i>IGNITABILITY</i>  <i>CNTS</i>  <i>TPH - GC</i>  <i>Compatibility</i>  <i>10/1 (10/1)</i> </p>															
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																		
ITEM NO.	SAMPLE NUMBER	DATE	TIME													COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED	ANALYSIS DESIRED
CAMP LEJUENE		JACKSONVILLE, NC																		
15226	W. Perry																			
J. Cotton		J. Shepard																		
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X											
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X											
3	CLJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X											
4	CLJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X											
5	CLJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #1	1-32oz	X	X	X	X	X								
6	CLJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #2	1-32oz	X	X	X	X	X								
7	CLJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #2 (DUPLICATE)	1-32oz	X	X	X	X	X								QA Duplicate
8	TRIP BLANK																			
9	CLJ-DFE-07	3/3	1600	X		SAMPLE OF FIRE EXTINGUISHER DRUM	1-32oz													use waste dilution
10	CLJ-DS-14	3/3	1600	X		Drum Sample #14/S														see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7, 1-10	<i>WP</i>	<i>FE 7526016816</i>	3/3	1800	ASC. Split CLJ-DS-11 to make CLJ-DS-11d
2						
3						NOTE: ITEM #9 possibly very hot w/CO <sub>2</sub>
4						SAMPLER'S SIGNATURE



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

127969

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

PROJECT NAME <b>CAMP LEJUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)							REMARKS		
								TCUP - Metals	PH	TCUP - Fuels	IGNITABILITY	CN/S	TPH GC	Compatibility Lab (ACU)		(React.)	
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X								
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X								
3	CLJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X								
4	CLJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X								
5	CLJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 1	1-32oz		X	X	X	X	X				
6	CLJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2	1-32oz		X	X	X	X	X				} one sample jar
7	CLJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT # 2 (duplicate)	1-32oz		X	X	X	X	X			GA Duplicate	
8	TRIP BLANK																
9	CLJ-DFE-01	3/3	1600	X		SAMPLE OF FIRE EXTINGUISHER Drum # 148 (5H)	1-32oz										XX Use waste dilution
10	CLJ-DS-143.01	3/3	1600	X		Drum Sample # 143 .01	1x8oz										X see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7, 9-10	<i>[Signature]</i>	<i>[Signature]</i> 7526016816	3/3	1800	ASC
2	1-79, 10	FedEx 7526016816	<i>[Signature]</i> 7526016816	3-6-99	1427	Split CLJ-DS-11 to make CLJ-DS-11d
3						NOTE: ITEM #9 possibly very hot w/ cell
4						SAMPLER'S SIGNATURE <i>[Signature]</i>



HM Corporation

# CHAIN-OF-CUSTODY RECORD

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Form 0019  
Field Technical Services  
Rev. 08/89

137028

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

PROJECT NAME <i>CAMP LEJUEVE</i>		PROJECT LOCATION <i>JACKSONVILLE, NC</i>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>COMPATIBILITY</i>
ROJ NO. <i>15226</i>	PROJECT CONTACT <i>W. PERRY</i>	PROJECT TELEPHONE NO.			
CLIENT'S REPRESENTATIVE <i>J. COTTON</i>		PROJECT MANAGER/SUPERVISOR <i>J. SHEPARD</i>			

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
<i>CLF05-150</i>	<i>3-4-94</i>	<i>2:30</i>		<i>X</i>	<i>BROWN-OPAQUE LIQUID DRUM 150</i>	<i>1-8oz</i>	<i>X</i>	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1</i>	<i>FedEx 7526016816</i>	<i>Donte Jensen</i>	<i>3-6-94</i>	<i>1427</i>	
<i>2</i>						
<i>3</i>						
<i>4</i>						

SAMPLER'S SIGNATURE



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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137028

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

PROJECT NAME <i>CAMP LEJUNE</i>		PROJECT LOCATION <i>JACKSONVILLE, NC</i>	
PROJ. NO. <i>15226</i>	PROJECT CONTACT <i>W. PERRY</i>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <i>J. COTTON</i>		PROJECT MANAGER/SUPERVISOR <i>J. SHEPARD</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS		
								COMPATIBILITY												
1	<i>CLT-15-150</i>	<i>3-4-94</i>	<i>2:30</i>		<i>X</i>	<i>BROWN-OPAQUE LIQUID DRUM 150</i>	<i>1-8oz</i>	<i>X</i>												
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1</i>	<i>FEDEX 75260116816</i>	<i>Dante Jensen</i>	<i>3-6-94</i>	<i>1427</i>	
2						
3						
4						

SAMPLER'S SIGNATURE



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

TRANSFER 2

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## 137068

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS										
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.														
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR															
ITEM NO.	SAMPLE NUMBER	DATE	TIME													COMP
CAMP LEJUENE		JACKSONVILLE, NC		1x8oz	X	} see attached Drum Logo										
15226	W. Perry	910-451-1809														
J. Cotton		J. Shepard														
1	CLJ-DS-145	3/4	1000													
2	CLJ-DS-146	3/4	1000		X	" " 146										
3	CLJ-DS-147	3/4	1000		X	" " 147										
4	CLJ-DS-149	3/4	1000		X	" " 149										
5	all should be DWS/WP															
6																
7																
8																
9																
10																

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	[Signature]	FE 75260116816	3/11	1700	
2						
3						
4						SAMPLER'S SIGNATURE [Signature]



HM Corporation

# CHAIN-OF-CUSTODY RECORD

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137068

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

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
ROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*Compact Testing*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	DS-DS-145	3/4	000		X	DRUM SAMPLE # 145	1x8oz X	} See attached Drum Log
2	DS-DS-146	3/4	1000		X	" 146	1x8oz X	
3	DS-DS-147	3/4	1000		X	" 147	1x8oz X	
4	DS-DS-149	3/4	1000		X	" 149	1x8oz X	
5								
6								
7								
8								
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>[Signature]</i>	<i>[Signature]</i>	3/4	1700	
2	1-4	FEDEX 7526016816	<i>[Signature]</i>	3-6 94	1427	
3						
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

# CHAIN-OF-CUSTODY RECORD

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

PROJECT NAME <b>CAMP LEJUENE</b>				PROJECT LOCATION <b>JACKSONVILLE, NC</b>				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)  <i>Compact Testing</i>			
PROJ. NO. <b>15226</b>		PROJECT CONTACT <b>W. Perry</b>		PROJECT TELEPHONE NO. <b>910-451-1809</b>								
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>				PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>								
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)						
1	<del>DS-DS-145</del>	3/4	000		X	DRUM SAMPLE # 145		1x8oz	X	} see attached Drum Log		
2	<del>DS-DS-146</del>	3/4	1000		X	" " " 146		1x8oz	X			
3	<del>DS-DS-147</del>	3/4	1000		X	" " " 147		1x8oz	X			
4	<del>DS-DS-149</del>	3/4	1000		X	" " " 149		1x8oz	X			
5	~~~~~											
6	~~~~~											
7	~~~~~											
8	~~~~~											
9	~~~~~											
10	~~~~~											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>[Signature]</i>	FE 7526016816	3/4	1700	
2	1-4	FEDEX 7526016816	<i>[Signature]</i>	3-6	1427	
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]*





# CHAIN-OF-CUSTODY RECORD

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

PROJECT NAME <b>CAMP LEJUNE</b>				PROJECT LOCATION <b>JACKSONVILLE, NC</b>				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>COMPATIBILITY</i>											
PROJ. NO. <b>15226</b>		PROJECT CONTACT <b>W. PERRY</b>				PROJECT TELEPHONE NO.														
CLIENT'S REPRESENTATIVE <b>J. COTTON</b>				PROJECT MANAGER/SUPERVISOR <b>J. SHEPARD</b>																
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)												REMARKS		
1	CLT-05-150	3-4-94	2:30		X	BROWN-OPAQUE LIQUID DRUM 150	1-8oz	X												
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1	FOO Ex 75260116816	Donte Jensen	3-6-94	1427	
2						
3						
4						SAMPLER'S SIGNATURE



# CHAIN-OF-CUSTODY RECORD

137068

OHM Corporation

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

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)  
*Compact Testing*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	<del>WT-DS-145</del>	3/4	1000		X	<del>Drum SAMPLE # 145</del>	1x8oz	X	} see attached Drum Log
2	<del>WT-DS-146</del>	3/4	1000		X	<del>146</del>	1x8oz	X	
3	<del>WT-DS-147</del>	3/4	1000		X	<del>147</del>	1x8oz	X	
4	<del>WT-DS-149</del>	3/4	1000		X	<del>149</del>	1x8oz	X	
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>[Signature]</i>	<i>[Signature]</i>	3/4	1700	
2	1-4	FEDEX 7526016816	<i>[Signature]</i>	3-6 94	1427	
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]* 1289



# CHAIN-OF-CUSTODY RECORD

137028

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

PROJECT NAME <b>CAMP LEJUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. PERRY</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. COTTON</b>		PROJECT MANAGER/SUPERVISOR <b>J. SHEPARD</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)  
*COMPATIBILITY*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLF-05-150	3-4-94	2:30		X	BROWN-OPAQUE LIQUID DRUM 150	1-8oz	X	
2									
3									
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1	FEDEX 7526016816	Donita Jensen	3-6-94	1427	
2						
3						
4						

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OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89  
137051

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

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>15226M</i>	PROJECT CONTACT	PROJECT TELEPHONE NO.		
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	<i>C 6527</i>	<i>3-11-94</i>	<i>8:05</i>	<input checked="" type="checkbox"/>		<i>CLJ-DS-02, CLJ-DS-03, CLJ-DS-04, CLJ-DS-05, CLJ-DS-06, CLJ-DS-07, CLJ-DS-07B, CLJ-DS-08, CLJ-DS-09</i>	<i>1-16g</i>	
2								
3								
4								
5								
6								
7								
8								
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<i>1-2</i>	<i>Cindy Polan</i>	<i>Donita Jensen</i>	<i>3-11-94</i>	<i>0813</i>	
2						
3						
4						

0368

SAMPLER'S SIGNATURE



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# CHAIN-OF-CUSTODY RECORD

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## 137051

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PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>15226M</i>	PROJECT CONTACT	PROJECT TELEPHONE NO.			
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	<i>C 6527</i>	<i>3.11.94</i>	<i>8:05</i>	<input checked="" type="checkbox"/>		<i>CLJ-DS-02, CLJ-DS-03, CLJ-DS-04, CLJ-DS-05, CLJ-DS-06, CLJ-DS-07, CLJ-DS-07A, CLJ-DS-08, CLJ-DS-09</i>	<i>1-16g</i>
2							
3							
4							
5							
6							
7							
8							
9							
10							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<i>1-2</i>	<i>Cindy Polan</i>	<i>Donita Jansen</i>	<i>3-11-94</i>	<i>0813</i>	
2						
3						
4						SAMPLER'S SIGNATURE

0368



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# CHAIN-OF-CUSTODY RECORD

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137051

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

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>15226M</i>	PROJECT CONTACT	PROJECT TELEPHONE NO.		
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS												
1	<i>C 6527</i>	<i>3-11-94</i>	<i>8:05</i>	<input checked="" type="checkbox"/>		<i>CLJ-DS-02, CLJ-DS-03, CLJ-DS-04, CLJ-DS-05, CLJ-DS-06, CLJ-DS-07, CLJ-DS-07a, CLJ-DS-08, CLJ-DS-09</i>	<i>1-16g</i>													
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<i>1-2</i>	<i>Cindy Polak</i>	<i>Donita Green</i>	<i>3-11-94</i>	<i>0813</i>	
2						
3						
4						SAMPLER'S SIGNATURE

0368



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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137074

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

PROJECT NAME <b>CAMP LESEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, N.C.</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>William Perry</b>	PROJECT TELEPHONE NO. <b>404-729-3900</b>	
CLIENT'S REPRESENTATIVE <b>John Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>JAMES SHEPARD</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

TDS / TSS / PH +  
METALS / UNPRESERVED  
CYANIDE  
O.N.G.  
82 40  
82 70  
80 80

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	CLJ-DWW-003	3/15	1300		✓	12K POOL 3rd BATCH WATER	VARIES	✓ ✓ ✓ ✓ ✓ ✓	3gals, 2-40ml UOA Reg 1-40ml UOA
2	TRIP BLANK	3/15	1300						
3									
4									
5									
6									
7						Not in use			
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1,2					24 HR. TAT (RUSH)
2	1,2	FBI EX 7526016830		3-16 94	1001	
3						
4						SAMPLER'S SIGNATURE 



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# CHAIN-OF-CUSTODY RECORD

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

PROJECT NAME <b>CAMP LESEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, N.C.</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>William PERRY</b>	PROJECT TELEPHONE NO. <b>404-729-3900</b>	
CLIENT'S REPRESENTATIVE <b>John Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>JAMES SHEPHARD</b>	

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

TSS / TSS / PH  $\checkmark$   
METALS / UNPRESERVED  $\checkmark$   
CYANIDE  
O-N-G  
82 40  
82 70  
80 80

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED										REMARKS				
								TSS	TSS	PH	METALS	CYANIDE	O-N-G	82 40	82 70	80 80	UNPRESERVED		SEPARATE CONTAINERS			
1	CLJ-DWW-003	3/15	1300		$\checkmark$	12k 160L 3rd BATCH WATER	VARIES	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	2-40ml UOA	
2	TRIP BLANK	3/15	1300																			1-40ml UOA
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Not in use  
SM

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1,2					24 HR. TAT (RUSH)
2	1,2	FSD EX 7526016820		3-16	94 1001	
3						
4						

SAMPLER'S SIGNATURE





# CHAIN-OF-CUSTODY RECORD

137074

OHM Corporation

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

PROJECT NAME <b>CAMP LEJEUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, N.C.</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>William Perry</b>	PROJECT TELEPHONE NO. <b>404-729-3900</b>	
CLIENT'S REPRESENTATIVE <b>John Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>James Shephard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS			
								TDS	TSS	PH	METALS	CYANIDE	O-N-G	82	40	82	70		80	80	
1	CLJ-DWW-003	3/15	1300		✓	12k POOL 3rd BATCH WATER	VARIES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	82, 2-40ml UOA
2	TRIP BLANK	3/15	1300																		1-40ml UOA
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Not in use  
SM

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	12					24 HR. TAT (RUSH)
2	12	F&D EX 7526016820		3-16-94	1001	
3						
4						

SAMPLER'S SIGNATURE  
*Susan M. Montie*





OHM Corporation

# CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019  
Field Technical Services  
Rev. 08/89

143892

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. 15226N	PROJECT CONTACT	PROJECT TELEPHONE NO.			
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	C6617	6/24/94	15:53	X		001, 002, 003, 004, 005, 006, 008, 009, 010, 011, 013, 014, 018, 019, 021, 022, 024, 025, 026, 032, 043, 063, 072, 074, 076, 077, 078, 079, 080, 149	1/2 Gal.
2	↓					020	
3	C6618	6/24/94	15:53	X		015, 147	1-8oz
4	C6619	6/24/94	15:53	X		012, 145, 146	1-16oz
5	C6620	6/24/94	15:53	X		007, 143, 150	1-32oz
6	C6621	6/24/94	15:53	X		022, 099, 148	1-16oz
7	C6622	6/24/94	15:53	X			
8							
9							
10							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	More From	Wade T. Delay	6-24-94	1602	
2						
3						
4						SAMPLER'S SIGNATURE

0523





# CHAIN-OF-CUSTODY RECORD

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Field Technical Services  
Rev. 08/89

127969

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

PROJECT NAME <b>CAMP LESJUNE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS			
								TECP - Metals	PH	TECP - Fuels	IGNITABILITY	CNTS	TPH - GC	COMBUSTIBILITY (REACT.)							
1	CLJ-CSS-043	3/3	1300	X		EAST TRENCH - BATTERY AREA: EAST WALL - FOURTH FLAG	1-32oz	X	X												
2	CLJ-CSS-044	3/3	1300	X		EAST TRENCH - BATTERY AREA: FLOOR - FOURTH FLAG	1-32oz	X	X												
3	ELJ-CSS-045	3/3	1300	X		EAST TRENCH - BATTERY AREA: WEST WALL - FOURTH FLAG	1-32oz	X	X												
4	ELJ-CSS-046	3/3	1300	X		EAST TRENCH - BATTERY AREA: SOUTH WALL	1-32oz	X	X												
5	ELJ-DS-10	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #1	1-32oz		X	X	X	X	X								
6	ELJ-DS-11	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #2	1-32oz		X	X	X	X	X								
7	ELJ-DS-11d	3/3	1300	X		BATTERY AREA - SOIL STOCKPILE SAMPLE POINT #2 (DUPLICATE)	1-32oz		X	X	X	X	X							QA Duplicate	one sample jar
8	TRIP BLANK																				
9	CLJ-DFG-01	3/3	1600	X		SAMPLE OF FIRE EXTINGUISHER DRUM # 148 (55H)	1-32oz														Use waste dilution
10	CLJ-DS-148.01	3/3	1600	X		Drum sample #143 01	1x8oz														see attached drum log.

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7, 9-10	<i>[Signature]</i>	<i>[Signature]</i> 7526016816	3/3	1800	ASC Split CLJ-DS-11 to make CLJ-DS-11d
2	1-7, 9, 10	FedEx	7526016816 <i>[Signature]</i>	3-6 99	1427	
3						NOTE: ITEM #9 possibly very hot w/CLJ
4						SAMPLER'S SIGNATURE <i>[Signature]</i>

0528



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

1/3 COPY  
Form 0019  
Field Technical Services  
Rev. 08/89  
137068

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

PROJECT NAME <b>CAMP LEJUENE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. Perry</b>	PROJECT TELEPHONE NO. <b>910-451-1809</b>	
CLIENT'S REPRESENTATIVE <b>J. Cotton</b>		PROJECT MANAGER/SUPERVISOR <b>J. Shepard</b>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)		REMARKS
1	RLJ-DS-145	3/4	1000		X	Drum SAMPLE # 145	1x8oz	X		} See attached Drum Log
2	RLJ-DS-146	3/4	1000		X	" 146	1x8oz	X		
3	RLJ-DS-147	3/4	1000		X	" 147	1x8oz	X		
4	RLJ-DS-149	3/4	1000		X	" 149	1x8oz	X		
5	<i>[Handwritten scribble]</i>									
6	<i>[Handwritten scribble]</i>									
7	<i>[Handwritten scribble]</i>									
8	<i>[Handwritten scribble]</i>									
9	<i>[Handwritten scribble]</i>									
10	<i>[Handwritten scribble]</i>									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>[Signature]</i>	FE 7526016816	3/4	1700	<b>0529</b>
2	1-4	FE 7526016816	<i>[Signature]</i>	3-6 94	1427	
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]* 1289



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

137028

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

PROJECT NAME <b>CAMP LEJUEVE</b>		PROJECT LOCATION <b>JACKSONVILLE, NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT <b>W. PERRY</b>	PROJECT TELEPHONE NO.	
CLIENT'S REPRESENTATIVE <b>J. COTTON</b>		PROJECT MANAGER/SUPERVISOR <b>J. SHEPARD</b>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)  
*COMPATIBILITY*

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	CLT-15-150	3-4-94	2:30		X	BROWN-OPAQUE LIQUID DRUM 150	1-8oz	X	
2									
3									
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1	FODEX 752160116816	<i>Dante Jensen</i>	3-6-94	1427	
2						
3						
4						

0530

SAMPLER'S SIGNATURE







OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

## No 116079

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

PROJECT NAME <b>CAMP KESEUNE (NEESA)</b>		PROJECT LOCATION <b>JACKSONVILLE NC</b>	
PROJ. NO. <b>15226</b>	PROJECT CONTACT	PROJECT TELEPHONE NO. <b>910 451-1809</b>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <b>KRANT GEIS</b>	

NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
	<b>Pesticides (EPA 8080)</b>	

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	CLT-WCS-001	8/24	0920	X		SOIL	1	X	
* 2	CLT-WCS-002	8/24	1025			SOIL	1	X	Sample # CLT-WCS-002-C on Sample Label u
* 3	CLT-WCS-005	8/26	0840				1	X	* Sample # CLT-WCS-005-C on Sample Label u
* 4	CLT-WCS-006		0850				1	X	" * CLT-WCS-006-C on Sample Label u
5	CLT-WCS-007		0854				1	X	
6	CLT-WCS-008		0902				1	X	
7	CLT-WCS-009		0910				1	X	
8	CLT-WCS-010		1007				1	X	
9	CLT-WCS-011		1015				1	X	
10	CLT-WCS-012		1025				1	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>[Signature]</i>	FRED XAIRBIL 6730185534	8/31		48 HR TAT AS PER QUOTE 0068.
2	1-10	Fed.	<i>[Signature]</i>	9-1 94	1017	
3						
4						SAMPLER'S SIGNATURE



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

Form 0019  
Field Technical Services  
Rev. 08/89

## Nº 116114

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

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)							REMARKS
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.			TOTAL DISSOLVED + SUSPENDED SOLIDS	VOLATILE + SEMI-VOLATILE	PESTICIDES / PCB	TAL METALS	ACID IMB (CL NO. 504 P04)	TOTAL H <sub>2</sub> O + BTU FLASH POINT	HAZARD CATEGORY (AMBU. REACTIVE)	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR										
ITEM NO.	SAMPLE NUMBER	DATE	TIME		COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)					
	LOT 203 SITE 6					CAMP LEJEUNE, NC						
	15226					919 467-2349						
						KENT GIBBS						
1	CLJ-DWS-144			X		DK. LIQUID - ORGANIC		2-qt				
2	CLJ-DWS-102			X		5% BRN ORG LIQ / 95% ORANGE Aq. LIQ		2-qt	X	X	X	X
3	CLJ-DWS-151			X		BROWN SOLID		2-qt	X	X	X	X
4	CLJ-DWS-075			X		DK BROWN ORGANIC SLUDGE		2-qt	X	X	X	X
5												
6												
7												
8												
9												
10						1						

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>D. Gibb</i>	FEDX AIRBILL 2404032271	11/9		10 DAY TURN AROUND FAX RESULTS TO NC. OFFICE.
2	1-4	Fed X 2404032271	M. Radabaugh	11/10/94	0951	
3						
4						

00659

SAMPLER'S SIGNATURE



OHM Corporation

# CHAIN-OF-CUSTODY RECORD

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Rev. 08/89  
139233

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

PROJECT NAME <b>Camp Leicune</b>						PROJECT LOCATION <b>Jacksonville NC</b>						NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	Please see ATTACHED Sheet for ANALYTICAL DATA.																	
PROJ. NO. <b>15226</b>		PROJECT CONTACT <b>Randy Smith</b>				PROJECT TELEPHONE NO. <b>(910) 451-1809</b>																									
CLIENT'S REPRESENTATIVE <b>John Cotton</b>						PROJECT MANAGER/SUPERVISOR <b>Jim Dunn / Randy Smith</b>																									
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)																				REMARKS					
1	CLJ-DD-01	12/8/94	1455	X		WIRE from Northern AND Southern Trenches						CLJ-DD-01 Sample #																			
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1	Breg Drake	FED-X	12/8/94	1600	10 DAY TAT Please fax Results to Kent Geis GAP <del>919-467-2640</del> 919-467-2640
2	1	FedX 421845653	M. Radabaugh	12/8/94	1029	
3						
4						

SAMPLER'S SIGNATURE  
*Alan Drake*

0361



# CHAIN-OF-CUSTODY RECORD

144116

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

PROJECT NAME <i>Camp LeJeune</i>		PROJECT LOCATION <i>Jacksonville NC</i>	
PROJ. NO. <i>15226</i>	PROJECT CONTACT <i>Greg Drake</i>	PROJECT TELEPHONE NO. <i>910 451-1809</i>	
CLIENT'S REPRESENTATIVE <i>John Cotton</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Randy Smith</i>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED  
(INDICATE SEPARATE CONTAINERS)

*TD3 / TSS / PH*  
*METALS / UNPRESERVED*  
*CYANIDE*  
*D-N-6*  
*82 40*  
*82 70*  
*8080*

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
<i>1</i>	<i>CLS-DWN-001</i>	<i>1/23/05</i>	<i>1300</i>		<input checked="" type="checkbox"/>	<i>DECON WATER</i>	<i>2-32m 2-40mL</i>	<i>X X X X X X X X</i>	<i>Bubble (x1)</i>
<i>2</i>	<i>CLT-TB Trip Blank</i>	<i>1/23/05</i>	<i>1300</i>		<input checked="" type="checkbox"/>	<i>TREP Blank</i>	<i>1-40mL VOL</i>		<i>Bubble (x1)</i>
3									
4									
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1 &amp; 2</i>	<i>Fed-Ex Greg Drake</i>	<i>Fed-Ex</i>	<i>1/23/05</i>	<i>1300</i>	<i>7 DAY TAT</i> <i>PLEASE FAX RESULTS.</i> <i>910 451-1809</i>
<i>2</i>	<i>1-2</i>	<i>FedEx 5927356341</i>	<i>M. Radabaugh</i>	<i>1/25/05</i>	<i>1152</i>	
3						
4						

SAMPLER'S SIGNATURE  
*[Signature]* 8783

0152



# CHAIN-OF-CUSTODY RECORD

Form 0019  
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Rev. 08/89

1.44117

OHM Corporation

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

PROJECT NAME <i>Camp LeJeune</i>						PROJECT LOCATION <i>Jacksonville NC</i>						NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
PROJ. NO. <i>15226</i>		PROJECT CONTACT <i>GREG DRAKE</i>				PROJECT TELEPHONE NO. <i>910 451 1809</i>				<i>TDS / TSS / PH</i> <i>MEMS / unfiltered</i> <i>CYANIDE</i> <i>D-N-S</i> <i>32 40</i> <i>52 70</i> <i>80 80</i>				
CLIENT'S REPRESENTATIVE <i>John Colton</i>						PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Randy Smith</i>								
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)						NUMBER OF CONTAINERS	REMARKS	
<i>1</i>	<i>DLJ-DWW-001</i>	<i>1/25/85</i>	<i>1400</i>		<input checked="" type="checkbox"/>	<i>Decon water</i>						<i>3-32oz</i>	<i>3 @ 32oz</i>	
2														
3														
4														
5														
6														
7														
8														
9														
10														

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1</i>	<i>GREG DRAKE</i>	<i>FGN-EX</i>	<i>1/25/85</i>	<i>1400</i>	<i>7 DAY TAT</i> <i>Please Fax Results</i> <i>910 451-1809</i> SAMPLER'S SIGNATURE <i>[Signature]</i> <i>87830114</i>
<i>2</i>	<i>1</i>	<i>Fedex 5927356352</i>	<i>M. Radabaugh</i>	<i>1/26/85</i>	<i>1018</i>	
<i>3</i>						
<i>4</i>						

0153

**Appendix H**  
**QC Documentation**

Quality Control Weekly Meeting Minutes  
For the Week Beginning January 24, 1994

During the month of January OHM mobilized and began on-site operations, in summary the tasks accomplished include:

- Mobilization of personnel and equipment
- Setup of support facilities (decontamination and office trailers)
- Construction of four lined staging cells
- Securing (grubbing, access and installation of safety fence) of both proposed excavation areas.
- Installation of new gate.
- Construction of water (rinse and run-on water) collection system.

The above referenced items were completed on schedule.

The following items were discussed, several field modification were approved in attempts to: reduce cost; were not deemed necessary; or field conditions facilitated the change, in summary they are as follows:

- Existing soils in the vicinity of the staging cells have been utilized to construct the berms for the staging cells rather than transport soil from the Base borrow area.
- Gravel was not used in the cell construction of the decontamination pad, contaminated soil staging cell and the drum staging cell. Timbers were used in the decontamination pad, contaminated soil will be placed in the soil staging cell as a base and clean on-site soils were used as a base in the drum staging cell.
- The existing soils were sufficient to facilitate vehicle and heavy equipment traffic. Gravel has been and will be utilized when necessary (for ramps, low or wet areas in the road etc.).
- The construction of the processing cell has been postponed until needed.
- The new gate to be installed near Area G, Lot 203 has been placed at an approved location within the existing fence, to facilitate access to the Northern excavation through lot 203. A extension from the fence at the northeast corner as been installed to stop vehicle traffic from entering the site via Piney Green road.
- The Forestry Division determined that some of the trees to be removed were of harvestable value. OHM topped the

trees placed them along side the nearest road for pickup and stockpiled the stumps.

- Field investigations after clearing and grubbing have revealed battery cells south of trench No. 6-TP5 (southern excavation) and buried waste (communication wire and drums) north of trench No. GS-1960D (northern excavation). Additional excavation(s) maybe anticipated.
- Several of the surface drums located in Area G have been removed by others. it appears that the drums were considered Investigation Derived waste and were removed by Baker environmental.
- A temporary opening was made in the fence to gain access to the southern excavation. This will eliminate a long haul of hazardous materials and drums through the main gate to Lot 203.

Each of the above has been transmitted in a memo to the NTR or addressed in the Daily Report and require no additional modifications (scope or cost) at this time. The following items may have a direct effect on cost and or will deviate from the scope of work.

- During excavation to tap into an existing water line approximately six 55-gallon drums were unearthed. The drums were outside of any expected burial areas, nor could any reasonable estimate in the number of drums be determined. Under direction of the NTR the drums and excavation was left as is until notified other wise.
- Based on conversations with Baker Environmental and the initial excavation of the southern trenches, very few buried 55 gallon drums will be encountered. A variety of containers have been excavated (glass vials, porcelain jugs, and metal containers of various sizes). To sample each of these containers would not be cost effective, nor may it be necessary. At present the containers can be field screened and composite in drums. This may not be an economical method if there is a large number of containers. Roll-off containers would be an acceptable means of containment and economical, should the volume of containers increase. The containers will be field screened and segregated in accordance to the attached memo from Tom Mears 1/19/94. In addition this will require a modification to the field sampling plan as noted in the memo from William Perry 1/24/94.
- The dimension of trench No. 6-TP5 exceed that of the RAC. Approximately 66 feet of 110 feet of the trench has been excavated and the width of the trench is averaging 15 feet and depth ranges from 8 to 10 feet below grade. These dimension will produce an over run in excavated



material of approximately 300 percent.

- The intention of mechanically segregating the soil and debris was to render the debris non-hazardous (to be verified via sampling). The NTR has requested the material be shipped to DRMO which would require triple rinsing the debris. Based on the present accumulation of debris it will be a labor intensive project and generate a larger volume of rinse water for disposal. If the DRMO would except the debris based on the described method in the Work Plan there would be no change in scope.
- DRMO will accept the empty (triple rinsed) 55 gallon drums, rather than send them off-site for disposal at an estimated cost savings of \$1,800.00.
- Because containers were discovered north of the trenches in Area G, OHM has requested to start excavation where the containers were discovered (outside the designated trench location) and proceed to the south toward the known trenches.
- Questions were raised concerning the size of the work crew and equipment being utilized. as operations continue crews will start sampling drums and soils and rinsing of empty containers, these task will require all available personnel and equipment presently on-site. OHM was requested to monitor utilization and if possible demobilize any equipment or personnel if possible.
- Additional QC sampling has been approved at a cost of \$10,400.
- A letter has been submitted to the appropriate personnel in attempts to identify if the buried waste is a listed waste. Environmental Management Department (EMD) will provide to OHM eight volumes of material to be review in attempts to identify any buried waste.

#### ACTION ITEMS

The following items require action from the Navy Technical Representative (NTR):

- A decision on how to proceed with the buried drums unearthed during excavation of the water line.
- A determination on whether to triple rinse the debris or sample it for DRMO.
- A determination on what to do concerning the batteries located at the southern excavation area.
- Review and approve Memos from William Perry (1/24/94 and

1/27/94) concerning modifications to Sampling Plan.

The following items require action from OHM:

- Provide criteria for field screening technique (i.e. selection of 5 ppm as action level for head space analysis).
- Review material supplied by EMD to determine waste classification.

WORK PLANNED FOR NEXT WEEK

Plans for the week of January 31, 1994 include excavation of the two southern trenches, collection, staging and sampling of all buried drums associated with the trenches. Continue removing and stockpiling debris and soil from said excavations.

Minutes of Weekly QC Meeting  
March 1, 1994

Attendees: Jim Shepard  
Steve Bridges  
Steve Challeen  
John Cotton  
Bill MacKay  
Tom Morris  
William Perry

Operations completed since last meeting:

- Sample collection completed on all waste streams
- Confirmatory sampling completed on all applicable trenches
- Collection and triple rinsing of all surface drums
- Consolidation of surface drums for disposal

Operations in progress:

- Excavation and stockpiling of dry cell batteries
- Staging of soil and debris associated with batteries adjacent to trenches

Items discussed during meeting:

- A site visit was conducted by EPA, North Carolina Super Fund, County Health and LANTDIV.
- EPA has verbally approved backfilling southern trenches with associated stockpile if material is non-hazardous and acceptable TPH levels according to State Regulations.
- All bulk loads (10,000 gal) of water for placement in the Base water treatment plant will require sampling and analysis.

Action items:

- OHM to remove paint cans from stockpile associated with battery trenches, will extend field schedule by approximately three days.
- The Navy will determine disposal placement of the debris.

- OHM to pressure wash (decontaminate) the drum rinsing cell and the equipment decontamination cell prior to interim demobilization. This will enable run-on to be discharged to ground surface.
- OHM to utilize a subcontractor for disposal of asbestos, Base supplied names of two companies for bids.
- Navy to identify white powder used as packing for DS2 agent, prior to OHM's segregating the compounds for disposal.
- Navy to identify if office trailer will remain on-site after final demobilization. Monthly cost for trailer \$488.00.
- EMD and ROICC will conduct inspection to determine if all surface drums identified in RAC have been collected.

If there are any discrepancies or corrections to these minutes please note the changes and return to OHM attention Kent Geis by close of business March 4, 1994, (fax 919/467-2640).

**Appendix I**  
**Analytical Data (chronological)**

Camp Lejeune 15226

SAMPLE SUMMARY REPORT

<u>SAMPLE NUMBER</u>	<u>SAMPLE DATE</u>	<u>SAMPLE LOCATION</u>	<u>COC NUMBER</u>	<u>LAB ID</u>	<u>LAB SAMPLE ID</u>	<u>DOO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-DS-01	2/4/94	S. EXCAV.; SOIL STOCKPILE	137079	ASC	JM3169	IV	615121	7526016750
CLJ-DS-01a	2/4/94	S. EXCAV.; SOIL STOCKPILE (SPLIT A)	137079	ASC	JM3170	IV	615121	7526016750
CLJ-DS-01b	2/4/94	S. EXCAV.; SOIL STOCKPILE (SPLIT B)	137079	ASC	JM3171	IV	615121	7526016750

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

<b>Sample Point ID:</b>	CLJ-DS-01	CLJ-DS-01A	CLJ-DS-01B
ASC Sample Number:	JM3169	JM3170	JM3171
Sample Date:	940204	940204	940204
Facility Code:	015226N	015226N	015226N

Parameters	Units
------------	-------

**Conventional Data (CV10)**

Flash Point, Seta Flash 60	Deg C	>60	>60	>60
Reactive Cyanide	mg/kg	<10.0	<10.0	<10.0
Reactive Sulfide	mg/kg	<10.0	<10.0	<10.0
pH (Test Strip)	std	6.03	6.24	5.89

**Total PCB Analysis, GC, (GS03)**

Aroclor 1016	mg/kg	<.331	<.333	<.330
Aroclor 1221	mg/kg	<.331	<.333	<.330
Aroclor 1232	mg/kg	<.331	<.333	<.330
Aroclor 1242	mg/kg	<.331	<.333	<.330
Aroclor 1248	mg/kg	<.331	<.333	<.330
Aroclor 1254	mg/kg	<.331	<.333	<.330
Aroclor 1260	mg/kg	<.331	<.333	<.330

**Total Petroleum Hydrocarbons Analysis, GC, (GS17)**

Light hydrocarbons (C2 - C10)	mg/kg	<4.22	<4.73	<4.73
Medium hydrocarbons (C10 - C21)	mg/kg	23.0	22.8	<16.5
Heavy hydrocarbons (C21 - C40)	mg/kg	340	192	157

**RCRA TCLP Leachate Herbicide Analysis, GC, (GS52)**

2,4-D	mg/L	<.250	<.250	<.250
2,4,5-TP (Silvex)	mg/L	<.250	<.250	<.250

**RCRA TCLP Leachate Pesticide Analysis, GC, (GS54)**

Endrin	mg/L	<.002	<.002	<.002
Heptachlor	mg/L	<.001	<.001	<.001
Heptachlor epoxide	mg/L	<.001	<.001	<.001
Methoxychlor	mg/L	<.01	<.01	<.01
Toxaphene	mg/L	<.100	<.100	<.100
Gamma-BHC	mg/L	<.001	<.001	<.001
alpha-Chlordane	mg/L	<.001	<.001	<.001
gamma-Chlordane	mg/L	<.001	<.001	<.001

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

<b>Sample Point ID:</b>	CLJ-DS-01	CLJ-DS-01A	CLJ-DS-01B
ASC Sample Number:	JM3169	JM3170	JM3171
Sample Date:	940204	940204	940204
Facility Code:	015226N	015226N	015226N

Parameters Units

### RCRA TCLP Leachate Metals Analysis, (ME52)

	mg/L				
Arsenic	<.001	<.001	<.001	<.001	
Barium	.941	.698	.435		
Cadmium	.002	.002	.002		
Chromium	<.004	<.004	<.004		
Lead	.499	.133	3.77		
Mercury	<.001	<.001	<.001		
Selenium	<.001	<.001	<.001		
Silver	<.008	<.008	<.008		

### RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)

2,4-Dinitrotoluene	mg/L	<.100	<.100	<.100	
Hexachlorobenzene	mg/L	<.100	<.100	<.100	
Hexachloroethane	mg/L	<.100	<.100	<.100	
Hexachlorobutadiene	mg/L	<.100	<.100	<.100	
2-Methylphenol	mg/L	<.100	<.100	<.100	
4-Methylphenol	mg/L	<.100	<.100	<.100	
Nitrobenzene	mg/L	<.100	<.100	<.100	
Pentachlorophenol	mg/L	<.100	<.100	<.100	
Pyridine	mg/L	<.100	<.100	<.100	
2,4,5-Trichlorophenol	mg/L	<.100	<.100	<.100	
2,4,6-Trichlorophenol	mg/L	<.100	<.100	<.100	
Lindane	mg/L	<.100	<.100	<.100	
Methoxychlor	mg/L	<.100	<.100	<.100	

### RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)

Benzene	mg/L	<.125	<.125	<.125	
Carbon tetrachloride	mg/L	<.125	<.125	<.125	
Chlorobenzene	mg/L	<.125	<.125	<.125	
Chloroform	mg/L	<.125	<.125	<.125	
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	
1,1-Dichloroethylene	mg/L	<.125	<.125	<.125	
Methyl ethyl ketone	mg/L	<.250	<.250	<.250	
Tetrachloroethylene	mg/L	<.125	<.125	<.125	
Trichloroethylene	mg/L	<.125	<.125	<.125	



# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	CLJ-DS-01	CLJ-DS-01A	CLJ-DS-01B
ASC Sample Number:	JM3169	JM3170	JM3171
Sample Date:	940204	940204	940204
Facility Code:	015226N	015226N	015226N

Parameters

Units

RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)

Vinyl chloride	mg/L	<.125	<.125	<.125
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INTERNATIONAL  
TECHNOLOGY  
CORPORATION

# ANALYTICAL SERVICES

## CERTIFICATE OF ANALYSIS

OHM Corporation  
100 Dominion Drive  
Suite 107  
Morrisville, NC 27560-9259  
Attn: Kent Geis

March 2, 1994

Job Number: 4

P.O. Number: N/A

This is the Certificate of Analysis for the following samples:

Client Project ID:	Camp LeJune
Date Received by Lab:	02/05/94
Number of Samples:	Five (5)
Sample Type:	Soil - three (3), Rinsate - one (1), Trip Blank - one (1)

### I. Introduction

On February 5, 1994, three (3) soil samples, one (1) rinsate sample and one (1) trip blank sample arrived at the ITAS-Knoxville, Tennessee, laboratory from OHM Corporation, Morrisville, North Carolina. The list of analytical tests performed, as well as date of receipt and analysis, can be found in the attached report.

### II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. Each set of data will include sample identification information and the analytical results. Please note that the data are not blank corrected.

The samples were analyzed for Target Compound List (TCL) volatiles by gas chromatography/mass spectroscopy (GC/MS) in accordance with the EPA CLP 3/90 Statement of Work.

Reviewed and Approved:

Sheree' Schneider  
Project Manager

## II. Analytical Results/Methodology (Continued)

The samples were analyzed for Target Compound List (TCL) semivolatiles by gas chromatography/mass spectroscopy (GC/MS) in accordance with the EPA CLP 3/90 Statement of Work.

The samples were analyzed for Target Compound List (TCL) pesticides and PCBs by gas chromatography/electron capture detection (GC/ECD) in accordance with the EPA CLP 3/90 Statement of Work.

The samples were analyzed for Target Analyte List (TAL) metals by cold vapor atomic absorption spectroscopy (CVAA), graphite furnace atomic absorption spectroscopy (GFAA), and inductively coupled plasma spectroscopy (ICP) in accordance with the EPA CLP ILM01 Statement of Work.

The samples were analyzed for total cyanide in accordance with the EPA CLP ILM01 Statement of Work.

## III. Quality Control

The volatiles analyses were performed on February 8 and February 10, 1994 by purge and trap with a J & W DB-624 column on Finnigan INCOS 500 and Hewlett-Packard 5970 GC/MS/DS units. Manual integration of carbon disulfide was necessary in VSTD020, VSTD050, VSTD100, and CSTD200 of the initial calibration analyzed on the 5970 instrument on January 26, 1994. Manual integration of 1,2-dichloroethene (total) was required in all initial and continuing calibration analyses from the INCOS 500. Manual integration of xylenes (total) was also required in sample CLJCSS014D. An LCS was analyzed and identified as VLCS1W. There were no other problems seen in final data review.

The semivolatiles analyses were performed on February 16 and February 17, 1994 by direct injection of sample extract on a Restek XTI-5 capillary column on a Finnigan INCOS XL GC/MS/DS unit. Benzo(b)fluoranthene and benzo(k)fluoranthene required manual integration in all initial and continuing calibration analyses. Manual integration of 4-nitroaniline was necessary in all initial calibration analyses except SSTD020. There were no other problems seen in final data review.

The samples were analyzed for Pesticides/PCBs using DB-608 and RTX-1701 0.53mm ID megabore capillary columns. One (1.0)  $\mu$ l was injected for each column. Sample CLJCSS015D had a pH outside the accepted criteria. A calibration standard PEMFY analyzed January 24, 1994 at 1030 on 5890G DB608 had endrin, DDT and methoxychlor exceeding 25.0 RPD. A second PEM continuing calibration standard was analyzed before any samples were analyzed and met all criteria. INDBMER analyzed February 16, 1994 at 0328 failed to meet the 25.0 RPD requirement for endrin aldehyde. Continuing standards INDAMES analyzed on February 16, 1994 at 1504 had DCB exceeding 25.0 RPD, standard INDBMES had endrin aldehyde exceeding 25.0 RPD. The GPC weekly check M2432S1 used to calibrate the GPC instrument did not meet the 80%-110% recovery for the six pesticide compounds

### III. Quality Control (Continued)

as compared to the initial calibration for the DB1701 column (5890H). The sample GPC solution was diluted and was not put through GPC cleanup and that solution was analyzed on the DB1701. This solution was labeled as M2434S3. The percent recoveries of the S1 solution as compared to the recoveries of the S3 solution were well within the acceptable range. This procedure was used because continuing calibration standards are considered acceptable within a range of +/- 25.0%. Using the diluted GPC standard solution M2434S3 as a reference is a more reliable means of determining the performance of the GPC cleanup apparatus. Sample chromatograms that were manually reintegrated will be denoted by a +M or a -M. The blanks and their associated samples were treated to remove sulfur.

The samples were digested on February 16, 1994 for ICP and on February 9, 1994 for GFAA. The samples for mercury analysis were prepared just prior to analysis. The CVAA analysis for mercury was performed on February 9, 1994; the GFAA analyses for arsenic, lead, selenium and thallium were performed on February 9, 1994 and February 10, 1994; the remaining metals were analyzed by ICP on February 16, 1994. All run QC was acceptable. No problems were encountered.

Camp Lejeune 15226

QA/QC SUMMARY REPORT

<u>SAMPLE NUMBER</u>	<u>SAMPLE DATE</u>	<u>SAMPLE LOCATION</u>	<u>COC NUMBER</u>	<u>LAB ID</u>	<u>LAB SAMPLE ID</u>	<u>DQO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-CSS-001	2/4/94	S. EXCAV.; E. TRENCH; N. WALL	137082	ITAS		IV	4	7526016735
CLJ-CSS-014	2/4/94	S. EXCAV.; E. TRENCH; S. WALL	137082	ITAS		IV	4	7526016735
CLJ-CSS-015	2/4/94	S. EXCAV.; W. TRENCH; N. WALL	137082	ITAS		IV	4	7526016735

# **VOLATILE ORGANICS**

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS01D

Lab Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: AA0071

Sample wt/vol: 5.0 (g/mL) G Lab File ID: ABH04

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: not dec. 11 Date Analyzed: 02/08/94

GC Column: DB-624 ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	11	U
74-83-9-----	Bromomethane	11	U
75-01-4-----	Vinyl Chloride	11	U
75-00-3-----	Chloroethane	11	U
75-09-2-----	Methylene Chloride	18	B
67-64-1-----	Acetone	2	BJ
75-15-0-----	Carbon Disulfide	11	U
75-35-4-----	1,1-Dichloroethene	11	U
75-34-3-----	1,1-Dichloroethane	11	U
540-59-0-----	1,2-Dichloroethene (total)	11	U
67-66-3-----	Chloroform	11	U
107-06-2-----	1,2-Dichloroethane	11	U
78-93-3-----	2-Butanone	11	U
71-55-6-----	1,1,1-Trichloroethane	11	U
56-23-5-----	Carbon Tetrachloride	11	U
75-27-4-----	Bromodichloromethane	11	U
78-87-5-----	1,2-Dichloropropane	11	U
10061-01-5-----	cis-1,3-Dichloropropene	11	U
79-01-6-----	Trichloroethene	11	U
124-48-1-----	Dibromochloromethane	11	U
79-00-5-----	1,1,2-Trichloroethane	11	U
71-43-2-----	Benzene	11	U
10061-02-6-----	trans-1,3-Dichloropropene	11	U
75-25-2-----	Bromoform	11	U
108-10-1-----	4-Methyl-2-Pentanone	11	U
591-78-6-----	2-Hexanone	11	U
127-18-4-----	Tetrachloroethene	11	U
79-34-5-----	1,1,2,2-Tetrachloroethane	11	U
108-88-3-----	Toluene	11	U
108-90-7-----	Chlorobenzene	11	U
100-41-4-----	Ethylbenzene	11	U
100-42-5-----	Styrene	11	U
1330-20-7-----	Xylene (total)	11	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS014D

Name: ITAS-KNOXVILLE Contract: 15226  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0073  
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: ABH06  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: not dec. 9 Date Analyzed: 02/08/94  
 GC Column: DB-624 ID: 0.250 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	44	B
67-64-1	-----Acetone	4	BJ
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	11	U
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	3	J
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	42	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	53	U



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS015D

Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: AA0075

Sample wt/vol: 5.0 (g/mL) G Lab File ID: ABH05

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: not dec. 10 Date Analyzed: 02/08/94

GC Column: DB-624 ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	Q
74-87-3	-----Chloromethane	11 U
74-83-9	-----Bromomethane	11 U
75-01-4	-----Vinyl Chloride	11 U
75-00-3	-----Chloroethane	11 U
75-09-2	-----Methylene Chloride	13 B
67-64-1	-----Acetone	2 BJ
75-15-0	-----Carbon Disulfide	11 U
75-35-4	-----1,1-Dichloroethene	11 U
75-34-3	-----1,1-Dichloroethane	11 U
540-59-0	-----1,2-Dichloroethene (total)	11 U
67-66-3	-----Chloroform	11 U
107-06-2	-----1,2-Dichloroethane	11 U
78-93-3	-----2-Butanone	11 U
71-55-6	-----1,1,1-Trichloroethane	11 U
56-23-5	-----Carbon Tetrachloride	11 U
75-27-4	-----Bromodichloromethane	11 U
78-87-5	-----1,2-Dichloropropane	11 U
10061-01-5	-----cis-1,3-Dichloropropene	11 U
79-01-6	-----Trichloroethene	11 U
124-48-1	-----Dibromochloromethane	11 U
79-00-5	-----1,1,2-Trichloroethane	11 U
71-43-2	-----Benzene	11 U
10061-02-6	-----trans-1,3-Dichloropropene	11 U
75-25-2	-----Bromoform	11 U
108-10-1	-----4-Methyl-2-Pentanone	11 U
591-78-6	-----2-Hexanone	11 U
127-18-4	-----Tetrachloroethene	11 U
79-34-5	-----1,1,2,2-Tetrachloroethane	11 U
108-88-3	-----Toluene	3 J
108-90-7	-----Chlorobenzene	11 U
100-41-4	-----Ethylbenzene	11 U
100-42-5	-----Styrene	11 U
1330-20-7	-----Xylene (total)	11 U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQUIPMENTRINS

Lab Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) WATER Lab Sample ID: AA0077

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AA0077

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/08/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	2	BJ
67-64-1-----	Acetone	150	
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	2	J
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) WATER Lab Sample ID: AA0078

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: AA0078

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/08/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	10	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1P

Lab Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: PB0208

Sample wt/vol: 5.0 (g/mL) G Lab File ID: ABH03

Level: (low/med) LOW Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/08/94

GC Column: DB-624 ID: 0.250 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	3	J
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	2	J
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1W

Lab Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) WATER Lab Sample ID: WB0208

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: WB0208

Level: (low/med) LOW Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/08/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	2	J
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2W

Name: ITAS-KNOXVILLE Contract: 15226  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) WATER Lab Sample ID: WB0210  
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: WB0210  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 02/10/94  
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	Q
75-01-4-----	Vinyl Chloride	0.010 U
75-35-4-----	1,1-Dichloroethene	0.005 U
67-66-3-----	Chloroform	0.005 U
107-06-2-----	1,2-Dichloroethane	0.005 U
78-93-3-----	Methyl Ethyl Ketone	0.010 U
56-23-5-----	Carbon Tetrachloride	0.005 U
79-01-6-----	Trichloroethene	0.005 U
71-43-2-----	Benzene	0.005 U
127-18-4-----	Tetrachloroethene	0.005 U
108-90-7-----	Chlorobenzene	0.005 U

## WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITAS-KNOXVILLE Contract: 15226Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	EQUIPMENTRIN	97	93	95	0	0
02	TRIPBLANK	99	96	97	0	0
03	VBLK1W	100	97	97	0	0

## QC LIMITS

SMC1 (TOL) = Toluene-d8 ( 88-110)  
 SMC2 (BFB) = Bromofluorobenzene ( 86-115)  
 SMC3 (DCE) = 1,2-Dichloroethane-d4( 76-114)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B  
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITAS-KNOXVILLE Contract: 15226  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	CLJCSS014D	104	93	103	0	0
02	CLJCSS015D	107	89	93	0	0
03	CLJCSS01D	108	88	103	0	0
04	VBLK1P	98	99	100	0	0

QC LIMITS

SMC1 (TOL) = Toluene-d8 ( 84-138)  
 SMC2 (BFB) = Bromofluorobenzene ( 59-113)  
 SMC3 (DCE) = 1,2-Dichloroethane-d4 ( 70-121)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out



4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1P

Lab Name: ITAS-KNOXVILLE Contract: 15226

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Lab File ID: ABH03 Lab Sample ID: PB0208

Date Analyzed: 02/08/94 Time Analyzed: 1039

GC Column: DB-624 ID: 0.250(mm) Heated Purge: (Y/N) Y

Instrument ID: 5970A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	CLJCSS014D	AA0073	ABH06	1232
02	CLJCSS015D	AA0075	ABH05	1204
03	CLJCSS01D	AA0071	ABH04	1136

COMMENTS:

4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1W

Name: ITAS-KNOXVILLE Contract: 15226  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Lab File ID: WB0208 Lab Sample ID: WB0208  
 Date Analyzed: 02/08/94 Time Analyzed: 1107  
 GC Column: DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N  
 Instrument ID: I500A

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	EQUIPMENTRIN	AA0077	AA0077	1234
02	TRIPBLANK	AA0078	AA0078	1158

COMMENTS: CLP, , , VBLK1W, LOW, WATER, WB0208, VOA, BLANK,  
 DB-624/0.53, WS0208, WFB0208, , , , UNDILUTED, I500A,

4A  
VOLATILE METHOD BLANK SUMMARY

Name: ITAS-KNOXVILLE Contract: 15226  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Lab File ID: WB0210 Lab Sample ID: WB0210  
 Date Analyzed: 02/10/94 Time Analyzed: 1024  
 Matrix: (soil/water) WATER Level: (low/med) LOW  
 Instrument ID: I500A

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

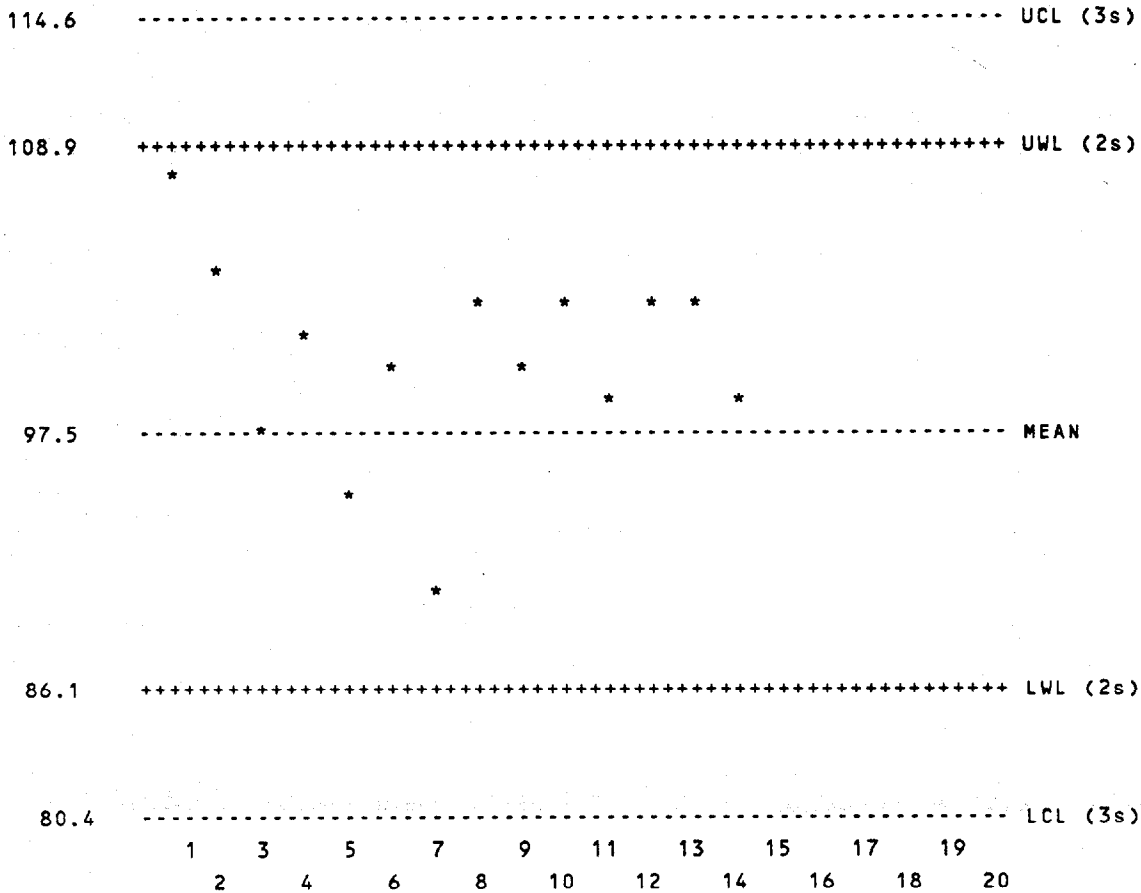
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	CLJCSS014DT	AA0073	AA0073T	1515
02	CLJCSS015DT	AA0075	AA0075T	1547
03	CLJCSS01DT	AA0071	AA0071T	1441
04	TCLPBLANK	E2345	E2345	1404
05	VLCS1W	WLCS0210	LCS0210	1102

MENTS: CLP, , , VBLK W, LOW, WATER, WB0210, VOA, BLANK,  
 DB-624/0.53, WS0210, WBF0210, , , , UNDILUTED, I500A,

# CONTROL CHARTS

IT Analytical Services  
 Knoxville, TN  
 Group: GC/MS VOA  
 Date: 03-02-1994

Description: 1,2-dichloroethane-d4 soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	120	12/18/93	107.8	PB1218	
2	121	12/19/93	104.2	PB1219	
3	122	1/10/94	97.0	WB01102	
4	123	1/11/94	100.8	WB0111	
5	124	1/31/94	95.2	WB01312	
6	125	2/ 8/94	100.0	PB0208	
7	126	2/ 9/94	90.8	WB0209	
8	127	2/11/94	102.4	PB0211	
9	128	2/14/94	100.0	PB0214	
10	129	2/15/94	102.6	PB0215	
11	130	2/16/94	98.8	WB0216	
12	131	2/16/94	103.2	PB0216	
13	132	2/17/94	102.4	PB0217	
14	133	2/22/94	98.6	PB0222	

IT Analytical Services  
 Knoxville, TN  
 Group: GC/MS VOA  
 Date: 03-02-1994

Description: 1,2-dichloroethane-d4 water

114.4 ----- UCL (3s)

108.7 +----- UWL (2s)

\*

97.4 ----- MEAN

\*

\*

\*

\*

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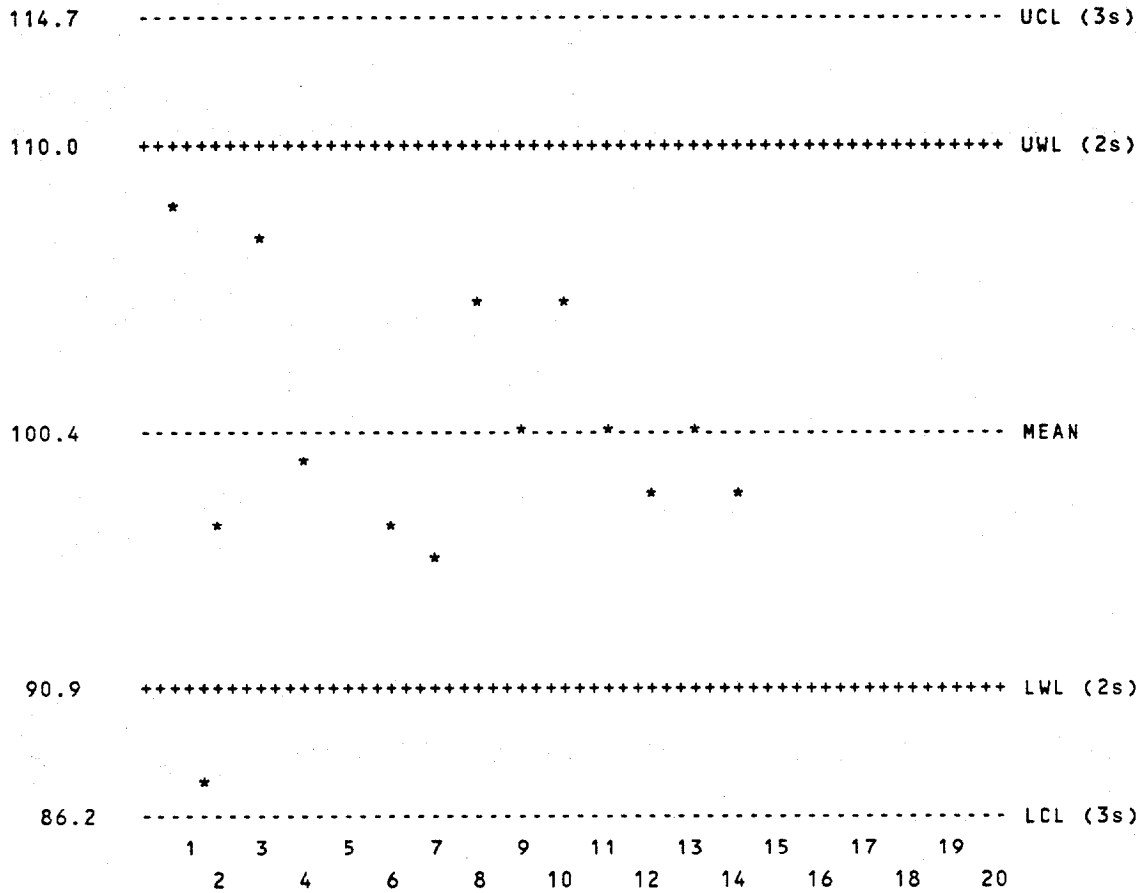
86.2 +----- LWL (2s)

80.5 ----- LCL (3s)

1 3 5 7 9 11 13 15 17 19  
 2 4 6 8 10 12 14 16 18 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	160	2/ 2/94	96.8	WB0202	
2	161	2/ 4/94	105.4	PB0204	
3	162	2/ 8/94	96.6	WB0208	
4	163	2/10/94	93.2	WB0210	
5	164	2/14/94	96.2	WB02142	
6	165	2/15/94	93.8	WB0215	

IT Analytical Services  
 Knoxville, TN  
 Group: GC/MS VOA      Description: toluene-d8 soil  
 Date: 03-02-1994



Pnt	Rec	Date	Value	Lab ID	Comment
1	120	12/18/93	108.0	PB1218	
2	121	12/19/93	97.6	PB1219	
3	122	1/10/94	107.2	WB01102	
4	123	1/11/94	99.4	WB0111	
5	124	1/31/94	88.4	WB01312	
6	125	2/ 8/94	97.8	PB0208	
7	126	2/ 9/94	95.8	WB0209	
8	127	2/11/94	105.0	PB0211	
9	128	2/14/94	100.4	PB0214	
10	129	2/15/94	104.6	PB0215	
11	130	2/16/94	100.4	WB0216	
12	131	2/16/94	98.6	PB0216	
13	132	2/17/94	100.4	PB0217	
14	133	2/22/94	98.0	PB0222	

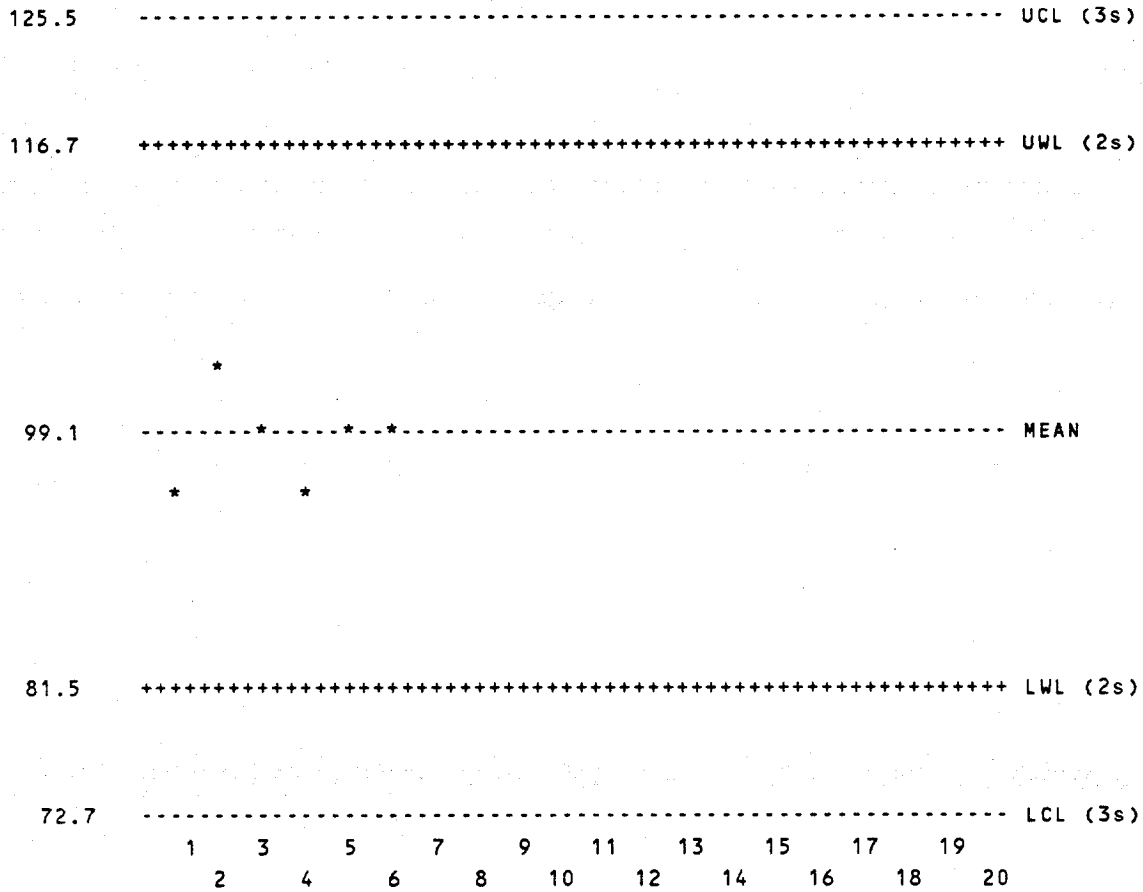
IT Analytical Services

Knoxville, TN

Group: GC/MS VOA

Description: toluene-d8 water

Date: 03-02-1994

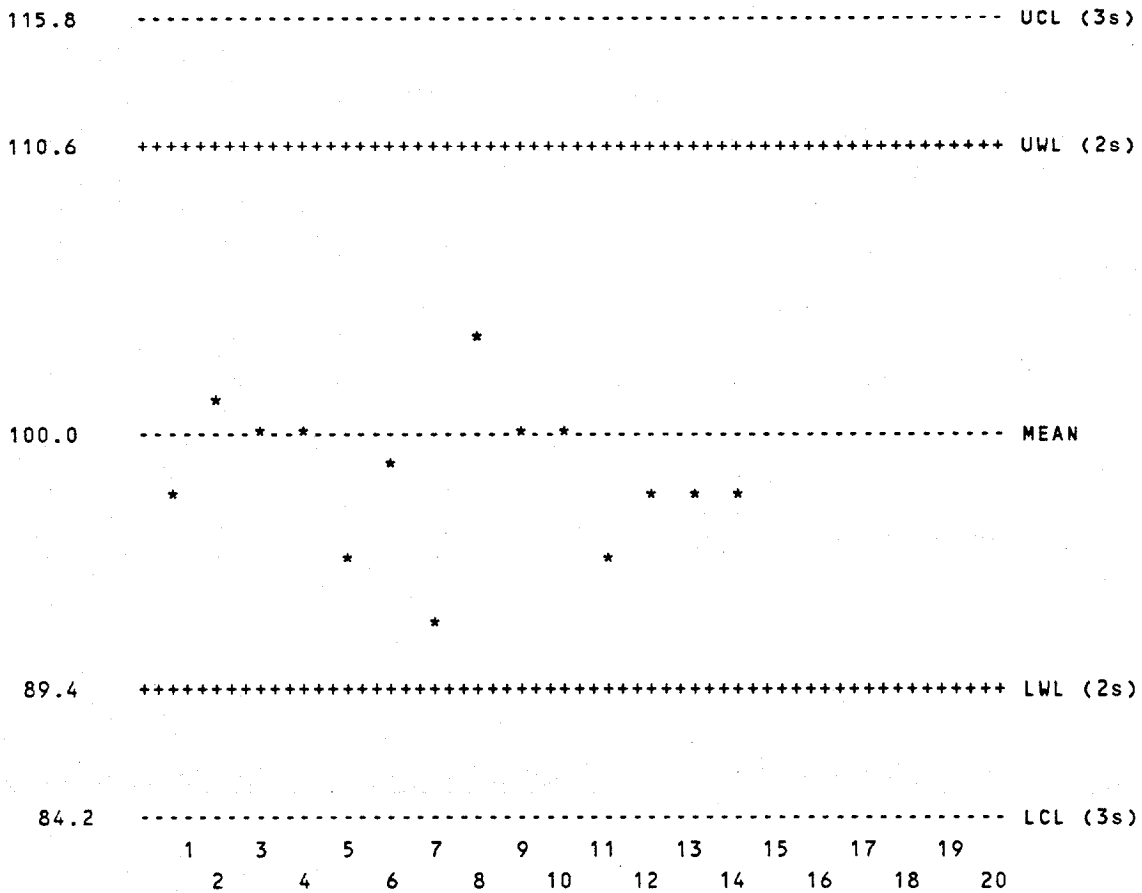


Pnt	Rec	Date	Value	Lab ID	Comment
1	160	2/ 2/94	94.6	WB0202	
2	161	2/ 4/94	102.8	PB0204	
3	162	2/ 8/94	99.8	WB0208	
4	163	2/10/94	94.8	WB0210	
5	164	2/14/94	98.4	WB02142	
6	165	2/15/94	99.4	WB0215	



IT Analytical Services  
 Knoxville, TN  
 Group: GC/MS VOA  
 Date: 03-02-1994

Description: bromofluorobenzene-d8 soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	120	12/18/93	98.0	PB1218	
2	121	12/19/93	101.0	PB1219	
3	122	1/10/94	100.4	WB01102	
4	123	1/11/94	99.8	WB0111	
5	124	1/31/94	95.8	WB01312	
6	125	2/ 8/94	98.8	PB0208	
7	126	2/ 9/94	93.0	WB0209	
8	127	2/11/94	103.0	PB0211	
9	128	2/14/94	100.0	PB0214	
10	129	2/15/94	100.0	PB0215	
11	130	2/16/94	95.4	WB0216	
12	131	2/16/94	97.2	PB0216	
13	132	2/17/94	98.0	PB0217	
14	133	2/22/94	98.2	PB0222	

IT Analytical Services

Knoxville, TN

Group: GC/MS VOA

Description: bromofluorobenzene-d8 water

Date: 03-02-1994

124.8 ----- UCL (3s)

115.9 \*\*\*\*\* UWL (2s)

98.1 ----- MEAN

80.3 \*\*\*\*\* LWL (2s)

71.4 ----- LCL (3s)

1 3 5 7 9 11 13 15 17 19  
2 4 6 8 10 12 14 16 18 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	160	2/ 2/94	93.2	WB0202	
2	161	2/ 4/94	100.2	PB0204	
3	162	2/ 8/94	97.2	WB0208	
4	163	2/10/94	91.6	WB0210	
5	164	2/14/94	98.0	WB02142	
6	165	2/15/94	97.6	WB0215	

# SEMI-VOLATILE ORGANICS

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS01D

Lab Name: ITAS-KNOXVILLE Contract: 15526

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: AA0072

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA0072

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: 11 decanted: (Y/N) N Date Extracted: 02/11/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl) Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	370	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS01D

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0072  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA0072  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: 11 decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 2.0(uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 5.0

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

CAS NO.

COMPOUND

51-28-5-----2,4-Dinitrophenol_____	900	U
100-02-7-----4-Nitrophenol_____	900	U
132-64-9-----Dibenzofuran_____	370	U
121-14-2-----2,4-Dinitrotoluene_____	370	U
84-66-2-----Diethylphthalate_____	370	U
7005-72-3-----4-Chlorophenyl-phenylether_____	370	U
86-73-7-----Fluorene_____	370	U
100-01-6-----4-Nitroaniline_____	900	U
534-52-1-----4,6-Dinitro-2-Methylphenol_____	900	U
86-30-6-----N-Nitrosodiphenylamine (1)_____	370	U
101-55-3-----4-Bromophenyl-phenylether_____	370	U
118-74-1-----Hexachlorobenzene_____	370	U
87-86-5-----Pentachlorophenol_____	900	U
85-01-8-----Phenanthrene_____	370	U
120-12-7-----Anthracene_____	370	U
86-74-8-----Carbazole_____	370	U
84-74-2-----Di-n-Butylphthalate_____	370	U
206-44-0-----Fluoranthene_____	370	U
129-00-0-----Pyrene_____	370	U
85-68-7-----Butylbenzylphthalate_____	370	U
91-94-1-----3,3'-Dichlorobenzidine_____	370	U
56-55-3-----Benzo(a)Anthracene_____	370	U
218-01-9-----Chrysene_____	370	U
117-81-7-----bis(2-Ethylhexyl) Phthalate_____	42	J
117-84-0-----Di-n-Octyl Phthalate_____	370	U
205-99-2-----Benzo(b) Fluoranthene_____	370	U
207-08-9-----Benzo(k) Fluoranthene_____	370	U
50-32-8-----Benzo(a) Pyrene_____	370	U
193-39-5-----Indeno(1,2,3-cd) Pyrene_____	370	U
53-70-3-----Dibenz(a,h)Anthracene_____	370	U
191-24-2-----Benzo(g,h,i) Perylene_____	370	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJCSS01D

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0072  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA0072  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: 11 decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 5.0

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

Number TICs found: 24

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	5.33	5900	JNA
2.	UNKNOWN	6.23	600	ABJ
3.	BENZENAMINE, TRICHLORO-	11.97	350	JY
4.	UNKNOWN	12.13	310	J
5. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	13.47	240	JNB
6.	UNKNOWN PHTHALATE	15.65	270	BJ
7.	UNKNOWN	16.18	320	J
8.	UNKNOWN	16.43	340	J
9.	UNKNOWN	17.12	820	J
10.	UNKNOWN	17.77	1100	J
11.	UNKNOWN	18.40	1300	J
12.	DDT ISOMER	18.75	200	JY
13.	UNKNOWN	19.02	1200	J
14. 50-29-3	P,P'-DDT	19.20	780	JN
15.	UNKNOWN	19.60	910	J
16.	UNKNOWN	19.70	180	J
17.	UNKNOWN	20.18	630	J
18.	UNKNOWN	20.75	430	J
19.	UNKNOWN	21.32	250	J
20.	UNKNOWN	21.93	300	J
21.	UNKNOWN	23.68	400	J
22.	UNKNOWN	24.03	210	J
23.	UNKNOWN	26.02	920	J
24.	UNKNOWN	27.05	260	J

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS014D

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0074  
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: AA0074  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: 9 decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl) Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy) Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	870	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	870	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	870	U
83-32-9	Acenaphthene	360	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS014D

Lab Name: ITAS-KNOXVILLE Contract: 15526

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: AA0074

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AA0074

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: 9 decanted: (Y/N) N Date Extracted: 02/11/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

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

CAS NO. COMPOUND Q

51-28-5-----	2,4-Dinitrophenol	870	U
100-02-7-----	4-Nitrophenol	870	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	870	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	870	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	870	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
86-74-8-----	Carbazole	360	U
84-74-2-----	Di-n-Butylphthalate	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo(a)Anthracene	360	U
218-01-9-----	Chrysene	360	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	320	J
117-84-0-----	Di-n-Octyl Phthalate	360	U
205-99-2-----	Benzo(b) Fluoranthene	360	U
207-08-9-----	Benzo(k) Fluoranthene	360	U
50-32-8-----	Benzo(a) Pyrene	360	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	360	U
53-70-3-----	Dibenz(a,h) Anthracene	360	U
191-24-2-----	Benzo(g,h,i) Perylene	360	U

(1) - Cannot be separated from Diphenylamine



1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJCSS014D

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0074  
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: AA0074  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: 9 decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 5.0

Number TICs found: 19 CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	5.35	6000	JNA
2.	UNKNOWN	5.47	85	AJ
3.	UNKNOWN	6.23	660	ABJ
4.	UNKNOWN	6.48	120	J
5. 3240-09-3	5-HEXEN-2-ONE, 5-METHYL-	6.65	96	JNA
6.	UNKNOWN	6.90	81	AJ
7. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	13.47	120	JNB
8.	UNKNOWN PHTHALATE	15.65	200	BJ
9.	UNKNOWN	19.07	130	J
10.	UNKNOWN	19.25	100	J
11.	UNKNOWN	19.70	200	J
12.	UNKNOWN	20.97	92	J
13.	UNKNOWN	21.60	95	J
14.	UNKNOWN	21.93	75	J
15.	UNKNOWN	23.70	200	J
16.	UNKNOWN	25.27	170	J
17.	UNKNOWN	26.02	390	J
18.	UNKNOWN	26.63	260	J
19.	UNKNOWN	27.05	93	J

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS015D

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0076  
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: AA0076  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: 10 decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/17/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 4.9

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl) Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	370	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS015D

Lab Name: ITAS-KNOXVILLE Contract: 15526

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: AA0076

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AA0076

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: 10 decanted: (Y/N) N Date Extracted: 02/11/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/17/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 4.9

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
51-28-5-----	2,4-Dinitrophenol	890	U
100-02-7-----	4-Nitrophenol	890	U
132-64-9-----	Dibenzofuran	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3-----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	370	U
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenyl-phenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	370	U
120-12-7-----	Anthracene	370	U
86-74-8-----	Carbazole	370	U
84-74-2-----	Di-n-Butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Butylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	370	U
56-55-3-----	Benzo(a)Anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	170	J
117-84-0-----	Di-n-Octyl Phthalate	370	U
205-99-2-----	Benzo(b)Fluoranthene	370	U
207-08-9-----	Benzo(k)Fluoranthene	370	U
50-32-8-----	Benzo(a)Pyrene	370	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3-----	Dibenz(a,h)Anthracene	370	U
191-24-2-----	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CLJCSS015D

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0076  
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: AA0076  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: 10 decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/17/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: 4.9

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

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.45	82	AJ
2.	UNKNOWN	6.22	480	ABJ
3. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	13.47	97	JNB
4.	UNKNOWN PHTHALATE	15.65	220	BJ
5.	UNKNOWN	19.72	130	J
6.	UNKNOWN	20.97	100	J
7.	UNKNOWN	21.77	86	J
8.	UNKNOWN	26.02	570	J
9.	UNKNOWN	26.22	110	J
10.	UNKNOWN	26.62	180	J

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1A

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0650  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA0650  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: \_\_\_\_\_

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl) Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1A

Lab Name: ITAS-KNOXVILLE Contract: 15526

Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Matrix: (soil/water) SOIL Lab Sample ID: AA0650

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA0650

Level: (low/med) LOW Date Received: 02/05/94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 02/11/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: \_\_\_\_\_

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

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	800	U
100-02-7-----	4-Nitrophenol	800	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	800	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	800	U
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-Butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	330	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0-----	Di-n-Octyl Phthalate	330	U
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1A

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0650  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: AA0650  
 Level: (low/med) LOW Date Received: 02/05/94  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 02/11/94  
 Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) Y pH: \_\_\_\_\_

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

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.23	440	AJ
2. 74381-40-1	PROPANOIC ACID, 2-METHYL-, 1	13.47	130	JN
3.	UNKNOWN PHTHALATE	15.65	230	J
4.	UNKNOWN	21.43	120	J

2D  
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ITAS-KNOXVILLE Contract: 15526

Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	CLJCSS014D	80	74	78	67	88	76	67	75	0
02	CLJCSS015D	69	66	67	58	72	66	59	67	0
03	CLJCSS01D	74	70	70	62	78	76	63	67	0
04	SBLK1A	60	61	63	52	62	59	55	62	0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 ( 23-120)  
 S2 (FBP) = 2-Fluorobiphenyl ( 30-115)  
 S3 (TPH) = Terphenyl-d14 ( 18-137)  
 S4 (PHL) = Phenol-d5 ( 24-113)  
 S5 (2FP) = 2-Fluorophenol ( 25-121)  
 S6 (TBP) = 2,4,6-Tribromophenol ( 19-122)  
 S7 (2CP) = 2-Chlorophenol-d4 ( 20-130) (advisory)  
 S8 (DCB) = 1,2-Dichlorobenzene-d4 ( 20-130) (advisory)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out



4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1A

Lab Name: ITAS-KNOXVILLE Contract: 15526  
 Lab Code: ITSTU Case No.: 4 SAS No.: \_\_\_\_\_ SDG No.: CLJCSS  
 Lab File ID: AA0650 Lab Sample ID: AA0650  
 Instrument ID: FINN Date Extracted: 02/11/94  
 Matrix: (soil/water) SOIL Date Analyzed: 02/16/94  
 Level: (low/med) LOW Time Analyzed: 1800

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

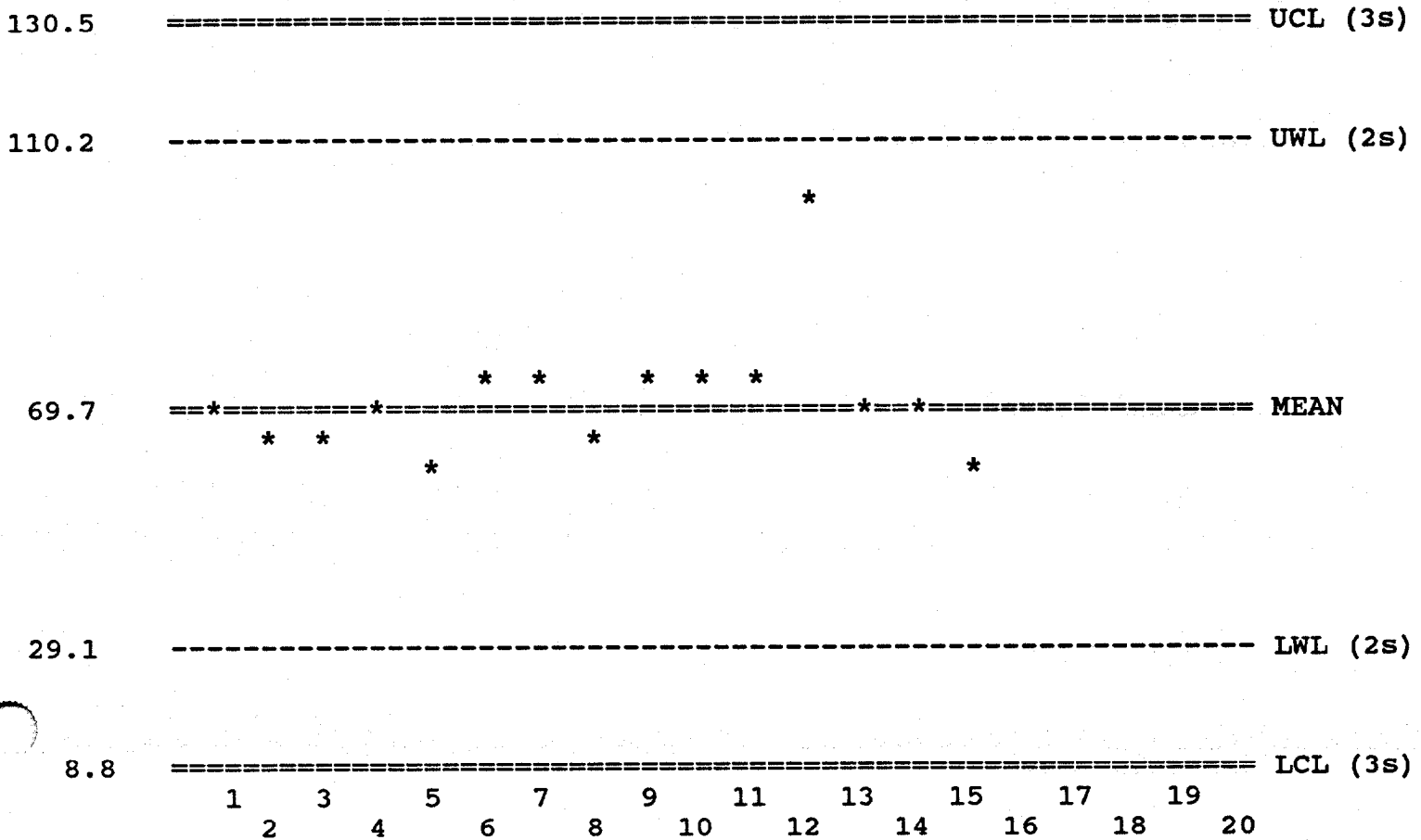
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CLJCSS014D	AA0074	AA0074	02/16/94
02	CLJCSS015D	AA0076	AA0076	02/17/94
03	CLJCSS01D	AA0072	AA0072	02/16/94

COMMENTS: CLP, 2, , SBLK1A, LOW, SOIL, AA0650, BNA, EPA,  
 FINN: XTI-5 30M 39TO325@15DEG/MIN

# CONTROL CHARTS

IT Analytical Services  
 Knoxville, TN  
 Group: GCMS DEPT  
 Date: 02-24-1994

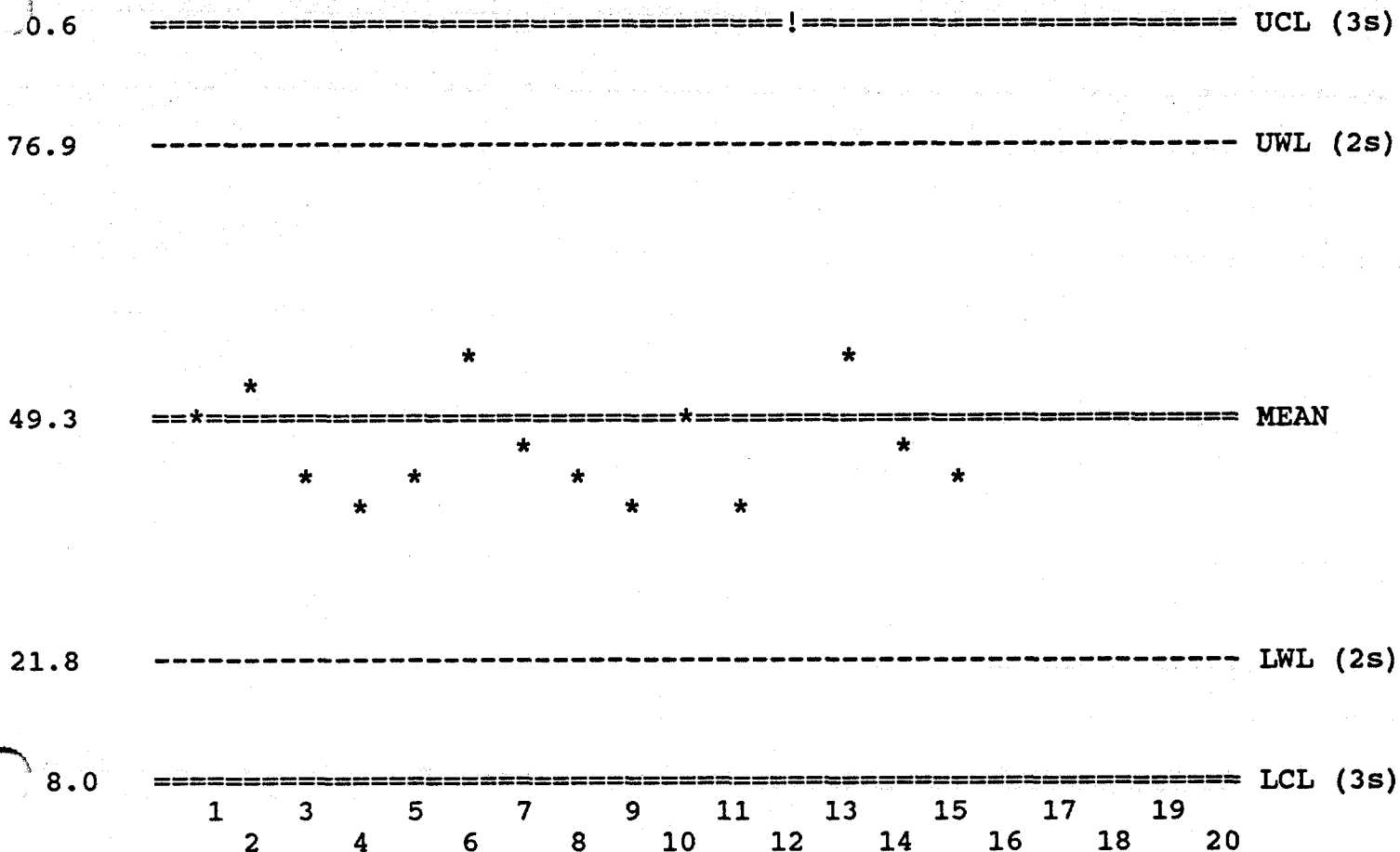
Description: nitrobenzene-d5 soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	121	1/ 3/94	68.0	M2129	
2	122	1/ 3/94	64.6	M2173	
3	123	1/ 3/94	66.8	M2147	
4	124	1/ 3/94	68.2	M2159	
5	125	1/ 3/94	59.4	M2108	
6	126	1/ 5/94	73.4	M2148	
7	127	1/ 5/94	73.8	M2158	
8	128	1/12/94	65.0	M2241	
9	129	1/24/94	73.8	M2280	
10	130	1/26/94	76.4	M2321	
11	131	2/ 3/94	73.2	M2375	
12	132	2/ 9/94	99.4	M2425	
13	133	2/10/94	68.4	M2419	
14	134	2/14/94	68.8	M2147	
15	135	2/16/94	59.8	AA0650	

IT Analytical Services  
 Knoxville, TN  
 Group: GCMS DEPT  
 Date: 02-24-1994

Description: 2,4,6-tribromophenol soil

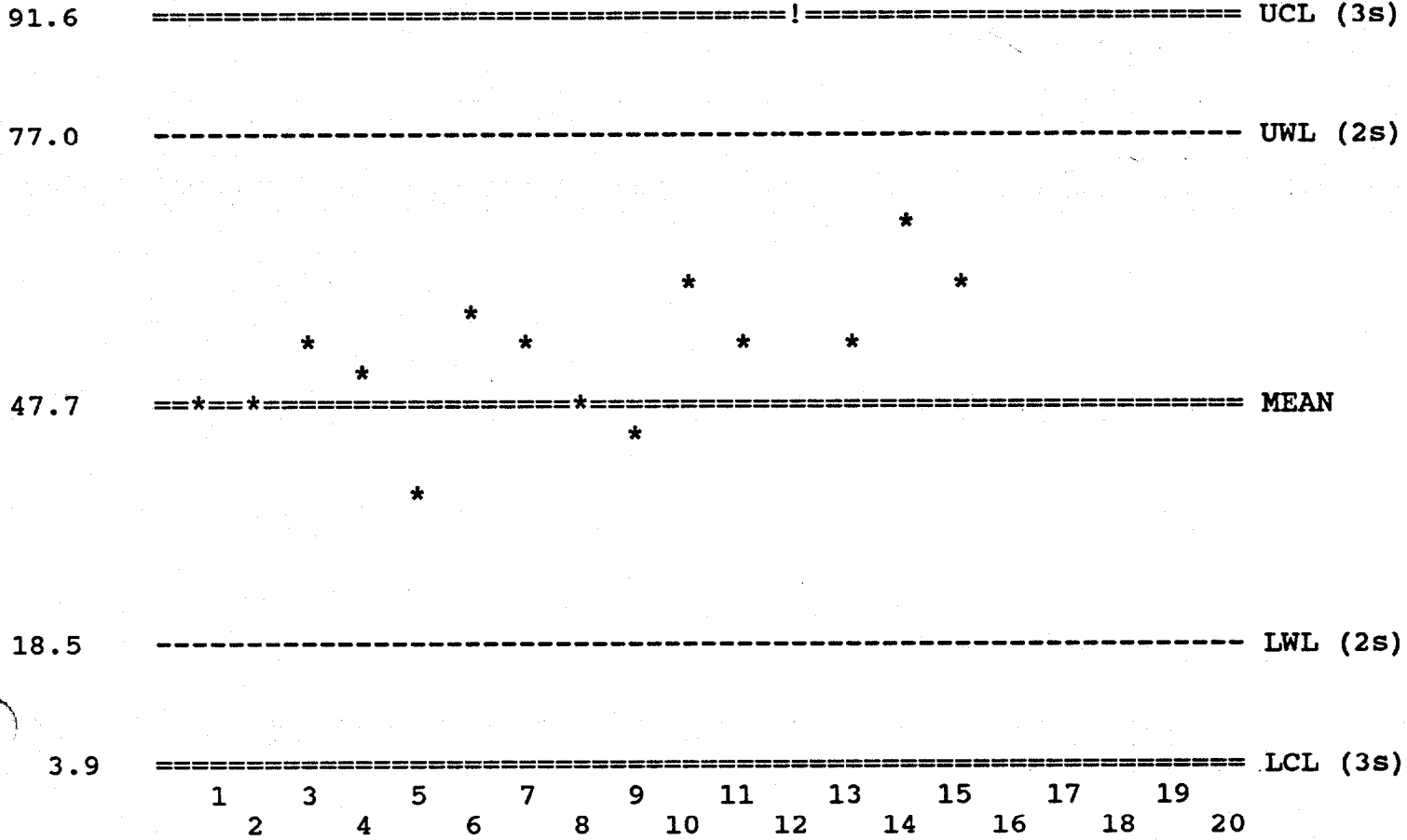


Pnt	Rec	Date	Value	Lab ID
1	121	1/ 3/94	49.3	M2129
2	122	1/ 3/94	53.4	M2173
3	123	1/ 3/94	43.4	M2147
4	124	1/ 3/94	40.4	M2159
5	125	1/ 3/94	43.4	M2108
6	126	1/ 5/94	56.4	M2148
7	127	1/ 5/94	46.8	M2158
8	128	1/12/94	42.8	M2241
9	129	1/24/94	39.9	M2280
10	130	1/26/94	49.4	M2321
11	131	2/ 3/94	41.2	M2375
12	132	2/ 9/94	114.0	M2425
13	133	2/10/94	55.6	M2419
14	134	2/14/94	45.1	M2147
15	135	2/16/94	44.3	AA0650

Comment

IT Analytical Services  
 Knoxville, TN  
 Group: GCMS DEPT  
 Date: 02-24-1994

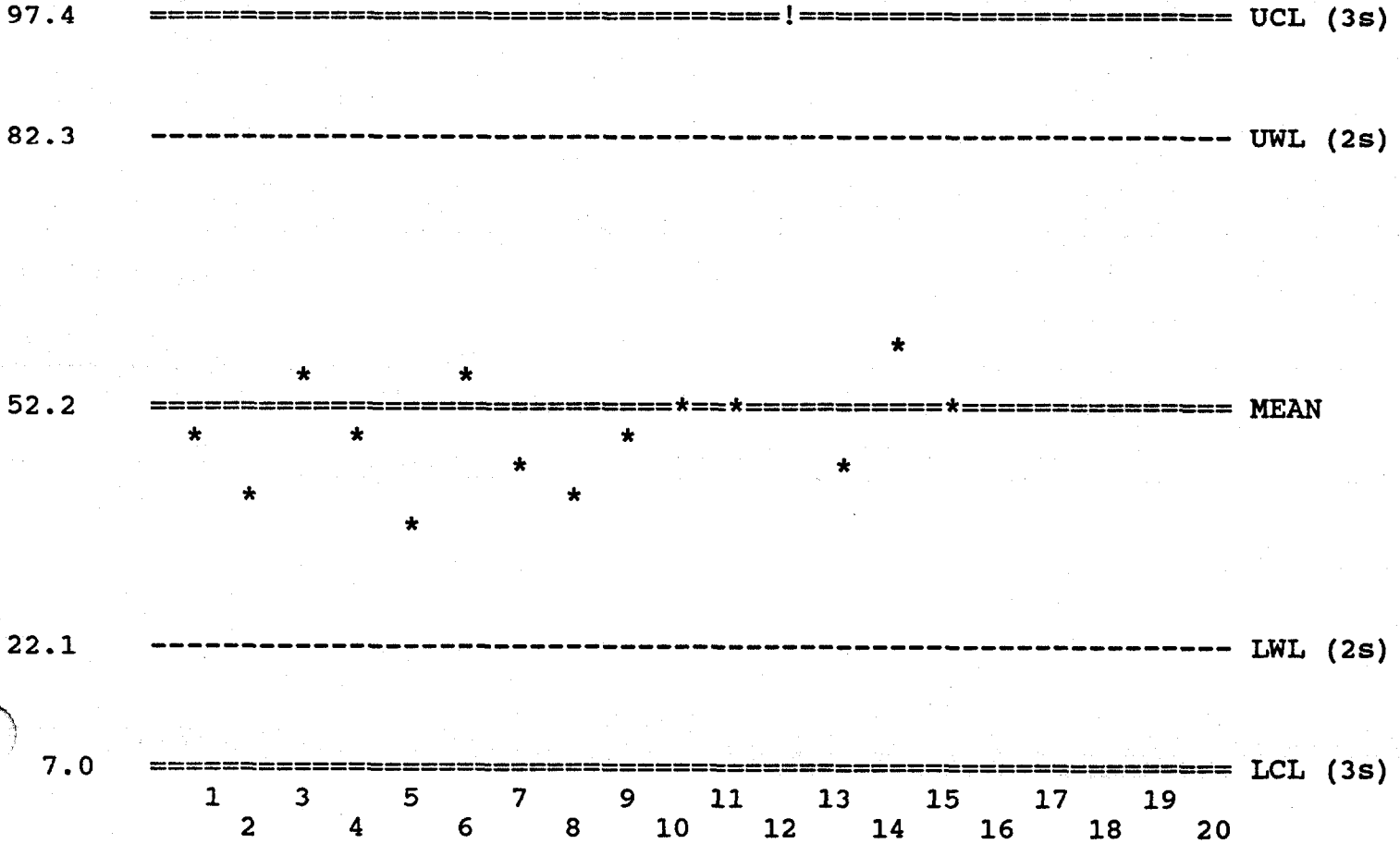
Description: 2-fluorophenol soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	121	1/ 3/94	48.0	M2129	
2	122	1/ 3/94	46.6	M2173	
3	123	1/ 3/94	54.1	M2147	
4	124	1/ 3/94	52.5	M2159	
5	125	1/ 3/94	39.0	M2108	
6	126	1/ 5/94	58.5	M2148	
7	127	1/ 5/94	54.8	M2158	
8	128	1/12/94	46.5	M2241	
9	129	1/24/94	45.0	M2280	
10	130	1/26/94	62.3	M2321	
11	131	2/ 3/94	52.8	M2375	
12	132	2/ 9/94	93.3	M2425	
13	133	2/10/94	54.2	M2419	
14	134	2/14/94	67.8	M2147	
15	135	2/16/94	62.2	AA0650	

IT Analytical Services  
 Knoxville, TN  
 Group: GCMS DEPT  
 Date: 02-24-1994

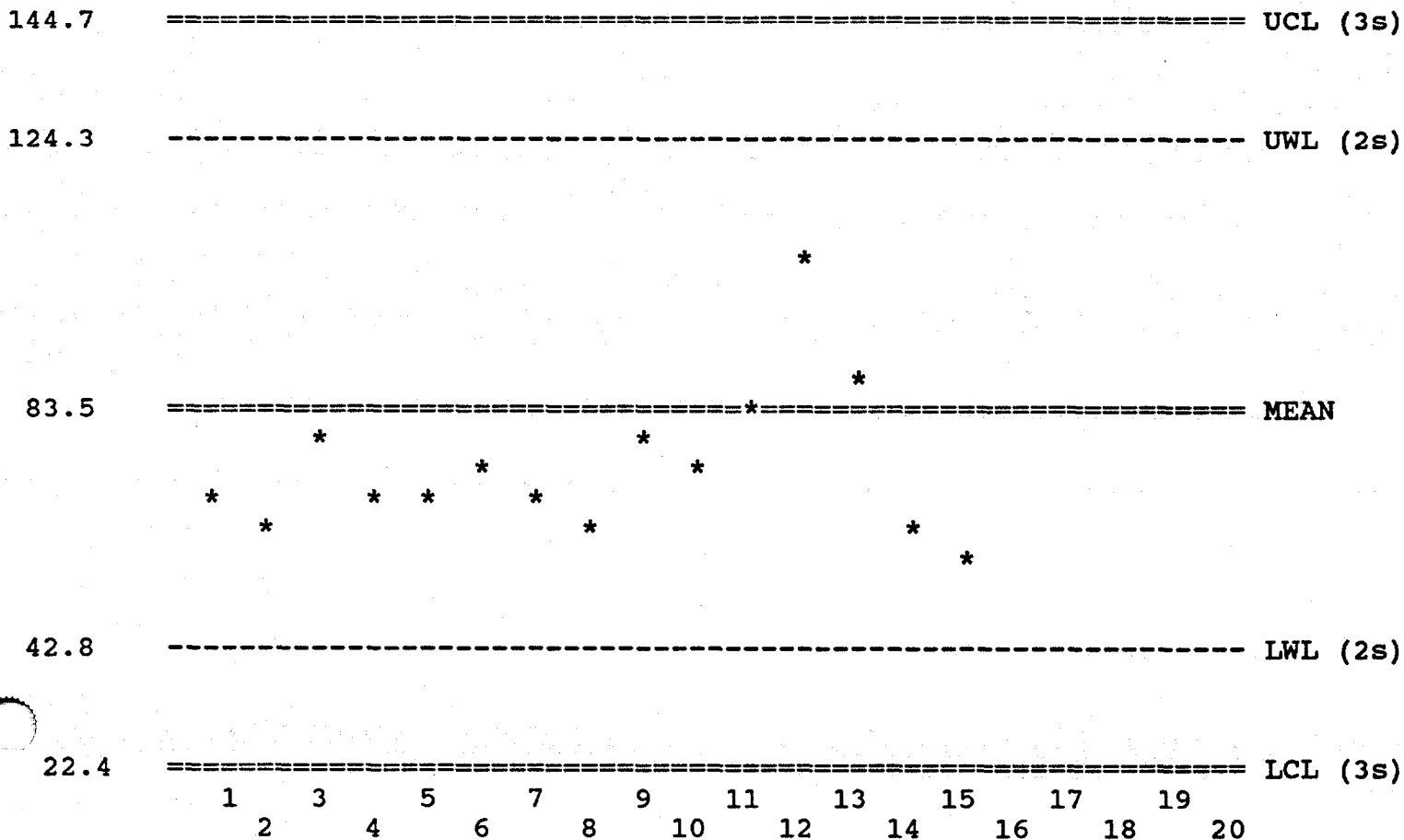
Description: phenol-d5 soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	121	1/ 3/94	47.3	M2129	
2	122	1/ 3/94	41.5	M2173	
3	123	1/ 3/94	55.4	M2147	
4	124	1/ 3/94	47.6	M2159	
5	125	1/ 3/94	40.2	M2108	
6	126	1/ 5/94	55.3	M2148	
7	127	1/ 5/94	47.1	M2158	
8	128	1/12/94	42.4	M2241	
9	129	1/24/94	48.3	M2280	
10	130	1/26/94	51.1	M2321	
11	131	2/ 3/94	50.8	M2375	
12	132	2/ 9/94	98.5	M2425	
13	133	2/10/94	46.5	M2419	
14	134	2/14/94	60.2	M2147	
15	135	2/16/94	51.7	AA0650	

IT Analytical Services  
 Knoxville, TN  
 Group: GCMS DEPT  
 Date: 02-24-1994

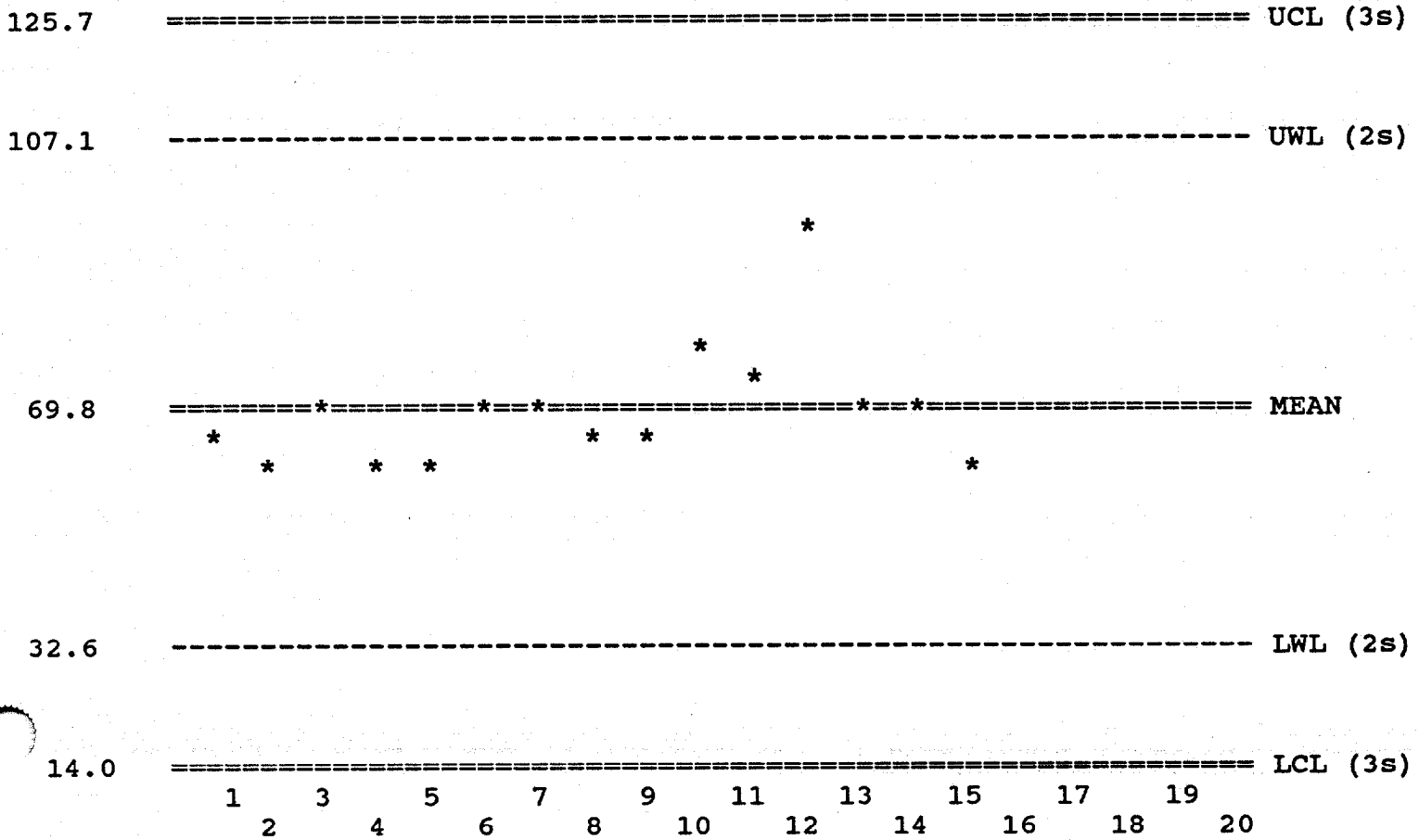
Description: terphenyl-d14 soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	121	1/ 3/94	69.4	M2129	
2	122	1/ 3/94	65.2	M2173	
3	123	1/ 3/94	78.6	M2147	
4	124	1/ 3/94	72.0	M2159	
5	125	1/ 3/94	71.0	M2108	
6	126	1/ 5/94	75.2	M2148	
7	127	1/ 5/94	70.0	M2158	
8	128	1/12/94	65.8	M2241	
9	129	1/24/94	77.2	M2280	
10	130	1/26/94	76.4	M2321	
11	131	2/ 3/94	83.2	M2375	
12	132	2/ 9/94	107.0	M2425	
13	133	2/10/94	86.4	M2419	
14	134	2/14/94	64.4	M2147	
15	135	2/16/94	62.8	AA0650	

IT Analytical Services  
 Knoxville, TN  
 Group: GCMS DEPT  
 Date: 02-24-1994

Description: 2-fluorobiphenyl soil



Pnt	Rec	Date	Value	Lab ID	Comment
1	121	1/ 3/94	65.8	M2129	
2	122	1/ 3/94	62.4	M2173	
3	123	1/ 3/94	67.8	M2147	
4	124	1/ 3/94	63.6	M2159	
5	125	1/ 3/94	60.0	M2108	
6	126	1/ 5/94	69.4	M2148	
7	127	1/ 5/94	68.4	M2158	
8	128	1/12/94	65.4	M2241	
9	129	1/24/94	67.4	M2280	
10	130	1/26/94	76.2	M2321	
11	131	2/ 3/94	74.2	M2375	
12	132	2/ 9/94	95.0	M2425	
13	133	2/10/94	70.4	M2419	
14	134	2/14/94	69.6	M2147	
15	135	2/16/94	61.2	AA0650	



**PESTICIDE/PCBS**

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS01D

b Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: WO 4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D

Matrix: (soil/water) SOIL Lab Sample ID: AA0072-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_

% Moisture: 11 decanted: (Y/N) N Date Received: 02/05/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 02/16/94

Injection Volume: 1.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----alpha-BHC	3.8	U
319-85-7-----beta-BHC	3.8	U
319-86-8-----delta-BHC	3.8	U
58-89-9-----gamma-BHC (Lindane)	3.8	U
76-44-8-----Heptachlor	3.8	U
309-00-2-----Aldrin	3.8	U
1024-57-3-----Heptachlor epoxide	3.8	U
959-98-8-----Endosulfan I	3.8	U
60-57-1-----Dieldrin	18	
72-55-9-----4,4'-DDE	13	
72-20-8-----Endrin	7.4	U
33213-65-9-----Endosulfan II	7.4	U
72-54-8-----4,4'-DDD	43	P
1031-07-8-----Endosulfan sulfate	7.4	U
50-29-3-----4,4'-DDT	820	PZ
72-43-5-----Methoxychlor	38	U
53494-70-5-----Endrin ketone	7.4	U
7421-93-4-----Endrin aldehyde	7.4	U
5103-71-9-----alpha-Chlordane	3.8	U
5103-74-2-----gamma-Chlordane	3.8	U
8001-35-2-----Toxaphene	380	U
12674-11-2-----Aroclor-1016	74	U
11104-28-2-----Aroclor-1221	150	U
11141-16-5-----Aroclor-1232	74	U
53469-21-9-----Aroclor-1242	74	U
12672-29-6-----Aroclor-1248	74	U
11097-69-1-----Aroclor-1254	74	U
11096-82-5-----Aroclor-1260	74	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS01DDL

Lab Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: WO 4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0072-20  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_  
 % Moisture: 11 decanted: (Y/N) N Date Received: 02/05/94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 1.00 (uL) Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----alpha-BHC	38	U
319-85-7-----beta-BHC	38	U
319-86-8-----delta-BHC	38	U
58-89-9-----gamma-BHC (Lindane)	38	U
76-44-8-----Heptachlor	38	U
309-00-2-----Aldrin	38	U
1024-57-3-----Heptachlor epoxide	38	U
959-98-8-----Endosulfan I	38	U
60-57-1-----Dieldrin	14	DJP
72-55-9-----4,4'-DDE	8.9	DJP
72-20-8-----Endrin	74	U
33213-65-9-----Endosulfan II	74	U
72-54-8-----4,4'-DDD	51	DJP
1031-07-8-----Endosulfan sulfate	74	U
50-29-3-----4,4'-DDT	1100	D
72-43-5-----Methoxychlor	380	U
53494-70-5-----Endrin ketone	74	U
7421-93-4-----Endrin aldehyde	74	U
5103-71-9-----alpha-Chlordane	38	U
5103-74-2-----gamma-Chlordane	38	U
8001-35-2-----Toxaphene	3800	U
12674-11-2-----Aroclor-1016	740	U
11104-28-2-----Aroclor-1221	1500	U
11141-16-5-----Aroclor-1232	740	U
53469-21-9-----Aroclor-1242	740	U
12672-29-6-----Aroclor-1248	740	U
11097-69-1-----Aroclor-1254	740	U
11096-82-5-----Aroclor-1260	740	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS014D

b Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: WO\_4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0074  
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: \_\_\_\_\_  
 % Moisture: 9 decanted: (Y/N) N Date Received: 02/05/94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 02/15/94  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.6	U
72-55-9-----	4,4'-DDE	3.6	U
72-20-8-----	Endrin	3.6	U
33213-65-9-----	Endosulfan II	3.6	U
72-54-8-----	4,4'-DDD	3.6	U
1031-07-8-----	Endosulfan sulfate	3.6	U
50-29-3-----	4,4'-DDT	3.6	U
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.6	U
7421-93-4-----	Endrin aldehyde	3.6	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	36	U
11104-28-2-----	Aroclor-1221	73	U
11141-16-5-----	Aroclor-1232	36	U
53469-21-9-----	Aroclor-1242	36	U
12672-29-6-----	Aroclor-1248	36	U
11097-69-1-----	Aroclor-1254	36	U
11096-82-5-----	Aroclor-1260	36	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS015D

b Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: WO 4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0076  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_  
 % Moisture: 10 decanted: (Y/N) N Date Received: 02/05/94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 02/15/94  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) Y pH: 4.9 Sulfur Cleanup: (Y/N) Y

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	1.9	U
319-85-7-----	beta-BHC	1.9	U
319-86-8-----	delta-BHC	1.9	U
58-89-9-----	gamma-BHC (Lindane)	1.9	U
76-44-8-----	Heptachlor	1.9	U
309-00-2-----	Aldrin	1.9	U
1024-57-3-----	Heptachlor epoxide	1.9	U
959-98-8-----	Endosulfan I	1.9	U
60-57-1-----	Dieldrin	3.7	U
72-55-9-----	4,4'-DDE	3.7	U
72-20-8-----	Endrin	3.7	U
33213-65-9-----	Endosulfan II	3.7	U
72-54-8-----	4,4'-DDD	3.7	U
1031-07-8-----	Endosulfan sulfate	3.7	U
50-29-3-----	4,4'-DDT	67	Z
72-43-5-----	Methoxychlor	19	U
53494-70-5-----	Endrin ketone	3.7	U
7421-93-4-----	Endrin aldehyde	3.7	U
5103-71-9-----	alpha-Chlordane	1.9	U
5103-74-2-----	gamma-Chlordane	1.9	U
8001-35-2-----	Toxaphene	190	U
12674-11-2-----	Aroclor-1016	37	U
11104-28-2-----	Aroclor-1221	74	U
11141-16-5-----	Aroclor-1232	37	U
53469-21-9-----	Aroclor-1242	37	U
12672-29-6-----	Aroclor-1248	37	U
11097-69-1-----	Aroclor-1254	37	U
11096-82-5-----	Aroclor-1260	37	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJCSS015DDL

Lab Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: WO\_4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0076-5  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_  
 % Moisture: 10 decanted: (Y/N) N Date Received: 02/05/94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 02/16/94  
 Injection Volume: 1.00 (uL) Dilution Factor: 5.00  
 GPC Cleanup: (Y/N) Y pH: 4.9 Sulfur Cleanup: (Y/N) Y

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

CAS NO. COMPOUND UG/KG Q

319-84-6-----alpha-BHC	9.4	U
319-85-7-----beta-BHC	9.4	U
319-86-8-----delta-BHC	9.4	U
58-89-9-----gamma-BHC (Lindane)	9.4	U
76-44-8-----Heptachlor	9.4	U
309-00-2-----Aldrin	9.4	U
1024-57-3-----Heptachlor epoxide	9.4	U
959-98-8-----Endosulfan I	9.4	U
60-57-1-----Dieldrin	18	U
72-55-9-----4,4'-DDE	18	U
72-20-8-----Endrin	18	U
33213-65-9-----Endosulfan II	18	U
72-54-8-----4,4'-DDD	18	U
1031-07-8-----Endosulfan sulfate	18	U
50-29-3-----4,4'-DDT	60	D
72-43-5-----Methoxychlor	94	U
53494-70-5-----Endrin ketone	18	U
7421-93-4-----Endrin aldehyde	18	U
5103-71-9-----alpha-Chlordane	9.4	U
5103-74-2-----gamma-Chlordane	9.4	U
8001-35-2-----Toxaphene	940	U
12674-11-2-----Aroclor-1016	180	U
11104-28-2-----Aroclor-1221	370	U
11141-16-5-----Aroclor-1232	180	U
53469-21-9-----Aroclor-1242	180	U
12672-29-6-----Aroclor-1248	180	U
11097-69-1-----Aroclor-1254	180	U
11096-82-5-----Aroclor-1260	180	U

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1

Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_  
 Lab Code: \_\_\_\_\_ Case No.: WO 4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D  
 Matrix: (soil/water) SOIL Lab Sample ID: AA0654B1  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: \_\_\_\_\_  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/11/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 02/15/94  
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

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

CAS NO.                      COMPOUND                      Q

319-84-6-----	alpha-BHC	1.7	U
319-85-7-----	beta-BHC	1.7	U
319-86-8-----	delta-BHC	1.7	U
58-89-9-----	gamma-BHC (Lindane)	1.7	U
76-44-8-----	Heptachlor	1.7	U
309-00-2-----	Aldrin	1.7	U
1024-57-3-----	Heptachlor epoxide	1.7	U
959-98-8-----	Endosulfan I	1.7	U
60-57-1-----	Dieldrin	3.3	U
72-55-9-----	4,4'-DDE	3.3	U
72-20-8-----	Endrin	3.3	U
33213-65-9-----	Endosulfan II	3.3	U
72-54-8-----	4,4'-DDD	3.3	U
1031-07-8-----	Endosulfan sulfate	3.3	U
50-29-3-----	4,4'-DDT	3.3	U
72-43-5-----	Methoxychlor	17	U
53494-70-5-----	Endrin ketone	3.3	U
7421-93-4-----	Endrin aldehyde	3.3	U
5103-71-9-----	alpha-Chlordane	1.7	U
5103-74-2-----	gamma-Chlordane	1.7	U
8001-35-2-----	Toxaphene	170	U
12674-11-2-----	Aroclor-1016	33	U
11104-28-2-----	Aroclor-1221	67	U
11141-16-5-----	Aroclor-1232	33	U
53469-21-9-----	Aroclor-1242	33	U
12672-29-6-----	Aroclor-1248	33	U
11097-69-1-----	Aroclor-1254	33	U
11096-82-5-----	Aroclor-1260	33	U

2F  
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: WO 4 SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

GC Column(1): DB-608 ID: 0.53(mm) GC Column(2): DB-1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK1	113	106	140	126	0*	0*	0
02	AA0656S1LCS	64	61	87	76	0*	0*	0
03	CLJCSS014D	127	127	168*	145	0*	0*	1
04	CLJCSS015D	112	110	146	121	0*	0*	0
05	CLJCSS015DDL	98	95	144	131	0*	0*	0
06	CLJCSS01D	88	88	137	114	0*	0*	0
07	CLJCSS01DDL	81	76	128	106	0D	0D	0

ADVISORY  
QC LIMITS  
( 60-150)  
( 60-150)  
( 20-150)

TCX = Tetrachloro-m-xylene  
DCB = Decachlorobiphenyl  
OTHER = Dibutylchlorendate

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate diluted out



4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Name: ITAS-KNOXVILLE Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: WO 4 SAS No.: \_\_\_\_\_ SDG No.: CSS01D

Lab Sample ID: AA0654B1 Lab File ID: \_\_\_\_\_

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) Y Date Extracted: 02/11/94

Date Analyzed (1): 02/15/94 Date Analyzed (2): 02/15/94

Time Analyzed (1): 1739 Time Analyzed (2): 1523

Instrument ID (1): 5890G Instrument ID (2): 5890H

GC Column (1): DB-608 ID: 0.53 (mm) GC Column (2): DB-1701 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	AA0656S1LCS	AA0656S1	02/15/94	02/15/94
02	CLJCSS014D	AA0074	02/15/94	02/15/94
03	CLJCSS015D	AA0076	02/15/94	02/15/94
04	CLJCSS015DDL	AA0076-5	02/16/94	02/16/94
05	CLJCSS01D	AA0072-2	02/16/94	02/16/94
06	CLJCSS01DDL	AA0072-20	02/16/94	02/16/94

COMMENTS:

# CONTROL CHARTS

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: GC CLP DEPT

Description: Dieldrin Soil

Date: 02-23-1994

150.3 ===== UCL (3s)

136.4 ----- UWL (2s)

108.4 ===== MEAN

\*

80.4 ----- LWL (2s)

66.4 ===== LCL (3s)

1 3 5 7 9 11 13 15 17 19  
2 4 6 8 10 12 14 16 18 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/11/94	91.2	AA0656S1	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: GC CLP DEPT

Description: 4,4'-DDT Soil

Date: 02-23-1994

150.9 ===== UCL (3s)

135.5 ----- UWL (2s)

104.8 ===== MEAN

\*

74.0 ----- LWL (2s)

58.6 ===== LCL (3s)

1 3 5 7 9 11 13 15 17 19  
2 4 6 8 10 12 14 16 18 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/11/94	87.3	AA0656S1	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: GC CLP DEPT

Description: AR 1242 Soil

Date: 02-23-1994

120.8 ===== UCL (3s)

109.4 ----- UWL (2s)

86.6 ===== MEAN  
\*

63.9 ----- LWL (2s)

52.5 ===== LCL (3s)  
1 3 5 7 9 11 13 15 17 19  
2 4 6 8 10 12 14 16 18 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/11/94	83.7	AA0656S1	

**METALS/CYANIDE**

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: ITAS\_KNOXVILLE Contract: CAMP\_LEJUE
Lab Code: ITSTU Case No.: 4 SAS No.: SDG No.:4
SOW No.: ILM02

Table with 2 columns: EPA Sample No. and Lab Sample ID. Rows include CSS-01D (AA0072), CSS-014D (AA0074), and CSS-015D (AA0076).

Were ICP interelement corrections applied ? Yes/No YES
ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

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

Signature: Soomi L. Chung Name: Soomi L. Chung
Date: 02/22/94 Title: Group Leader

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CSS-01D

Lab Name: ITAS KNOXVILLE

Contract: CAMP LEJUE

Lab Code: ITSTU

Case No.: 4

SAS No.:

SDG No.: 4

Matrix (soil/water): SOIL

Lab Sample ID: AA0072

Level (low/med): LOW

Date Received: 02/05/94

% Solids: 89.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2110	-		P
7440-36-0	Antimony	10.6	U		P
7440-38-2	Arsenic	0.42	U		F
7440-39-3	Barium	4.7	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	360	B		P
7440-47-3	Chromium	3.8			P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	381			P
7439-92-1	Lead	5.3			F
7439-95-4	Magnesium	60.9	B		P
7439-96-5	Manganese	4.4			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	4.2	U		P
7440-09-7	Potassium	242	B		P
7782-49-2	Selenium	0.42	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	34.7	B		P
7440-28-0	Thallium	0.42	U		F
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	8.8			P
5955-70-0	Cyanide	1.1	U		AS

Color Before: BROWN  
Color After: COLORLESS

Clarity Before: N/A  
Clarity After: CLEAR

Texture: MEDIUM  
Artifacts: \_\_\_\_\_

Comments:

8  
2/22/94



U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CSS-014D

Lab Name: ITAS KNOXVILLE

Contract: CAMP\_LEJUE

Lab Code: ITSTU

Case No.: 4

SAS No.:

SDG No.: 4

Matrix (soil/water): SOIL

Lab Sample ID: AA0074

Level (low/med): LOW

Date Received: 02/05/94

% Solids: 90.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3410	-		P
7440-36-0	Antimony	10.8	U		P
7440-38-2	Arsenic	0.41	U		F
7440-39-3	Barium	3.4	B		P
7440-41-7	Beryllium	0.22	U		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	105	B		P
7440-47-3	Chromium	4.3			P
7440-48-4	Cobalt	2.2	U		P
7440-50-8	Copper	2.2	U		P
7439-89-6	Iron	318			P
7439-92-1	Lead	3.4			F
7439-95-4	Magnesium	67.0	B		P
7439-96-5	Manganese	2.6	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	216	U		P
7782-49-2	Selenium	0.41	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	31.2	B		P
7440-28-0	Thallium	0.41	U		F
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	2.6	B		P
5955-70-0	Cyanide	1.1	U		AS

Color Before: BROWN/WHI  
Color After: COLORLESS

Clarity Before: N/A  
Clarity After: CLEAR

Texture: MEDIUM  
Artifacts:

Comments:

ILM02.1  
2/22/94

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CSS-015D

Lab Name: ITAS KNOXVILLE Contract: CAMP\_LEJUE  
 Lab Code: ITSTU Case No.: 4 SAS No.: SDG No.: 4  
 Matrix (soil/water): SOIL Lab Sample ID: AA0076  
 Level (low/med): LOW Date Received: 02/05/94  
 % Solids: 90.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3120	-		P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	0.44	U		P
7440-39-3	Barium	2.5	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	53.5	B		P
7440-47-3	Chromium	3.5			P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.1	U		P
7439-89-6	Iron	241			P
7439-92-1	Lead	4.2	-		F
7439-95-4	Magnesium	48.1	B		P
7439-96-5	Manganese	2.5	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	213	U		P
7782-49-2	Selenium	0.44	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	43.0	B		P
7440-28-0	Thallium	0.44	U		F
7440-62-2	Vanadium	2.5	B		P
7440-66-6	Zinc	3.0	B		P
5955-70-0	Cyanide	1.1	U		AS

Color Before: BROWN Clarity Before: N/A Texture: MEDIUM  
 Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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U.S. EPA - CLP

3  
BLANKS

Name: ITAS\_KNOXVILLE \_\_\_\_\_

Contract: CAMP\_LEJUE

Lab Code: ITSTU\_

Case No.: 4 \_\_\_\_\_

SAS No.: \_\_\_\_\_

SDG No.: 4 \_\_\_\_\_

Preparation Blank Matrix (soil/water): SOIL\_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank		M
			1	C	2	C	3	C	Blank	C	
Aluminum	40.0	U	40.0	U	40.0	U	40.0	U	8.000	U	P
Antimony	50.0	U	50.0	U	50.0	U	50.0	U	10.000	U	P
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Barium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Calcium	20.0	U	20.0	U	20.0	U	20.0	U	4.000	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Cobalt	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Copper	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Iron	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Magnesium	50.0	U	50.8	B	50.0	U	50.0	U	10.000	U	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.133	U	CV
Nickel	20.0	U	20.0	U	20.0	U	20.0	U	4.000	U	P
Potassium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	200.000	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Silver	5.0	U	5.0	U	5.9	B	5.0	U	1.000	U	P
Sodium	100.0	U	100.0	U	100.0	U	100.0	U	20.000	U	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Vanadium	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Cyanide	10.0	U	10.0	U					1.000	U	AS

8  
2/22/94

U.S. EPA - CLP

13  
PREPARATION LOG

Lab Name: ITAS\_KNOXVILLE

Contract: CAMP\_LEJUE

Lab Code: ITSTU Case No.: 4

SAS No.: SDG No.:4

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CSS-01P	02/16/94	1.06	200
CSS-014D	02/16/94	1.02	200
CSS-015D	02/16/94	1.04	200
LCSS	02/16/94	1.00	200
PBSS	02/16/94	1.00	200

U.S. EPA - CLP

13  
PREPARATION LOG

Lab Name: ITAS\_KNOXVILLE \_\_\_\_\_

Contract: CAMP\_LEJUE

Lab Code: ITSTU\_ Case No.: 4

SAS No.: \_\_\_\_\_ SDG No.: 4

Method: F\_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CSS-01D	02/09/94	1.06	200
CSS-014D	02/09/94	1.08	200
CSS-015D	02/09/94	1.01	200
LCSS	02/09/94	1.00	200
PBS	02/09/94	1.00	200

U.S. EPA - CLP

13  
PREPARATION LOG

Name: ITAS\_KNOXVILLE\_\_\_\_\_

Contract: CAMP\_LEJUE

Lab Code: ITSTU\_ Case No.:\_4\_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.:4\_\_\_\_\_

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CSS-01D	02/11/94	0.20	100
CSS-014D	02/11/94	0.23	100
CSS-015D	02/11/94	0.23	100
LCSS	02/11/94	0.15	100
PBS	02/11/94	0.15	100

FORM XIII - IN

ILM02.1

8  
2/22/94

U.S. EPA - CLP

13

PREPARATION LOG

Name: ITAS\_KNOXVILLE\_\_\_\_\_

Contract: CAMP\_LEJUE

Lab Code: ITSTU\_ Case No.: 4\_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.:4\_\_\_\_\_

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CSS-01D	02/17/94	5.07	500
CSS-014D	02/17/94	5.09	500
CSS-015D	02/17/94	5.03	500
LCSS	02/17/94	5.00	500
PBS	02/17/94	5.00	500

FORM XIII - IN

ILM02.1

8  
2/22/94

# CONTROL CHARTS



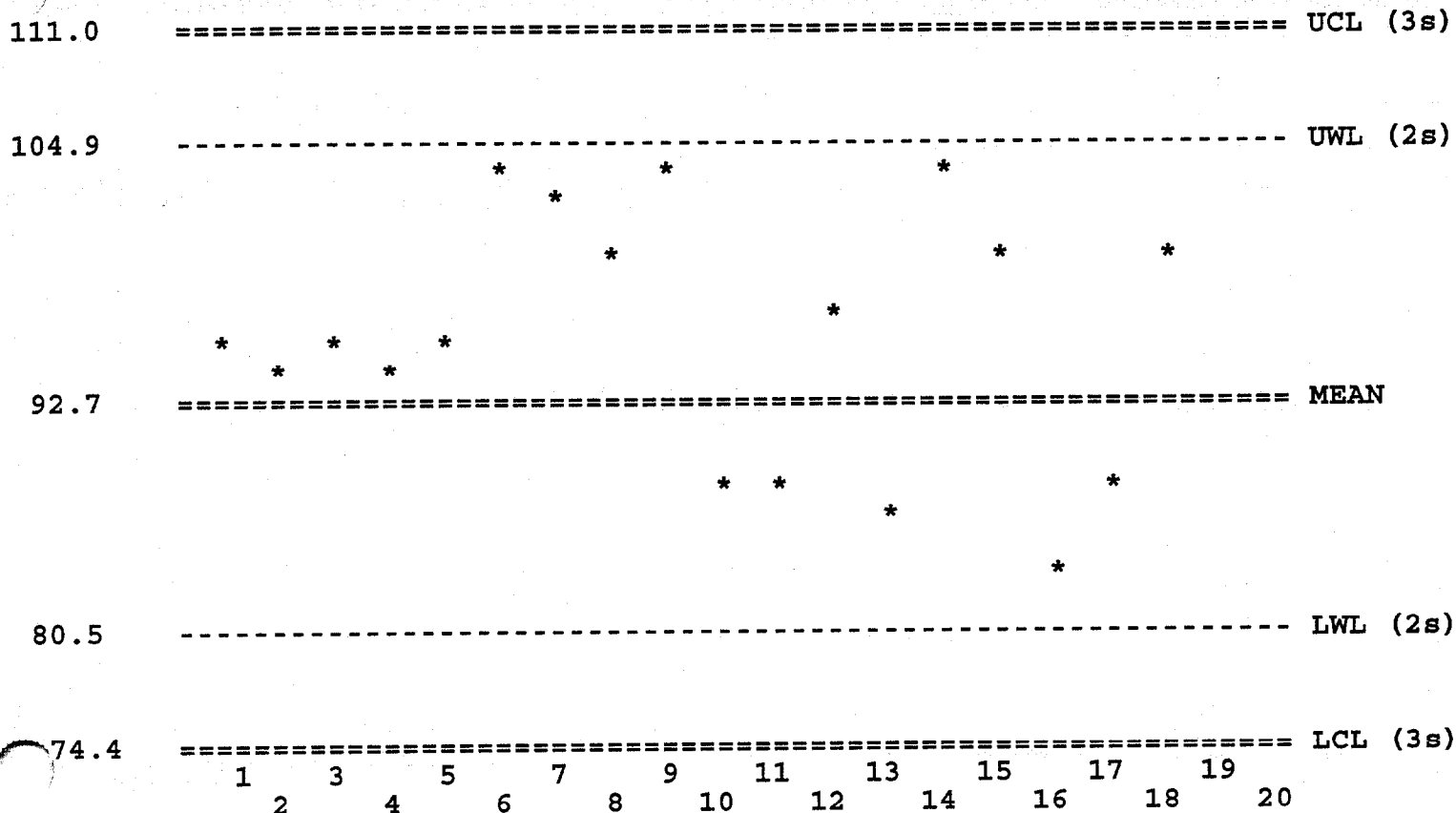
IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Arsenic Soil

Date: 02-26-1994



Pnt	Rec	Date	Value	Lab ID	Comment
1	61	1/24/94	95.0	ALCSS0110A	
2	62	1/24/94	94.0	ALCSS0106B	
3	63	1/24/94	95.0	ALCSS1215A	
4	64	1/24/94	94.0	ALCSS0124A	
5	65	1/25/94	95.0	ALCSS0124A	
6	66	1/25/94	104.0	ALCSS0110B	
7	67	1/25/94	102.0	ALCSS0125A	
8	68	2/ 3/94	100.0	ALCSS0203A	
9	69	2/ 8/94	103.0	ALCSS0208A	
10	70	2/ 9/94	89.0	ALCSS0209A	
11	71	2/10/94	89.0	ALCSS0209B	
12	72	2/10/94	97.0	ALCSS0210A	
13	73	2/11/94	87.0	ALCSS0211A	
14	74	2/16/94	104.0	ALCSS0215A	
15	75	2/22/94	100.0	ALCSS0218A	
16	76	2/23/94	85.0	ALCSS0222A	
17	77	2/23/94	88.0	ALCSS0223A	
18	78	2/25/94	99.0	ALCSS0224A	

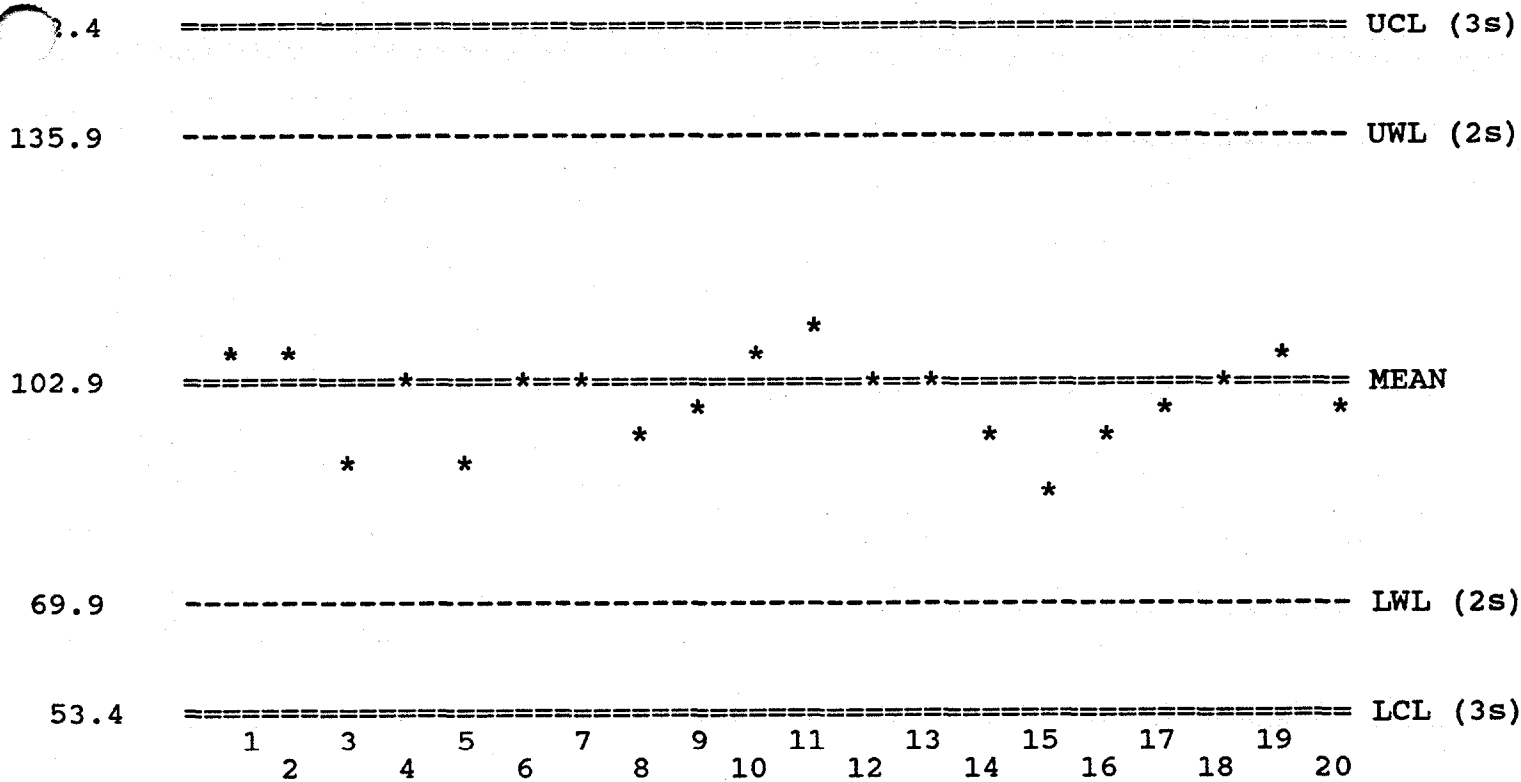
IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Lead Soil

Date: 03-01-1994



Pnt	Rec	Date	Value	Lab ID	Comment
	41	1/13/94	106.0	ALCSS1215A	
	42	1/14/94	105.0	ALCSS1215A	
3	43	1/19/94	91.0	ALCSS0106B	
4	44	1/19/94	103.0	ALCSS0119A	
5	45	1/20/94	93.0	ALCSS0107A	
6	46	1/26/94	102.0	ALCSS0124A	
7	47	1/27/94	104.0	ALCSS0110B	
8	48	1/27/94	95.0	ALCSS0121A	
9	49	1/27/94	101.0	ALCSS0107A	
10	50	1/27/94	108.0	ALCSS0121A	
11	51	1/27/94	109.0	ALCSS0125A	
12	52	1/27/94	102.0	ALCSS0124A	
13	53	1/28/94	102.0	ALCSS1214B	
14	54	1/28/94	97.0	ALCSS1214B	
15	55	1/28/94	88.0	ALCSS0106B	
16	56	1/28/94	97.0	ALCSS0110A	
17	57	2/ 3/94	101.0	ALCSS0203A	
18	58	2/ 9/94	104.0	ALCSS0208A	
19	59	2/10/94	106.0	ALCSS0209A	
20	60	2/10/94	99.0	ALCSS0209B	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Selenium Soil

Date: 02-26-1994

126.5 ===== UCL (3s)

116.1 ----- UWL (2s)

95.4 ===== MEAN

74.7 ----- LWL (2s)

64.3 ===== LCL (3s)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	41	1/25/94	90.0	ALCSS0125A	
2	42	1/25/94	78.0	ALCSS0124A	
3	43	1/25/94	83.0	ALCSS0124A	
4	44	1/25/94	93.0	ALCSS0125A	
5	45	1/25/94	88.0	ALCSS0110A	
6	46	2/ 4/94	106.0	ALCSS0203A	
7	47	2/ 8/94	101.0	ALCSS0208A	
8	48	2/10/94	83.0	ALCSS0209A	
9	49	2/10/94	96.0	ALCSS0209B	
10	50	2/10/94	86.0	ALCSS0210	
11	51	2/11/94	87.0	ALCSS0211A	
12	52	2/16/94	101.0	ALCSS0215A	
13	53	2/23/94	32.0	ALCSS0218A	
14	54	2/23/94	28.0	ALCSS0222A	
15	55	2/23/94	96.0	ALCSS0218A	
16	56	2/23/94	88.0	ALCSS0222A	
17	57	2/24/94	89.0	ALCSS0218A	
18	58	2/24/94	84.0	ALCSS0223A	
19	59	2/24/94	102.0	ALCSS0224A	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Thallium Soil

Date: 02-26-1994

117.6 ===== UCL (3s)

110.8 ----- UWL (2s)

\*

97.3 ===== MEAN

\*

83.7 ----- LWL (2s)

\*

77.0 ===== LCL (3s)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	41	2/ 9/94	100.0	ALCSS0209B	
2	42	2/23/94	96.0	ALCSS0218A	
3	43	2/23/94	84.0	ALCSS0222A	

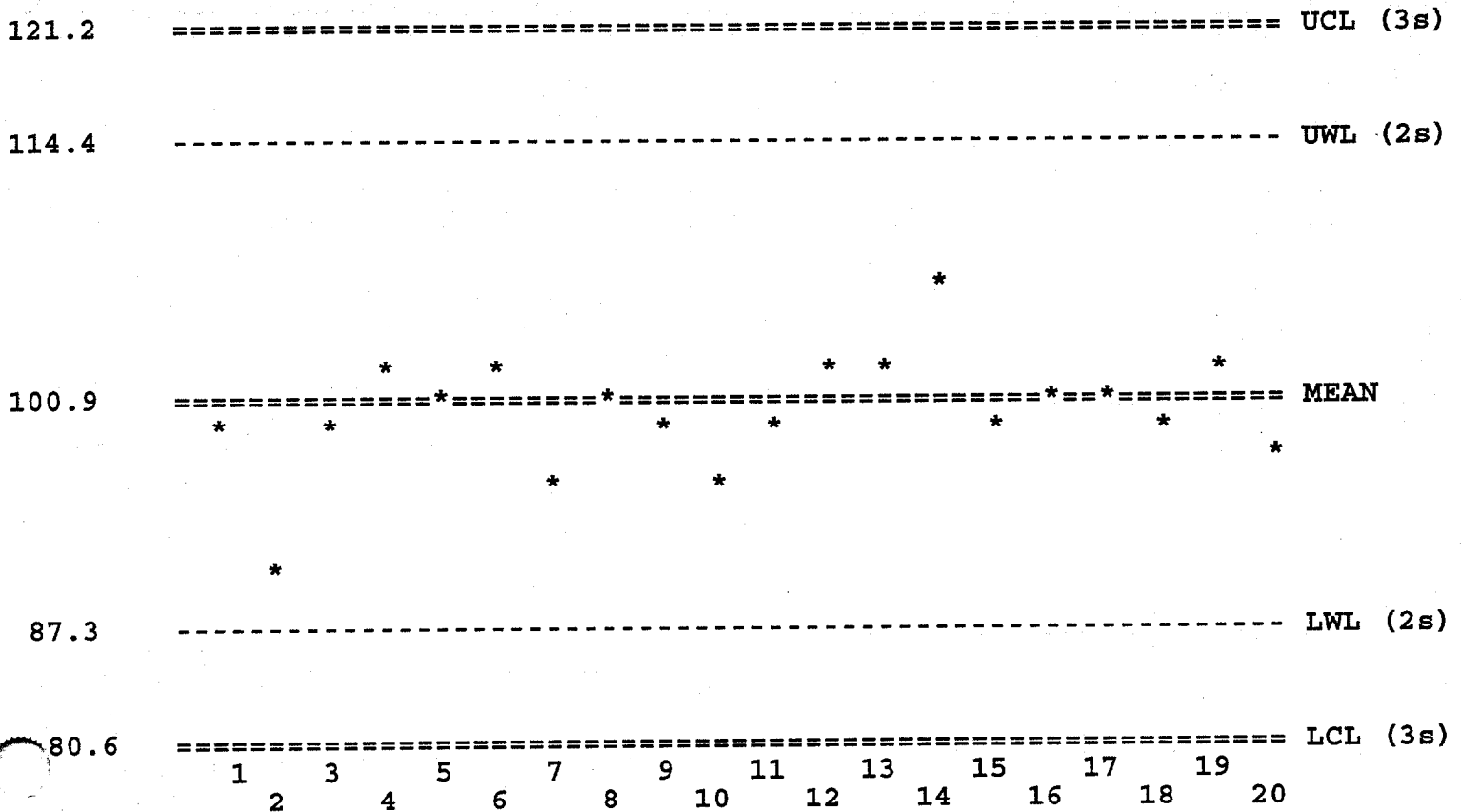
IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Cobalt Soil

Date: 02-26-1994



Pnt	Rec	Date	Value	Lab ID	Comment
1	41	1/11/94	100.0	LCSS0106B	
2	42	1/11/94	92.0	LCSS1215A	
3	43	1/13/94	100.0	LCSS0110A	
4	44	1/13/94	103.0	LCSS0107A	
5	45	1/15/94	101.0	LCSS0113A	
6	46	1/15/94	103.0	LCSS0113B	
7	47	1/18/94	97.0	LCSS0114A	
8	48	1/18/94	101.0	LCSS1215A	
9	49	1/23/94	99.0	LCSS0121A	
10	50	1/24/94	96.0	LCSS0124A	
11	51	1/25/94	100.0	LCSS0125B	
12	52	1/25/94	103.0	LCSS0125A	
13	53	1/27/94	102.0	LCSS0126A	
14	54	1/30/94	107.0	LCSS0107A	
15	55	2/ 4/94	100.0	LCSS0203A	
16	56	2/ 9/94	101.0	LCSS0208A	
17	57	2/15/94	101.0	LCSS0211B	
18	58	2/16/94	100.0	LCSS0215A	
19	59	2/16/94	102.0	LCSS0211C	
20	60	2/16/94	98.0	LCSS0216A	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Cobalt Soil

Date: 02-26-1994

118.0 ===== UCL (3s)

112.2 ----- UWL (2s)

\*  
\*

\*

100.7 ==\*====\*-===== MEAN

89.2 ----- LWL (2s)

83.4 ===== LCL (3s)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/18/94	101.0	LCSS0217A	
2	62	2/19/94	103.0	LCSS0218A	
3	63	2/23/94	101.0	LCSS0222A	
4	64	2/25/94	107.0	LCSS0224A	
5	65	2/25/94	109.0	LCSS0223A	

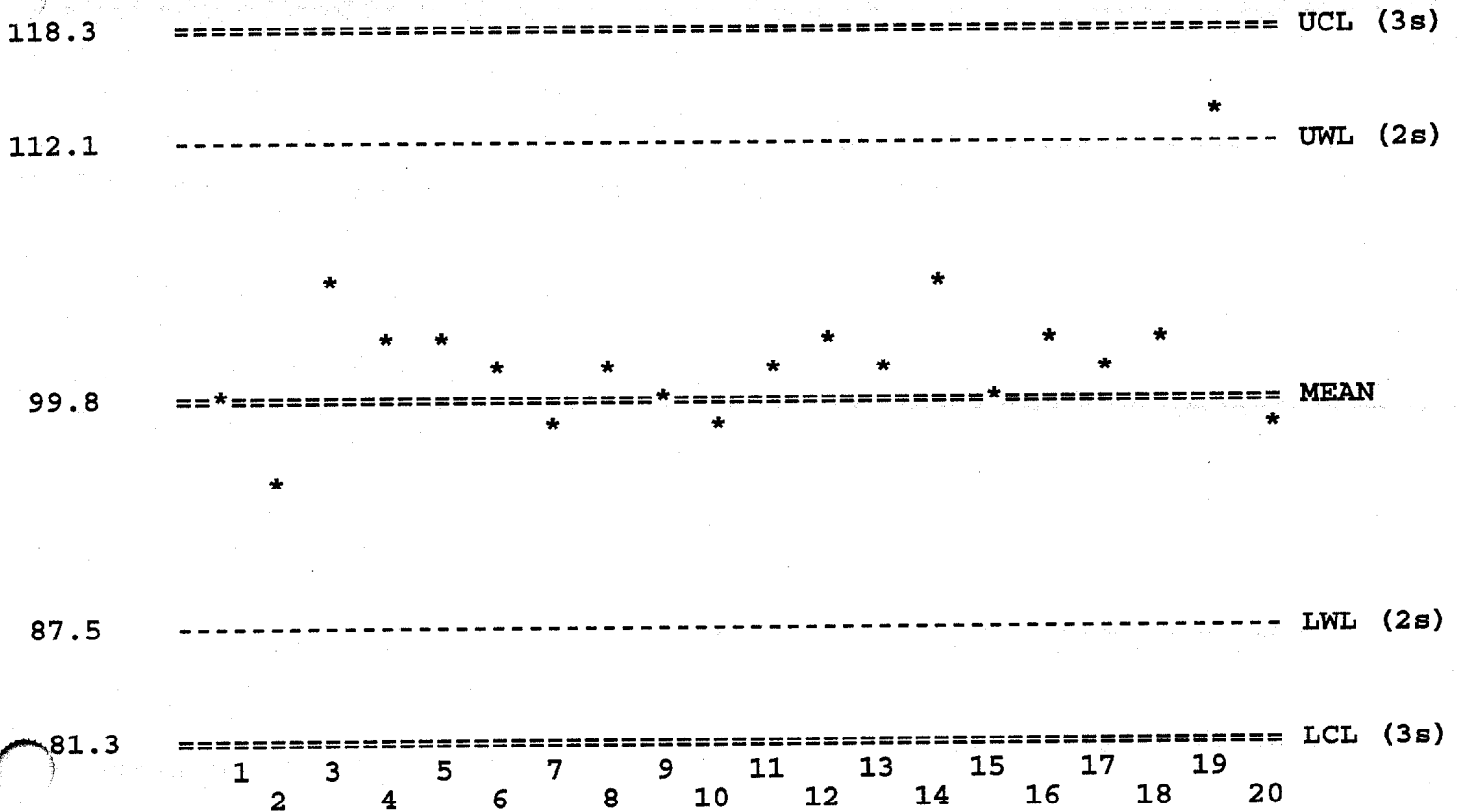
IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Iron Soil

Date: 02-26-1994



Pnt	Rec	Date	Value	Lab ID	Comment
1	41	1/11/94	100.0	LCSS0106B	
2	42	1/11/94	96.0	LCSS1215A	
3	43	1/13/94	105.0	LCSS0110A	
4	44	1/13/94	102.0	LCSS0107A	
5	45	1/15/94	102.0	LCSS0113A	
6	46	1/15/94	101.0	LCSS0113B	
7	47	1/18/94	99.0	LCSS0114A	
8	48	1/18/94	101.0	LCSS1215A	
9	49	1/23/94	100.0	LCSS0121A	
10	50	1/24/94	98.0	LCSS0124A	
11	51	1/25/94	101.0	LCSS0125B	
12	52	1/25/94	102.0	LCSS0125A	
13	53	1/27/94	101.0	LCSS0126A	
14	54	1/30/94	105.0	LCSS0107A	
15	55	2/ 4/94	100.0	LCSS0203A	
16	56	2/ 9/94	103.0	LCSS0208A	
17	57	2/15/94	101.0	LCSS0211B	
18	58	2/16/94	102.0	LCSS0215A	
19	59	2/16/94	113.0	LCSS0211C	
20	60	2/16/94	98.0	LCSS0216A	

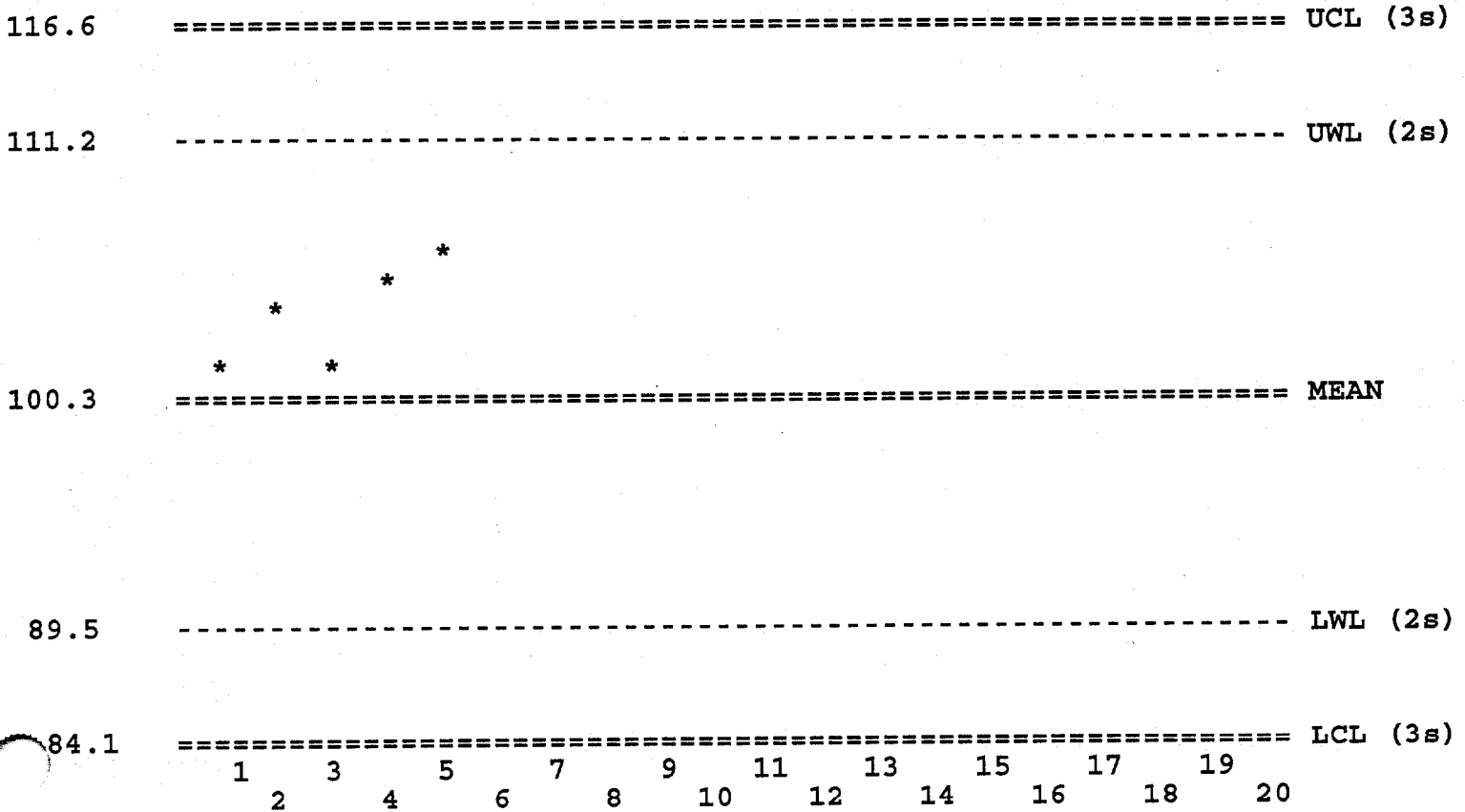
IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Iron Soil

Date: 02-26-1994



Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/18/94	102.0	LCSS0217A	
2	62	2/19/94	104.0	LCSS0218A	
3	63	2/23/94	101.0	LCSS0222A	
4	64	2/25/94	105.0	LCSS0224A	
5	65	2/25/94	106.0	LCSS0223A	



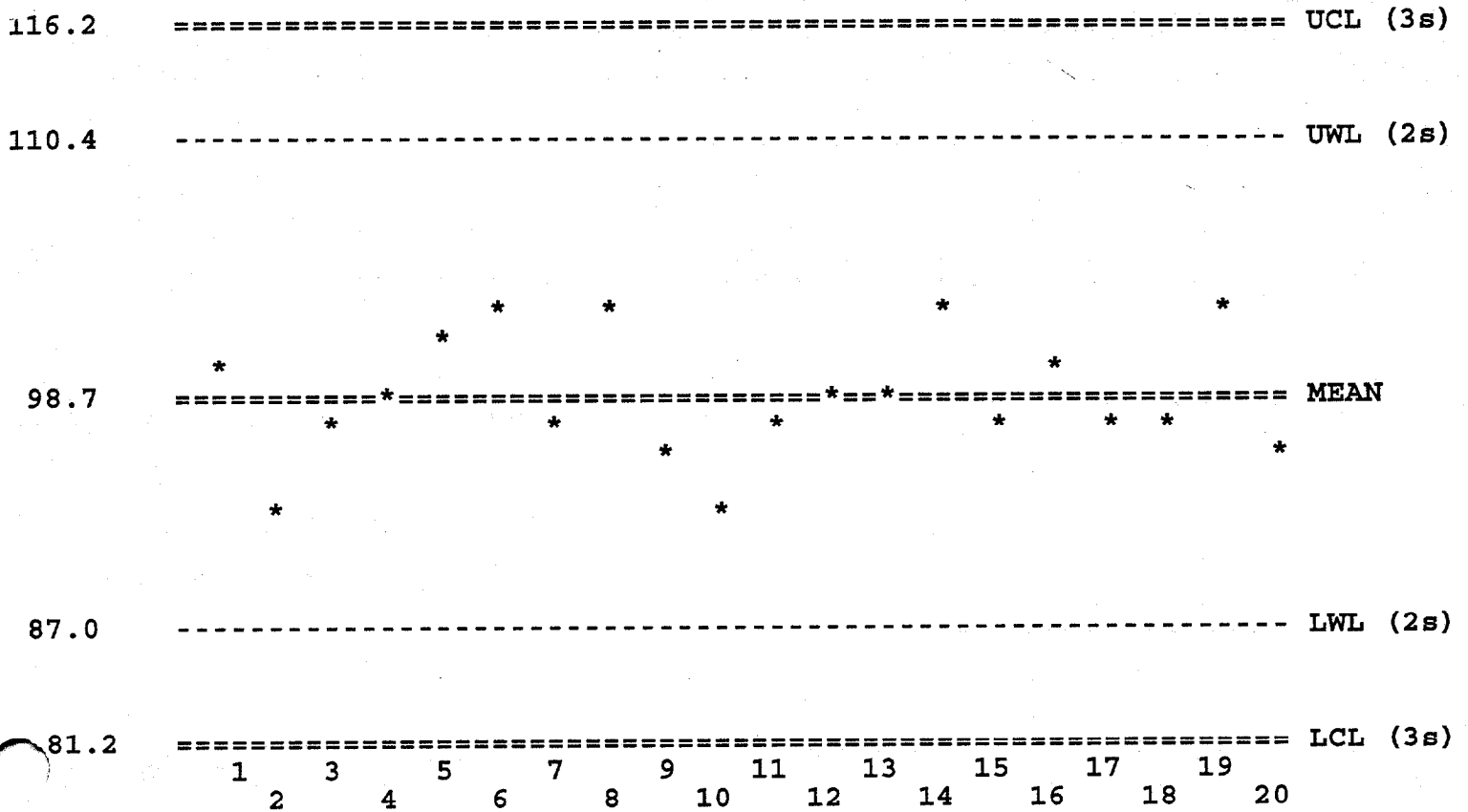
IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Nickel Soil

Date: 02-26-1994



Pnt	Rec	Date	Value	Lab ID	Comment
1	41	1/11/94	100.0	LCSS0106B	
2	42	1/11/94	94.0	LCSS1215A	
3	43	1/13/94	97.0	LCSS0110A	
4	44	1/13/94	99.0	LCSS0107A	
5	45	1/15/94	101.0	LCSS0113A	
6	46	1/15/94	103.0	LCSS0113B	
7	47	1/18/94	98.0	LCSS0114A	
8	48	1/18/94	102.0	LCSS1215A	
9	49	1/23/94	96.0	LCSS0121A	
10	50	1/24/94	94.0	LCSS0124A	
11	51	1/25/94	98.0	LCSS0125B	
12	52	1/25/94	99.0	LCSS0125A	
13	53	1/27/94	99.0	LCSS0126A	
14	54	1/30/94	103.0	LCSS0107A	
15	55	2/ 4/94	98.0	LCSS0203A	
16	56	2/ 9/94	100.0	LCSS0208A	
17	57	2/15/94	97.0	LCSS0211B	
18	58	2/16/94	98.0	LCSS0215A	
19	59	2/16/94	103.0	LCSS0211C	
20	60	2/16/94	96.0	LCSS0216A	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Nickel Soil

Date: 02-26-1994

113.7 ===== UCL (3s)

108.7 ----- LWL (2s)

\* \* \*

98.7 ==\*====\*===== MEAN

88.8 ----- LWL (2s)

83.8 ===== LCL (3s)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/18/94	99.0	LCSS0217A	
2	62	2/19/94	101.0	LCSS0218A	
3	63	2/23/94	99.0	LCSS0222A	
4	64	2/25/94	101.0	LCSS0224A	
5	65	2/25/94	102.0	LCSS0223A	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Vanadium Soil

Date: 02-26-1994

116.1 ===== UCL (3s)

110.6 ----- UWL (2s)

99.8 ===== MEAN

88.9 ----- LWL (2s)

83.4 ===== LCL (3s)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	41	1/11/94	99.0	LCSS0106A	
2	42	1/13/94	101.0	LCSS0107A	
3	43	1/13/94	99.0	LCSS0110A	
4	44	1/15/94	100.0	LCSS0113B	
5	45	1/15/94	100.0	LCSS0113A	
6	46	1/18/94	101.0	LCSS1215A	
7	47	1/18/94	99.0	LCSS0114A	
8	48	1/23/94	98.0	LCSS0121A	
9	49	1/24/94	95.0	LCSS0124A	
10	50	1/25/94	97.0	LCSS0125B	
11	51	1/25/94	99.0	LCSS0125A	
12	52	1/27/94	101.0	LCSS0126A	
13	53	1/30/94	103.0	LCSS0107A	
14	54	2/ 4/94	100.0	LCSS0203A	
15	55	2/ 9/94	100.0	LCSS0208A	
16	56	2/15/94	100.0	LCSS0211B	
17	57	2/16/94	99.0	LCSS0215A	
18	58	2/16/94	100.0	LCSS0211C	
19	59	2/16/94	99.0	LCSS0216A	
20	60	2/18/94	101.0	LCSS0217A	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Vanadium Soil

Date: 02-26-1994

113.2 ===== UCL (3s)

108.7 ----- UWL (2s)

\* \*

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99.7 ===== MEAN

90.7 ----- LWL (2s)

86.2 ===== LCL (3s)

1 3 5 7 9 11 13 15 17 19  
2 4 6 8 10 12 14 16 18 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	61	2/19/94	102.0	LCSS0218A	
2	62	2/23/94	101.0	LCSS0222A	
3	63	2/25/94	104.0	LCSS0224A	
4	64	2/25/94	104.0	LCSS0223A	

IT ANALYTICAL SERVICES

KNOXVILLE, TN

Group: Metals Group

Description: Mercury Soil

Date: 02-26-1994

120.8 ===== UCL (3s)

111.1 ----- UWL (2s)

91.7 ===== MEAN

72.3 ----- LWL (2s)

62.6 ===== LCL (3s)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Pnt	Rec	Date	Value	Lab ID	Comment
1	21	12/31/93	89.0	CLCSS1231A	
2	22	12/31/93	83.0	CLCSS1231B	
3	23	1/ 3/94	96.0	CLCSS0103A	
4	24	1/ 3/94	94.0	CLCSS0103B	
5	25	1/ 4/94	82.0	CLCSS0104 (1	
6	26	1/ 5/94	99.0	CLCSS0105B	
7	27	1/ 6/94	84.0	CLCSS0106B	
8	28	1/ 6/94	93.0	CLCSS0106A	
9	29	1/24/94	89.0	CLCSS0124A	
10	30	1/27/94	87.0	LCSS0127A	
11	31	2/ 3/94	91.0	CLCSS0203A	
12	32	2/ 9/94	93.0	CLCSS0209A	
13	33	2/10/94	91.0	CLCSS0210A	
14	34	2/11/94	86.0	CLCSS0211A	
15	35	2/14/94	94.0	CLCSS0214A	
16	36	2/16/94	91.0	CLCSS0216A	
17	37	2/17/94	94.0	CLCSS0217A	
18	38	2/18/94	86.0	CLCSS0218A	
19	39	2/23/94	89.0	CLCSS0223A	
20	40	2/24/94	79.0	CLCSS0224A	

SECTION ~~39~~ 4a.

DISPOSAL SOIL SAMPLES

(DS)

Camp Lejeune 15226

SAMPLE SUMMARY REPORT

<u>SAMPLE NUMBER</u>	<u>SAMPLE DATE</u>	<u>SAMPLE LOCATION</u>	<u>COC NUMBER</u>	<u>LAB ID</u>	<u>LAB SAMPLE ID</u>	<u>DQO LEVEL</u>	<u>PACKAGE ID</u>	<u>AIRBILL NUMBER</u>
CLJ-DS-02	2/17/94	N. EXCAV.; STP. #1; N. WALL	127966	ASC	JM3565/C6528	IV	615198	7526016761
CLJ-DS-03	2/17/94	N. EXCAV.; STP. #1; S. WALL	127966	ASC	JM3566/C6528	IV	615198	7526016761
CLJ-DS-04	2/17/94	N. EXCAV.; STP. #2; N. WALL	127966	ASC	JM3567/C6529	IV	615198	7526016761
CLJ-DS-05	2/17/94	N. EXCAV.; STP. #2; S. WALL	127966	ASC	JM3568/C6529	IV	615198	7526016761
CLJ-DS-06	2/17/94	N. EXCAV.; STP. #4; SE CORNER	127966	ASC	JM3569	IV	615198	7526016761
CLJ-DS-07	2/17/94	N. EXCAV.; STP. #3; S. WALL	127966	ASC	JM3560	IV	615198	7526016761
CLJ-DS-07d	2/17/94	N. EXCAV.; STP. #3; S. WALL	127966	ASC	JM3561	IV	615198	7526016761
CLJ-DS-08	2/17/94	N. EXCAV.; STP. #3; N. WALL	127966	ASC	JM3562	IV	615198	7526016761
CLJ-DS-09	2/17/94	N. EXCAV.; STP. #4; NW CORNER	127966	ASC	JM3563	IV	615198	7526016761







# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: C6527  
ASC Sample Number: JM3564  
Sample Date: 940217  
Facility Code: 015226N

Parameters                      Units

## Semivolatile Tentatively Identified Compounds, GC/MS, (CL1F)

1H-Indene, octahydro-2,2,4,4,7	mg/kg	5.39 J
Technical chlorophenothane	mg/kg	3.85 J
Unk hydrocarbon	mg/kg	8.49 J
Unk hydrocarbon	mg/kg	2.72 J
Unk hydrocarbon	mg/kg	6.98 J
Unk hydrocarbon	mg/kg	4.11 J
Unk hydrocarbon	mg/kg	7.45 J
Unk hydrocarbon	mg/kg	15.8 J
Unk hydrocarbon	mg/kg	23.2 J
Unk hydrocarbon	mg/kg	3.65 J
Unk organic acid	mg/kg	4.31 J
Unk substituted aromatic	mg/kg	2.64 J
Unk substituted aromatic	mg/kg	7.49 J
Unk substituted aromatic	mg/kg	5.46 J
unknown	mg/kg	3.38 J
unknown	mg/kg	2.73 J
unknown	mg/kg	3.32 J
unknown	mg/kg	6.80 J
unknown	mg/kg	4.21 J
unknown	mg/kg	5.50 J

## Conventional Data (CV10)

BTU/lb	BTU/lb	1110
Chloride	mg/kg	31.5
Cyanide, Total	mg/kg	<.500
Density	gm/cc	.570
Nitrate as N	mg/kg	<2.50
Phosphate, Dissolved	mg/kg	<3.26
Sulfate as SO4	mg/kg	109
pH (Electrode)	std	5.77

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: C6527  
ASC Sample Number: JM3564  
Sample Date: 940217  
Facility Code: 015226N

Parameters                      Units

## Target Compound List PCB Analysis, GC, (GS23)

Aroclor 1016	mg/kg	<.205
Aroclor 1221	mg/kg	<.205
Aroclor 1232	mg/kg	<.205
Aroclor 1242	mg/kg	<.205
Aroclor 1248	mg/kg	<.205
Aroclor 1254	mg/kg	<.205
Aroclor 1260	mg/kg	<.205

## Target Compound List Pesticide and PCB Analysis, GC, (GS25)

Aldrin	ug/kg	<331
Alpha-BHC	ug/kg	<331
Beta-BHC	ug/kg	<331
alpha-Chlordane	ug/kg	<331
gamma-Chlordane	ug/kg	<331
4,4'-DDD	ug/kg	<331
4,4'-DDE	ug/kg	533
4,4'-DDT	ug/kg	24500
Delta-BHC	ug/kg	<331
Dieldrin	ug/kg	<331
Endosulfan sulfate	ug/kg	<331
Endosulfan I	ug/kg	<331
Endosulfan II	ug/kg	<331
Endrin	ug/kg	<331
Endrin ketone	ug/kg	<331
Gamma-BHC	ug/kg	<331
Heptachlor	ug/kg	<331
Heptachlor epoxide	ug/kg	<331
Methoxychlor	ug/kg	<331
Toxaphene	ug/kg	<6620
Aroclor 1016	ug/kg	<3310
Aroclor 1221	ug/kg	<3310
Aroclor 1232	ug/kg	<3310
Aroclor 1242	ug/kg	<3310
Aroclor 1248	ug/kg	<3310
Aroclor 1254	ug/kg	<3310

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: C6527  
ASC Sample Number: JM3564  
Sample Date: 940217  
Facility Code: 015226N

Parameters Units

## Target Compound List Pesticide and PCB Analysis, GC, (GS25)

Aroclor 1260 ug/kg <3310

## Target Analyte List Total Metals Analysis, (ME20)

Aluminum	mg/kg	3440
Antimony	mg/kg	<2.50
Arsenic	mg/kg	6.79
Barium	mg/kg	358
Beryllium	mg/kg	<1.25
Cadmium	mg/kg	<1.25
Calcium	mg/kg	569
Chromium	mg/kg	4.76
Cobalt	mg/kg	<6.25
Copper	mg/kg	13.1
Iron	mg/kg	3170
Lead	mg/kg	19.4
Magnesium	mg/kg	168
Manganese	mg/kg	17.6
Mercury	mg/kg	.080
Nickel	mg/kg	3.47
Selenium	mg/kg	<2.36
Silver	mg/kg	<1.25
Sodium	mg/kg	87.0
Thallium	mg/kg	<6.25
Vanadium	mg/kg	9.40
Zinc	mg/kg	87.9

## Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

Acenaphthene	mg/kg	<3.32
Acenaphthylene	mg/kg	<3.32
Anthracene	mg/kg	<3.32
Benzo (a) anthracene	mg/kg	<3.32
Benzo (b) fluoranthene	mg/kg	<3.32
Benzo (k) fluoranthene	mg/kg	<3.32
Benzo (a) pyrene	mg/kg	<3.32
bis (2-Chloroethoxy) methane	mg/kg	<3.32

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: C6527  
ASC Sample Number: JM3564  
Sample Date: 940217  
Facility Code: 015226N

Parameters Units

## Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

bis(2-Ethylhexyl) phthalate	mg/kg	<3.32
Carbazole	mg/kg	<3.32
4-Chloroaniline	mg/kg	<3.32
2-Chloronaphthalene	mg/kg	<3.32
2-Chlorophenol	mg/kg	<3.32
Chrysene	mg/kg	<3.32
Dibenzo (a, h) anthracene	mg/kg	<3.32
Dibenzofuran	mg/kg	<3.32
1,2-Dichlorobenzene	mg/kg	<3.32
1,3-Dichlorobenzene	mg/kg	<3.32
1,4-Dichlorobenzene	mg/kg	<3.32
3,3'-Dichlorobenzidine	mg/kg	<3.32
2,4-Dichlorophenol	mg/kg	<3.32
2,4-Dimethylphenol	mg/kg	<3.32
2,4-Dinitrophenol	mg/kg	<16.6
2,4-Dinitrotoluene	mg/kg	<3.32
2,6-Dinitrotoluene	mg/kg	<3.32
Fluoranthene	mg/kg	<3.32
Fluorene	mg/kg	<3.32
Hexachlorobenzene	mg/kg	<3.32
Hexachlorobutadiene	mg/kg	<3.32
Hexachlorocyclopentadiene	mg/kg	<3.32
Hexachloroethane	mg/kg	<3.32
Isophorone	mg/kg	<3.32
2-Methylnaphthalene	mg/kg	<3.32
2-Methylphenol	mg/kg	<3.32
4-Methylphenol	mg/kg	<3.32
N-Nitrosodiphenylamine	mg/kg	<3.32
Naphthalene	mg/kg	<3.32
2-Nitroaniline	mg/kg	<3.32
3-Nitroaniline	mg/kg	<3.32
4-Nitroaniline	mg/kg	<3.32
Nitrobenzene	mg/kg	<3.32
2-Nitrophenol	mg/kg	<3.32
4-Nitrophenol	mg/kg	<16.6

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 5

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: C6527  
ASC Sample Number: JM3564  
Sample Date: 940217  
Facility Code: 015226N

Parameters Units

## Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

Pentachlorophenol	mg/kg	<3.32
Phenanthrene	mg/kg	<3.32
Phenol	mg/kg	<3.32
Pyrene	mg/kg	<3.32
1,2,4-Trichlorobenzene	mg/kg	<3.32
2,4,5-Trichlorophenol	mg/kg	<3.32
2,4,6-Trichlorophenol	mg/kg	<3.32

## Target Compound List Volatile Analysis, MS, (MV20)

Acetone	mg/kg	<.625
Benzene	mg/kg	<.625
Bromoform	mg/kg	<.625
Carbon disulfide	mg/kg	<.625
Carbon tetrachloride	mg/kg	<.625
Chlorobenzene	mg/kg	<.625
Chlorodibromomethane	mg/kg	<.625
Chloroethane	mg/kg	<.625
Chloroform	mg/kg	<.625
Dichlorobromomethane	mg/kg	<.625
1,1-Dichloroethane	mg/kg	<.625
1,2-Dichloroethane	mg/kg	<.625
1,1-Dichloroethylene	mg/kg	<.625
1,2-Dichloropropane	mg/kg	<.625
cis-1,3-Dichloropropylene	mg/kg	<.625
trans-1,3-Dichloropropylene	mg/kg	<.625
Ethylbenzene	mg/kg	<.625
2-Hexanone	mg/kg	<.625
Methyl bromide	mg/kg	<.625
Methyl chloride	mg/kg	<.625
Methylene chloride	mg/kg	<.625
Methyl ethyl ketone	mg/kg	<1.25
Methyl-iso-butyl ketone	mg/kg	<1.25
Styrene	mg/kg	<.625
1,1,2,2-Tetrachloroethane	mg/kg	<.625
Tetrachloroethylene	mg/kg	<.625

# DATA SUMMARY REPORT

DATE: 11/02/94

PAGE: 6

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: C6527  
ASC Sample Number: JM3564  
Sample Date: 940217  
Facility Code: 015226N

Parameters                      Units

## Target Compound List Volatile Analysis, MS, (MV20)

Toluene	mg/kg	<.625
1,2-Trans-dichloroethylene	mg/kg	<.625
1,1,1-Trichloroethane	mg/kg	<.625
1,1,2-Trichloroethane	mg/kg	<.625
Trichloroethylene	mg/kg	<.625
Vinyl chloride	mg/kg	<.625
Xylenes	mg/kg	<.625



Analytical Services Corp.

C6527 { DS-02,03,04,05,06,07,07D,08,09  
DISPOSAL SOIL COMPOSITE

C6528 { DS-02,03  
DISPOSAL SOIL COMPOSITE

C6529 { DS-04,05  
DISPOSAL SOIL COMPOSITE

DS-06	Disposal Soil Sample # 6
DS-07	" " " # 7
DS-08	" " " # 8
DS-09	" " " # 9

# ANALYTICAL REPORT

**Client:** OHM Remediation Services Corporation  
Southern Region (Morrisville, NC)

**Attn:** Kent Geis  
Bill Perry

**Project:** 15226N - NEESA; Camp LeJuene, Jacksonville, NC

**Sample(s):** C6527 through C6529, CLJ-DS-06 through CLJ-DS-09 and CLJ-DS-07D

**Sample Type(s):** Solid

**Analysis Performed:** Conventionals, Metals and Organics

**Date Sample Received:** February 18, 1994

**Date Order Received:** February 18, 1994

**Joblink(s):** 615198

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Reviewed and  
Approved by:

Thomas E. Gran, Ph.D., Vice President

Date: 5/31/94



## SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
<b>Conventionals</b>		
Acids by IC (Cl, NO <sub>3</sub> , PO <sub>4</sub> and SO <sub>4</sub> )	CAWW	300.0
Test Bulking	ASTM	D5058
BTU/lb	ASTM	D240-76
Bulk Density	ASTM	D5057
<b><u>RCRA Characteristics</u></b>		
pH, Electrode	SW-846	9045
Reactive Sulfide	SW-846	7.3.4.2
Flash Point, Seta Flash	SW-846	1020
Reactive Cyanide	SW-846	7.3.3.2
<b>Metals</b>		
Total Metals	SW-846	6010
<b>Organics</b>		
Volatile Compounds by GC/MS	SW-846	8240
Semi-volatile Compounds by GC/MS	SW-846	8270
Pesticides and PCBs by GC	SW-846	8080
<b>Total Petroleum Hydrocarbons (TPHC) by GC</b>		
Total Volatile Hydrocarbons (TVH) by GC	SW-846	8015
Total Extractable Hydrocarbons (TEH) by GC	SW-846	8100
<b>RCRA TCLP</b>		
Leachate Preparation	SW-846	1311
Herbicides by GC	SW-846	8150 (1)
Pesticides by GC	SW-846	8080
Metals	SW-846	6010
Mercury by Cold Vapor	SW-846	7470
Semi-volatile Compounds by GC/MS	SW-846	8270
Volatile Compounds by GC/MS	SW-846	8240

## SDG NARRATIVE

---

### Conventionals

The pH results are in standard units not mg/kg.

The method qualifier for pH (Electrode) is "pH", for Flashpoint it is "FP", for Reactive Cyanide it is "RC", for Reactive Sulfide it is "RS" for BTU it is "BTU" and for Density it is "DE". The CLP manual does not address these results or this method for reporting.

The Flashpoint results are in °C not mg/kg.

### Metals

Spike sample recoveries were outside criteria for Antimony and Selenium. Spike sample recoveries were not obtainable due to high analyte concentration for Iron, Lead and Zinc.

Iron, Lead, Manganese, Nickel and Zinc demonstrated poor replication indicating sample non-homogeneity with respect to these analytes.

### Total Petroleum Hydrocarbons by Gas Chromatography (TPH/GC)

#### Total Volatile Hydrocarbons

All matrix and method spikes were within acceptability limits.

The initial and continuing calibration criteria were met.

#### Total Extractable Hydrocarbons

Due to the high amount of analyte detected in the unspiked sample, matrix spike samples do not provide valid recovery data. Batch acceptance is based on method spike recoveries which were within acceptability limits.

All initial and continuing calibration criteria were met.

### Pesticides

Tetrachloro-m-xylene (TCX) was outside advisory limits in the Method Blank and Method Spike samples. Sample C6527 was diluted due to high amount of target compounds present in the sample. As a result, all surrogates were diluted below detectable levels and therefore, no recovery values can be reported. Sample C6527 was also utilized for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) and resulted in surrogate and spiking compounds diluted below detectable levels. As a result, no surrogate or spike recovery values can be reported.

Decachlorobiphenyl (DCB) was outside advisory limits in the Method Spike confirmation analysis. No further action has been taken.

All initial and continuing calibration criteria were met.

**SDG NARRATIVE (continued)**

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**PCBs**

Sample #C6527 was diluted due to high sample matrix interferences from the Pesticides present, this sample was also utilized for the matrix spike and matrix spike duplicate. As a result, all surrogate and spiking compounds were diluted below detectable levels. No surrogate or spike recovery values could therefore be reported.

The dilution factor also elevated the reported detection limit.

The initial and continuing calibration criteria were met.

**Semi-volatile Organics**

Due to high amount of non-target compounds present in Sample #C6527, spike and surrogate recoveries are outside QC limits for numerous parameters. This sample matrix effect was confirmed by the MS/MSD analysis resulting in the same surrogate recoveries as the unspiked Sample #C6527. Batch acceptance is based on method spike recoveries which were within QC limits.

The sample matrix effect discussed above also caused the last three internal standards to fail response criteria. Again, sample matrix effect was confirmed by the analysis of the MS/MSD which resulted in the last three internal standards failing response criteria.

All initial and continuing calibration criteria were met.

**Volatile Organics**

Due to high levels of non-target compounds present in Sample #C6527, the medium level methanol extraction was performed.

Due to sample matrix interferences, Toluene-d8 was outside recovery limits for Sample #6527. Sample matrix effect was confirmed by the analysis of the Sample #C6527 MS/MSD, where Toluene-d8 was also outside QC limits in the same direction.

All MS recoveries were within QC limits.

All initial and continuing calibration criteria were met.

**TCLP Herbicides**

All matrix and method spike recoveries were within acceptability limits.

The initial and continuing calibration criteria were met.

**TCLP Pesticides**

The Toxaphene matrix and method spike recoveries were outside the established recovery criteria. The recoveries would lead to a high bias for any sample results reported.

**SDG NARRATIVE (continued)**

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Toxaphene was not detected in any of the samples associated with this sample batch, therefore, this anomaly does not impact the validity of the data as reported.

All initial and continuing calibration criteria were met.

**TCLP Metals**

Since the samples were analyzed for TCLP analytes the items listed (color before, artifacts, etc.) at the bottom of Form I-IN were not reported.

All of the Initial and Continuing Calibration verifications were inside the QC limits.

Due to the bottles used for the TCLP leachate preparation a small amount of Barium is present in the samples. The level is well below any level of concern for this project using this analysis. ASC believes that this will not affect the validity of data for this project.

The ICP Interference Check samples, the pre-digestion spike sample, and the duplicate sample analysis were within the required QC criteria.

The laboratory Control Sample exhibited good recoveries with a range between 67 to 122%.

**TCLP Semi-volatile Organics**

The Pentachlorophenol matrix and method spike recoveries were outside the established recovery criteria. The recoveries would lead to a high bias for any sample results reported. Pentachlorophenol was not detected in any of the samples associated with this sample batch, therefore, this anomaly does not impact the validity of the data as reported.

Poor surrogate recovery for the acid extractable fraction of the MSD sample was reported for this analytical batch. No further action was taken. Other acid extractable fraction spike compounds were recovered within QC limits.

Terphenyl-d14 was outside established recovery criteria for the method blank. No results were reported for any of the samples in this analytical batch, therefore, this anomaly does not impact the validity of the data as reported.

2,4,5-Trichlorophenol and 2,4,6-Trichlorophenol were not recovered in the MSD analysis. No further action was taken. These compounds were recovered within QC limits in both the MS and blank spike samples. Other acid extractable fraction compounds were recovered within QC limits for the MSD.

All initial and continuing calibration criteria were met.

**TCLP Volatile Organics**

The initial and continuing calibration criteria were met.

**SDG NARRATIVE (continued)**

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Toluene-d8 and Bromofluorobenzene were outside the surrogate QC limits for Sample #CLJ-DS-07. No further action was taken. No results were reported for this sample or the field duplicate #CLJ-DS-07D, therefore, this anomaly should not impact the validity of the data as reported.

Bromofluorobenzene was outside surrogate QC limits for Sample #CLJ-DS-0. No further action was taken. The recovery was 1% below the lower control limit.

Benzene, Trichloroethene and Chlorobenzene were outside spike recovery limits for the MS and MSD. (Trichloroethane was just within lower control limit in the MSD.) These constituents exhibited the same recovery pattern in the blank spike which leads to a low bias for this sample batch.

**Test Bulking Results**

Facility: 15226N  
Sample Identifier: C6528  
ASC Sample Number: JM3557

---

Test Bulking Parameters	Result
Date of Test Bulk:	February 22, 1994
Samples Bulk:	CLJ-DS-02 and CLJ-DS-03
Temperature Rise:	< 2.0°C
Gas Evolved:	None observed
Precipitate:	None observed
Gelling or Solidification:	None observed

**Test Bulking Results**

Facility: 15226N  
Sample Identifier: C6529  
ASC Sample Number: JM3558

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**Test Bulking Parameters****Result**

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Date of Test Bulk:	February 22, 1994
Samples Bulked:	CLJ-DS-04 and CSLJ-DS-05
Temperature Rise:	< 2.0°C
Gas Evolved:	None observed
Precipitate:	None observed
Gelling or Solidification:	None observed

# COVER PAGE CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: 6652<sup>NA</sup>

DW No.: NA

EPA Sample No.

Lab Sample ID.

C6528

JM 3557

C6529

JM 3558

CAT-DS-16

JM 3559

CAT-DS-07

JM 3560

CAT-DS-09D

JM 3561

CAT-DS-08

JM 3562

CAT-DS-09

JM 3563

C6527

JM 3564

COMMENTS: See SDG Narrative

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

Signature: J. Anatow

Name: Joseph Anatow

Date: 5/26/94

Title: OPERATIONS MANAGER



# CONVENTIONAL ANALYSIS DATA SHEET (1) 0009

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: 01527  
 Lab Code: NA Case #: NA SAS #: NA SDG #: ~~6528~~ NA  
 Matrix: (soil/water) soil Level: (low/med) MED Lab Sample ID: JM3564  
 % Solids: 79.8 Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Chloride	31.5	B		IC
	Nitrate as N	2.50	B		IC
	Phosphate as P	3.26	U		IC
	Sulfate	109			IC
	BTL 1/b	1110.			BTL
	Density g/cc	.570			DE

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# 0010

## CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: 01528  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA-28  
 Matrix: (soil/water) SOIL Level: (low/med) MED Lab Sample ID: IM3557  
 % Solids: 74.5 Date Received: 02/18/92

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>100			FP
	pH (Electrode)	7.00			pH

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

0011

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: 06529  
 Lab Code: NA Case #: NA SAS #: 1A SDG #: 6528  
 Matrix: (soil/water) SOIL Level: (low/med) NA Lab Sample ID: JM 3558  
 % Solids: 74.5 Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	10.56			PH

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: NEBA EPA SAMPLE #: UT-DS-6  
 Lab Code: NA Case #: NA SAS #: NA SDG #: 1128  
 Matrix: (soil/water) soil Level: (low/med) med Lab Sample ID: IM 3559  
 % Solids: 88.8 Date Received: 02/18/9

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	7.00			pH

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

## CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* Contract: *NEES* EPA SAMPLE #: *LT-2564*  
Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *11/19*  
Matrix: (soil/water) *soil* Level: (low/med) *LOW* Lab Sample ID: *SM 3560*  
% Solids: *89.2* Date Received: *02/18/92*

Concentration Units (ug/L or mg/kg dry weight): *mg/kg*

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	<i>10.0</i>	<i>U</i>		<i>R</i>
	Reactive Sulfide	<i>10.0</i>	<i>U</i>		<i>RS</i>
	Flashpoint, 60°C	<i>&gt;60</i>			<i>FP</i>
	pH (Electrode)	<i>7.03</i>			<i>PH</i>

Color Before: \_\_\_\_\_

Clarity Before: \_\_\_\_\_

Texture: \_\_\_\_\_

Color After: \_\_\_\_\_

Clarity After: \_\_\_\_\_

Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp    Contract: NEESA    EPA SAMPLE #: CLJ-DS-04  
 Lab Code: NA    Case #: NA    SAS #: NA    SDG #: NE/LSR  
 Matrix: (soil/water) SPIL    Level: (low/med) MED    Lab Sample ID: IM 3561  
 % Solids: 835    Date Received: 02/18/9

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	7.00			pH

Color Before: \_\_\_\_\_    Clarity Before: \_\_\_\_\_    Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_    Clarity After: \_\_\_\_\_    Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

### CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: Analytical Services Corp Contract: NEESA EPA SAMPLE #: 115-D5-08  
 Lab Code: NA Case #: NA SAS #: NA SDG #: 115-28  
 Matrix: (soil/water) SOIL Level: (low/med) MED Lab Sample ID: 115 3562  
 % Solids: 85.3 Date Received: 02 / 18 / 97

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	6.40			pH

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

## CONVENTIONAL ANALYSIS DATA SHEET (1)

**Lab Name:** Analytical Services Corp    **Contract:** NEESA    **EPA SAMPLE #:** UT-25-09  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** NA  
**Matrix:** (soil/water) soil    **Level:** (low/med) med    **Lab Sample ID:** IM3563  
**% Solids:** 92.8    **Date Received:** 02/18/96

Concentration Units (ug/L or mg/kg dry weight): mg/kg

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60			FP
	pH (Electrode)	5.63			PH

**Color Before:** \_\_\_\_\_    **Clarity Before:** \_\_\_\_\_    **Texture:** \_\_\_\_\_  
**Color After:** \_\_\_\_\_    **Clarity After:** \_\_\_\_\_    **Artifacts:** \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_



**BLANKS (3)**

**0017**

Lab Name: *Analytical Services Corp*

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: CL588

Prep Blank Matrix: (soil/water) SOIL

Prep Blank Concentration Units: (ug/L or mg/kg) mg/kg

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide									0.000	U	RE
Reactive Sulfide									0.000	U	DS

# SPIKE SAMPLE RECOVERY (5A)

0018

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: LT-DS-06  
Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
Matrix: (soil/water) SOIL Level (low/med): MED % Solids for Sample: 88.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide									
Reactive Sulfide	<u>50-100</u>	<u>299</u>		<u>1000</u>		<u>360</u>	<u>83</u>		<u>RS</u>

COMMENTS:

# SPIKE SAMPLE RECOVERY (5A)

0019

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: 06528  
 Lab Code: NT      Case #: NA      SAS #: DF      SDG #: NA  
 Matrix: (soil/water) SOIL      Level (low/med): MED      % Solids for Sample: 945

Concentration Units (ug/L or mg/kg dry weight): mg/kg

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide		144		.000		188	77		RC
Reactive Sulfide									

COMMENTS: \_\_\_\_\_

# DUPLICATES (6)

0020

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: 06528  
Lab Code: NA Case #: NA SAS #: LA SDG #: NA  
Matrix: (soil/water) SOIL % Solids for Sample: 74.5  
Level (low/med): MED % Solids for Duplicate: 74.5

Concentration Units (ug/L or mg/kg dry weight): mg/kg

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide		144		122.7	11	16		RC
Reactive Sulfide								

# DUPLICATES (6)

0021

Lab Name: Analytical Services Corp Contract: NEESA EPA Sample #: NAT-DS-01

Lab Code: NA Case #: NA SAS #: NA SDG #: NA

Matrix: (soil/water) SOIL % Solids for Sample: 58.8

Level (low/med): MED % Solids for Duplicate: 58.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide								
Reactive Sulfide		290		290	u	0		RS

# LABORATORY CONTROL SAMPLE (7)

0022

Lab Name: Analytical Services Corp

Contract: LEESA

Lab Code: DA

Case #: DA

SAS #: DA

SDG #: DA

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: CV-0065

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Reactive Cyanide	158	116	61.7					
Reactive Sulfide								

0023

# LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp*

Contract: DEESA

Lab Code: LA

Case #: DA

SAS #: DA

SDG #: DA

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: CU-0039

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Reactive Cyanide								
Reactive Sulfide	36.0	299	83.0					

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: STD. 4 AIC-122

Continuing Calibration Source: STD 4-AIC-12

Concentration Units: ug/L

Analyte	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chloride	5.0	5.07	101	5.0	5.13	103			10
Nitrate as N	2.26	2.16	95.6	2.26	2.31	102			10
Phosphate as P	3.26	3.05	93.6	3.26	3.12	95.7			10
Sulfate	10.0	9.46	94.6	10.0	9.86	98.6			10

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115



BLANKS (3)

0025

Lab Name: Analytical Services Corp

Contract: NDESA

Lab Code: NA  
00518

Case #: NA

SAS #: NA

SDG #: NA

Prep Blank Matrix: (soil/water) Soil

Prep Blank Concentration Units: (ug/L or mg/kg) mg/kg

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Chloride								0	B	IC	
Nitrate as N								0	U	IC	
Phosphate as P								0	U	IC	
Sulfate								.270	B	IC	

# SPIKE SAMPLE RECOVERY (5A)

0026

Lab Name: Analytical Services Corp      Contract: NEESA      EPA Sample #: 01587  
 Lab Code: 171      Case #: 17      SAS #: 17      SDG #: 17  
 Matrix: (soil/water) SOIL      Level (low/med): 17E2      % Solids for Sample: 79.8

Concentration Units (ug/L or mg/kg dry weight): mg/kg

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Chloride		9.77		3.15	B	5.00	132		10
Nitrate as N		1.30		.064	B	1.13	109		10
Phosphate as P		1.70		.183	B	1.63	98.0		10
Sulfate		16.59		10.96		5.00	105		10

COMMENTS: \_\_\_\_\_

# DUPLICATES (6)

Lab Name: Analytical Services Corp     Contract: NEESA     EPA Sample #: 06587  
Lab Code: NA     Case #: NA     SAS #: NA     SDG #: NA  
Matrix: (soil/water) SOIL     % Solids for Sample: 79.8  
Level (low/med): MED     % Solids for Duplicate: 79.5

Concentration Units (ug/L or mg/kg dry weight): mg/kg

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Chloride		9.77		9.72		.53		10
Nitrate as N		1.30		1.31		1.53		10
Phosphate as P		1.70		1.70		0		10
Sulfate		16.09		16.10		.061		10

# LABORATORY CONTROL SAMPLE (7)

0028

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: 66538

Liquid LCS Source: MTD SPIKE INVLNT.

Aqueous LCS Source: \_\_\_\_\_

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	% R	True	Found	C	Limits	% R
Chloride	5.00	5.66	113					
Nitrate as N	1.13	1.20	106					
Phosphate as P	1.63	1.66	102					
Sulfate	5.00	5.36	107					

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: NEESA

Lab Code: NA Case #: NA

SAS #: NA SDG #: NA

DW No.: \_\_\_\_\_

EPA Sample No.

Lab Sample ID.

C6527

JM3564

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Were ICP interelement corrections applied?

Yes/NO YES

Were ICP background corrections applied?  
If YES - were raw data generated before  
application of background corrections?

Yes/NO YES

Yes/NO NO

COMMENTS: See SDG Narrative

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

Signature: [Handwritten Signature]

Name: Joseph Hnatow

Date: 5/26/94

Title: Operations Manager

1  
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527

Lab Name: ANALYTICAL SERVICE CORP. contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix (soil/water): SOIL Lab Sample ID: JM3564

Level (low/med): LOW Date Received: 2/18/94

% Solids: 20.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3440			P
7440-36-0	Antimony	2.50	U		P
7440-38-2	Arsenic	6.79			F
7440-39-3	Barium	358			P
7440-41-7	Beryllium	1.25	U		P
7440-43-9	Cadmium	1.25	U		P
7440-70-2	Calcium	569			P
7440-47-3	Chromium	4.76			P
7440-48-4	Cobalt	6.25	U		P
7440-50-8	Copper	13.1			P
7439-89-6	Iron	3170			P
7439-92-1	Lead	19.4			F
7439-95-4	Magnesium	168			P
7439-96-5	Manganese	17.6			P
7439-97-6	Mercury	0.080			Cv
7440-02-0	Nickel	3.47			P
7440-09-7	Potassium	<del>75</del> 10.94			
7782-49-2	Selenium	2.36	U		F
7440-22-4	Silver	1.25	U		P
7440-23-5	Sodium	87.0			P
7440-28-0	Thallium	6.25	U		P
7440-62-2	Vanadium	9.40			P
7440-66-6	Zinc	87.9			P
	Cyanide				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA

SDG No.: NA

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	4630	9797	102	4800	4861	101			
Antimony	4620	4510	97.6	2300	2409	105			
Arsenic	32.8	34.9	106	20.5	20.9	102	19.3	94.1	F
Barium	9240	9329	101	4790	4774	99.7			
Beryllium	248	249	100	125	125	100			
Cadmium	2530	2568	102	1290	1319	102			
Calcium	23100	23940	104	11950	12360	103			
Chromium	973	986	101	487	504	103			
Cobalt	2510	2532	101	1280	1311	102			
Copper	1260	1300	103	606	657	108			
Iron	4670	4770	102	2390	2433	102			
Lead	35.3	36.04	102	21.2	21.44	101	21.99	104	F
Magnesium	23300	23460	101	12300	12600	102			
Manganese	2500	2528	101	1280	1258	98.3			
Mercury									
Nickel	2500	2571	103	1310	1320	101			
Potassium	23800	24160	102	11920	12040	101			
Selenium									
Silver	1260	1276	101	588	619	105			
Sodium	23800	24020	101	12140	12340	102			
Thallium	4510	4557	101	2350	2398	102			
Vanadium	4730	4748	100	2410	2448	102			
Zinc	2480	2500	101	1240	1271	103			
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A

Initial Calibration Source: VENTURES

Continuing Calibration Source: VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	5.00	5.31	106	5.00	5.28	106			CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115



2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Initial Calibration Source: APG

Continuing Calibration Source: APG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	39.1	37.5	95.9	23.5	23.9	102			E
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

3  
BLANKS

Lab Name: ANALYTICAL SERVICES CORP.

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Preparation Blank Matrix (soil/water): Soil

Preparation Blank Concentration Units (ug/L or mg/kg): mg/kg

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum	26.2	U	6.9	U				19.3	U	P	
Antimony	26.5	U	11.2	U				0.4	U	P	
Arsenic	-1.4	U	-0.1	U	0.6	U		-1.2	U	F	
Barium	2.2	U	<del>2.2</del> 7	U				2.0	U	P	
Beryllium	0.2	U	0.1	U				0	U	P	
Cadmium	0.5	U	0.6	U				1.2	B	P	
Calcium	11.0	B	6.9	B				55.8	U	P	
Chromium	-1.0	U	-0.5	U				1.4	U	P	
Cobalt	2.2	U	0.4	U				1.7	U	P	
Copper	5.1	U	0.8	U				32.3	U	P	
Iron	10.6	B	8.3	B				13.9	B	P	
Lead	-0.5	U	-0.9	U	-0.8	U		-0.2	U	F	
Magnesium	22.2	U	3.6	U				22.2	U	P	
Manganese	0.9	U	0.6	U				0.9	U	P	
Mercury	-0.08	U	-0.05	U				-0.05	U	CV	
Nickel	0.4	U	1.1	U				1.2	U	P	
Potassium	-86.4	U	-144.1	U				7.2	U	P	
Selenium	-0.6	U	-0.9	U				0.1	U	F	
Silver	3.3	U	0.9	U				1.3	U	P	
Sodium	85.1	U	111	U				40.6	U	P	
Thallium	3.3	U	-0.8	U				-1.4	U	P	
Vanadium	2.9	U	2.3	U				2.0	U	P	
Zinc	0.9	U	0.7	U				18.2	B	P	
Cyanide											

## U.S. EPA - CLP

4

## ICP INTERFERENCE CHECK SAMPLE

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAICP ID Number: 61 ICS Source: VENTURES

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	487000	481000	490000	484000	101	497000	482000	100
Antimony		895	24.2	952	106	48.5	911	102
Arsenic								
Barium		471	19	467	99.2	1.8	464	98.5
Beryllium		465	0	464	99.8	-0.1	466	100
Cadmium		874	-9.5	906	104	-10.4	905	104
Calcium	184000	227000	187000	228000	100	191000	228000	100
Chromium		462	-5.8	471	102	-7.4	473	102
Cobalt		432	-2.9	442	102	-4.7	441	102
Copper		472	22.9	502	106	10.8	489	104
Iron	177000	172000	178000	174000	98.3	180000	173000	101
Lead								
Magnesium	243000	490000	244000	497000	101	249000	499000	102
Manganese		406	-2.3	445	110	-1.6	438	108
Mercury								
Nickel		872	-5.5	880	101	0.1	878	101
Potassium								
Selenium								
Silver		923	-6.9	930	101	-5.9	921	99.8
Sodium		963	158	1168	121	166	1213	126
Thallium		864	1.9	888	103	10.1	883	102
Vanadium		446	0.5	446	100	1.4	478	100
Zinc		923	24.8	937	102	27.0	937	101

5A  
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ANALYTICAL SERVICES CORP

Contract: Neesa

C6527

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): Soil

Level (low/med): LOW

Solids for Sample: \_\_\_\_\_

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	4140	3440	317	220		P
Antimony	75-125	7.51	1.23	14.7	42.7	N	P
Arsenic	75-125	92.05	72.06	20.0	100		P
Barium	75-125	412	358	62.1	87.0		P
Beryllium	75-125	2.04	.609	1.57	91.1		P
Cadmium	75-125	1.35	-.025	1.63	82.8		P
Calcium	75-125	816	569	320	77.2		P
Chromium	75-125	10.6	4.76	6.66	87.7		P
Cobalt	75-125	15.4	1.46	16.3	85.5		P
Copper	75-125	19.6	13.1	8.64	75.2		P
Iron	75-125	2710	3170	315	φ	L	P
Lead	75-125	151	205	20	φ		P
Magnesium	75-125	315	168	162	90.2		P
Manganese	75-125	30.5	17.6	15.8	81.6		P
Mercury	75-125	5.62	1.58	5.00	80.8		CV
Nickel	75-125	17.4	3.47	16.5	84.4		P
Potassium	75-125	686	383	325	93.2		P
Selenium	75-125	29	15	20	70	N	P
Silver	75-125	1.15	.0656	1.5	76.7		P
Sodium	75-125	376	87.0	316	91.5		P
Thallium	75-125	53.9	-0.728	64.0	85.4		P
Vanadium	75-125	23.8	9.70	15.7	91.7		P
Zinc	75-125	82.7	87.9	15.9	φ		P
Cyanide							

Comments:

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0037

U.S. EPA - CLP

5B  
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ANALYTICAL Services Corp

Contract: Neesa

CG527

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): Soil

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							
Antimony	<u>75-125</u>	<u>870.7</u>	<u>39.4</u>	<u>892</u>	<u>97.6</u>		<u>P</u>
Arsenic							
Barium							
Beryllium							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron							
Lead							
Magnesium							
Manganese							
Mercury							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Thallium							
Vanadium							
Zinc							
Cyanide							

Comments:

No other parameters required Post-spiking

Lab Name: ANALYTICAL SERVICES CORP

Contract: Neesa

C6527

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: \_\_\_\_\_

% Solids for Duplicate: \_\_\_\_\_

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	20	3440	-	3279	-	4.9	-	l
Antimony	1.5	1.23	-	0.16	u	-	-	l
Arsenic	20	72.06	-	71.94	-	0.2	-	l
Barium	20	358	-	350	-	2.3	-	l
Beryllium	20	0.609	-	0.602	-	1.2	-	l
Cadmium	0.5	-0.025	u	-0.018	u	-	-	l
Calcium	20	569	-	608	-	6.6	-	l
Chromium	20	4.76	-	4.24	-	11.6	-	l
Cobalt	20	1.46	-	1.25	-	15.5	-	l
Copper	20	13.1	-	11.8	-	10.4	-	l
Iron	20	3170	-	1762	-	57.1	*	l
Lead	20	205	-	165	-	21.6	*	l
Magnesium	20	168	-	171	-	1.8	-	l
Manganese	20	17.8	-	14.0	-	23.9	*	l
Mercury	20	1.58	-	1.45	-	8.6	-	l
Nickel	10	3.47	-	2.64	-	27.2	*	l
Potassium	20	383	-	373	-	2.6	-	l
Selenium	20	15.0	-	17.0	-	12.5	-	l
Silver	1.0	0.066	u	-0.095	u	-	-	l
Sodium	20	87.0	-	88.1	-	1.3	-	l
Thallium	20	-0.728	u	-0.020	u	-	-	l
Vanadium	20	9.4	-	8.62	-	8.7	-	l
Zinc	20	87.9	-	56.5	-	43.5	*	l
Cyanide			-		-		-	l

0039

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2W3324W

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 199

Level: (low/med) low Date Received: 03 10/1/94

% Moisture: not dec. 0 Date Analyzed: 03 10/1/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
-----NA-----	Light hydrocarbons(C2-C10)	<u>4.0</u>	<u>u</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

0040

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVSPK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2W5324WS

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 200

Level: (low/med) low Date Received: 03 10/1/94

% Moisture: not dec. 0 Date Analyzed: 03 10/1/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
----NA----	Light hydrocarbons (C2-C10)	<u>2090</u>	<u>Q</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID



## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-06125  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3559WS  
 Sample wt/vol: 5.15 (g/mL) g Lab File ID: 203  
 Level: (low/med) low Date Received: 02/17/94  
 % Moisture: not dec. 11.2 Date Analyzed: 03/10/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: NA  
 Soil Extract Volume: NA 5000 (uL) Soil Aliquot Volume: 50 ~~NA~~ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons (C2-C10)	<u>417000</u>	<u>Q</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLT-05-06/MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3559WR  
 Sample wt/vol: 5.15 (g/mL) g Lab File ID: 202  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 11.2 Date Analyzed: 03/10/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: NA  
 Soil Extract Volume: NA 5000 (uL) Soil Aliquot Volume: 50 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
----NA----	Light hydrocarbons(C2-C10)		<u>387000</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

0043

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2W3322W

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 188

Level: (low/med) low Date Received: 03 10/194

% Moisture: not dec. 0 Date Analyzed: 03 10/194

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
-----NA-----	Light hydrocarbons (C2-C10)	<del>10</del> 4.0	u

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TVSPK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2W332WS

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 189

Level: (low/med) low Date Received: 03 10/194

% Moisture: not dec. 0 Date Analyzed: 03 10/194

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
----NA----	Light hydrocarbons (C2-C10)	<u>2170</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3560WS  
 Sample wt/vol: 0.54 (g/mL) g Lab File ID: 193  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 16.7 Date Analyzed: 03/18/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
----NA----	Light hydrocarbons(C2-C10)	<u>16700</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07msD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3560WR  
 Sample wt/vol: 0.50 (g/mL) g Lab File ID: 192  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 10.8 Date Analyzed: 03/01/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
<u>----NA----</u>	<u>Light hydrocarbons(C2-C10)</u>	<u>16200</u>	<u>Q</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: JM3557W

Sample wt/vol: 0.50 (g/mL) g Lab File ID: 190

Level: (low/med) low Date Received: 12/18/94

% Moisture: not dec. 25.5 Date Analyzed: 03/18/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons (C2-C10)	<del>0</del> 4.73	u

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CG529

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: Jm3558W

Sample wt/vol: 0.52 (g/mL) g Lab File ID: 191

Level: (low/med) low Date Received: 02/18/94

% Moisture: not dec. 25.5 Date Analyzed: 03/01/94

GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
----NA----	Light hydrocarbons (C2-C10)	<u>0.455</u>	<u>u</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID



EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-06  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3559W  
 Sample wt/vol: 5.15 (g/mL) g Lab File ID: 201  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 11.2 Date Analyzed: 03/01/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 100 NA  
 Soil Extract Volume: NA 5000 (uL) Soil Aliquot Volume: 50 NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons (C2-C10)	<u>276000</u>	<u>Q</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3560W  
 Sample wt/vol: 0.55 (g/mL) g Lab File ID: 194  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 10.8 Date Analyzed: 03/18/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons(C2-C10)	<del>0</del> 4.30	u

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07D  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3561  
 Sample wt/vol: 0.51 (g/mL) g Lab File ID: 195  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 16.5 Date Analyzed: 03/18/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
----NA----	Light hydrocarbons (C2-C10)	<u>4.64</u>	<u>u</u>	

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

0052

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-03-08  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3562  
 Sample wt/vol: 0.51 (g/mL) g Lab File ID: 196  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 14.7 Date Analyzed: 03/01/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons(C2-C10)	<u>0.464</u>	<u>u</u>

\* Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

FORM I TVH

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3563  
 Sample wt/vol: 0.51 (g/mL) g Lab File ID: 198  
 Level: (low/med) low Date Received: 02/18/94  
 % Moisture: not dec. 7.2 Date Analyzed: 03/10/94  
 GC Column: \* See Below ID: 2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
----NA----	Light hydrocarbons(C2-C10)	<u>0</u>	<u>4.64</u>
			<u>u</u>

Column used was 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

## TVH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: CLJ-DS-06MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	<u>204000</u> <del>204000</del>	<u>276000</u>	<u>417000</u>	<u>69.0</u>	30-130 30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Light hydrocarbons(C2-C10)	<u>204000</u>	<u>387000</u>	<u>54.4</u>	<u>7.25</u>	30	30-130

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

\* Values outside of QC limits

RPD: 0 out of 1 outside limitsSpike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_

## TVH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: CLJ-03-07MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	19400	<del>16700</del> 0	16700	85.7	30-130 30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Light hydrocarbons(C2-C10)	19400	16200	83.5	2.84	30	30-130

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

\* Value's outside of QC limits

RPD: 0 out of 1 outside limitsSpike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_

## TVH BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: TVBLK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Light hydrocarbons (C2-C10)	2100	0	2070	99.5	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_



TVH BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Blank Spike - EPA Sample No.: ~~TVSPK01~~  
TVSPK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Light hydrocarbons(C2-C10)	2100	0	2170	103	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_

TVH METHOD BLANK SUMMARY

Lab Name: ASC Contract: NEESA TVBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab Sample ID: N2W3324WS Lab File ID: 200

Matrix: (soil/water) soil Extraction: (SepF/Cont/Sonc) NA

Sulfur Cleanup: (Y/N) YN Date Extracted: 03-01-94

Date Analyzed (1): 03-01-94 Date Analyzed (2): \_\_\_\_\_

Time Analyzed (1): 7:00 1:00 Time Analyzed (2): \_\_\_\_\_

Instrument ID (1): 04 Instrument ID (2): \_\_\_\_\_

GC Column (1): See Below ID: 2 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CLJ-DS-06	Jm3559W	03-01-94	
02	CLJ-DS-06MS	Jm3539WS	03-01-94	
03	CLJ-DS-06MSD	Jm3559WR	03-01-94	
04	<del>TVH</del> TVSPK01	N2W3324WS	03-01-94	
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

EPA SAMPLE NO.

TVH METHOD BLANK SUMMARY

TVBLK01

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab Sample ID: N2W3322W Lab File ID: 188  
 Matrix: (soil/water) soil Extraction: (SepF/Cont/Sonc) NA  
 Sulfur Cleanup: (Y/N) XN Date Extracted: NA  
 Date Analyzed (1): 03-01-94 Date Analyzed (2): 03/01/94  
 Time Analyzed (1): 1003 Time Analyzed (2): 1003  
 Instrument ID (1): 04 Instrument ID (2): 04  
 GC Column (1): See Below ID: 2 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	<u>C6528</u>	<u>Jm3557W</u>	<u>03/01/94</u>	
02	<u>C6529</u>	<u>Jm3558W</u>		
03	<u>CLJ-DS-07</u>	<u>Jm3560W</u>		
04	<u>CLJ-DS-07D</u>	<u>Jm3561W</u>		
05	<u>CLJ-DS-08</u>	<u>Jm3562W</u>		
06	<u>CLJ-DS-09</u>	<u>Jm3563W</u>		
07	<u>CLJ-DS-07MS</u>	<u>Jm3560WS</u>		
08	<u>CLJ-DS-07MSD</u>	<u>Jm3560WR</u>		
09	<u>TVGPK01</u>	<u>N2W3322WS</u>		
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: 8' glass packed with 5% SP1200/1.75% Bentone 34, 2 mm ID

TVH INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 04 Calibration Date (s): 01-13-94  
 Calibration Time (s): 2124

LAB FILE ID: \_\_\_\_\_ CLOW = 204 CMEDL = 205  
 CMED = 206 CMEDH = 207 CHIGH = 208

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Light hydrocarbons (C2-C10)	<u>2440000</u>	<u>1890000</u>	<u>2050000</u>	<u>1970000</u>	<u>1890000</u>	<u>2050000</u>	<u>11.2</u>

TVH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: D4 Calibration Date: 03-01-94 Time: 0823  
 Lab File ID: 186 Initial Calib Date(s): 01-16-94  
 Initial Calib Times: 2124

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons (C2-C10)	<u>2050000</u>	<u>1790000</u>	<u>NA</u>	<u>12.7</u>	<u>15</u>

TVH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 04 Calibration Date: 03-21-94 Time: 1634  
 Lab File ID: 197 Initial Calib Date(s): 01-13-94  
 Initial Calib Times: 2124

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Light hydrocarbons(C2-C10)	<u>2050000</u>	<u>1940000</u>	<u>NA</u>	<u>5.16</u>	<u>15</u>

TVH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 04 Calibration Date: 03-01-94 Time: 2135  
 Lab File ID: 204 Initial Calib Date(s): 01-13-94  
 Initial Calib Times: 2124

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Light hydrocarbons(C2-C10)	2056000	1940000	NA	5.49	15

22.447 124713 8Y .348 1.42438  
23.823 30415 VV .246 .34736

0064

TOTAL AREA=8.7561E+06  
MUL FACTOR=1.0000E+00

\* RUN # 190 MAR 1, 1994 11:29:00  
START

IF  
1.295  
1.699

CG528  
JM3557W  
NZW3322

ND

C.P.

TIMETABLE STOP

RUN# 190 MAR 1, 1994 11:29:00

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	8277	PP	.090	35.51294
	1.699	15030	VB	.058	64.48707

TOTAL AREA= 23307  
MUL FACTOR=1.0000E+00

\* RUN # 191 MAR 1, 1994 12:11:57  
START

IF  
1.307  
1.710

JM3558W



RUN# 190 MAR 1, 1994 11:29:00

0065

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	8277	PP	.090	35.51294
	1.699	15030	VB	.058	64.48707

TOTAL AREA= 23307  
MUL FACTOR=1.0000E+00

\* RUN # 191 MAR 1, 1994 12:11:57

START

IF  
1.387  
1.710

13.895  
14.730  
16.000  
16.652  
17.670

24.603

*06529  
JM3558W  
N2W3322  
EA=66522*

TIMETABLE STOP

RUN# 191 MAR 1, 1994 12:11:57

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.387	7534	PB	.092	3.25817
	1.710	22105	PB	.052	9.55958
	13.895	33355	VV	.351	14.42478
	14.730	33167	VV	.315	14.34348
	16.000	33903	VV	.275	14.66177
	16.652	83125	YP	.398	35.94843
	17.670	9627	PB	.203	4.16332
	24.603	8418	PP	.487	3.64847

TOTAL AREA= 231234  
MUL FACTOR=1.0000E+00

\* RUN # 192 MAR 1, 1994 12:54:44

START

IF

0.724

17.670

24.603

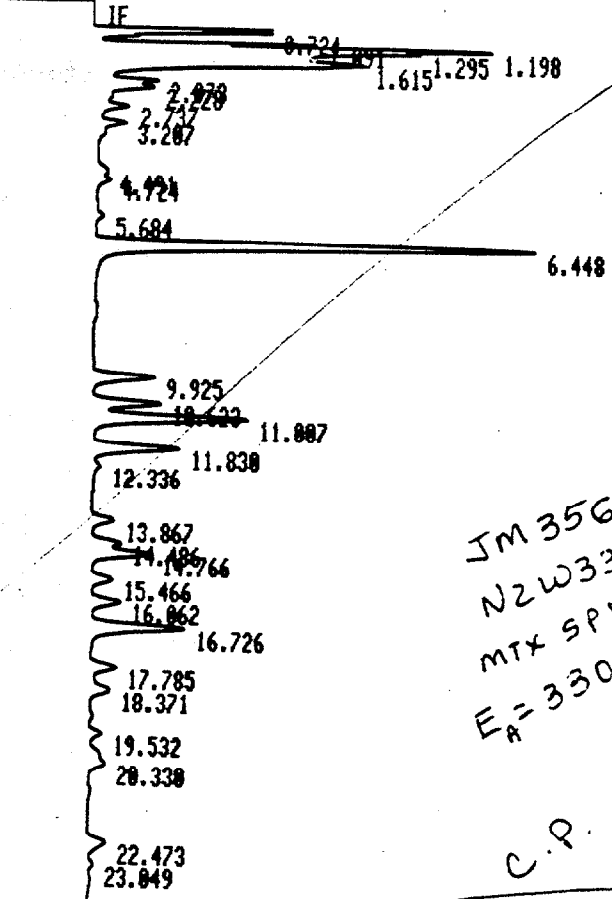
TIMETABLE STOP

RUN# 191 MAR 1, 1994 12:11:57

RT	AREA	TYPE	WIDTH	AREA%
1.307	7534	PB	.092	3.25817
1.710	22105	PB	.052	9.55958
13.895	33355	VV	.351	14.42478
14.730	33167	VV	.315	14.34348
16.000	33903	VV	.275	14.66177
16.652	83125	VP	.398	35.94843
17.670	9627	PB	.203	4.16332
24.603	8418	PP	.487	3.64047

TOTAL AREA= 231234  
MUL FACTOR=1.0000E+00

\* RUN # 192 MAR 1, 1994 12:54:44  
START



JM 3560WS  
N2W3322  
MTX SPK DUP  
E=3308669

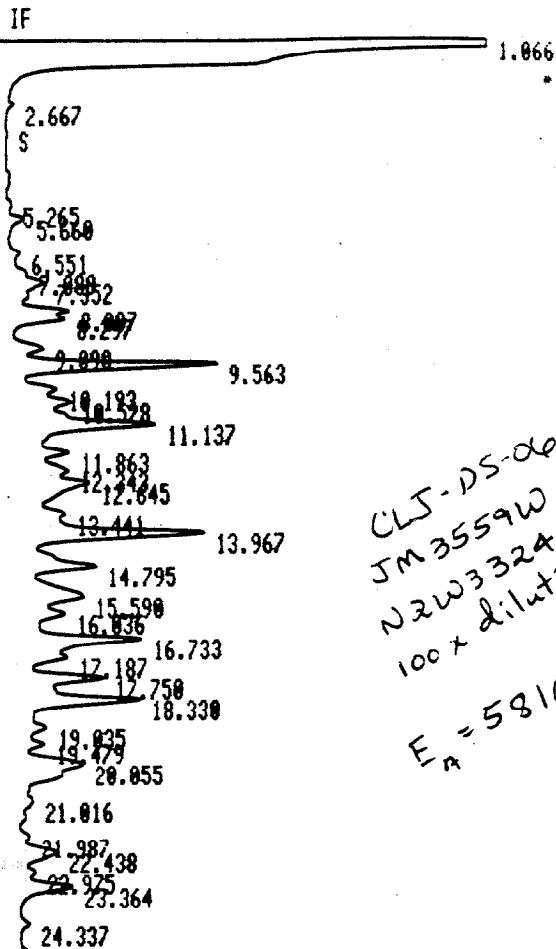
C.P.

TIMETABLE STOP

RUN# 192 MAR 1, 1994 12:54:44

\* RUN # 201 MAR 1, 1994 19:26:25

START



TIMETABLE STOP

RUN# 201 MAR 1, 1994 19:26:25

AREA%

RT	AREA	TYPE	WIDTH	AREA%
1.066	6451162	SBB	.181	38.94890
2.667	8241	TBB	.106	.04976
5.265	20614	VV	.254	.12446
5.660	69149	VV	.276	.41749
6.551	59757	VV	.338	.36078
7.089	64402	VV	.227	.38883
7.352	172215	VV	.335	1.03975
7.887	201693	VV	.235	1.21772
8.297	188956	VV	.237	1.14082
8.890	153219	VV	.315	.92506
9.563	758582	VV	.258	4.57994
10.193	202465	VV	.306	1.22238
10.528	261293	VV	.305	1.57756
11.137	892744	VV	.434	5.38995
11.863	259922	VV	.317	1.56928
12.343	283430	VV	.349	1.71121
12.645	552107	VV	.498	3.33335
13.441	245478	VV	.324	1.48207
13.967	927120	VV	.342	5.59749
14.795	495105	VV	.417	2.98920
15.590	519418	VV	.521	3.13599
16.036	278659	VV	.378	1.68240
16.733	646577	VV	.356	3.90371
17.187	225441	VV	.297	1.36110
17.750	363558	VV	.288	2.19498
18.330	617849	VV	.348	3.73026

23.364  
24.337

TIMETABLE STOP

0068

RUN# 201 MAR 1, 1994 19:26:25

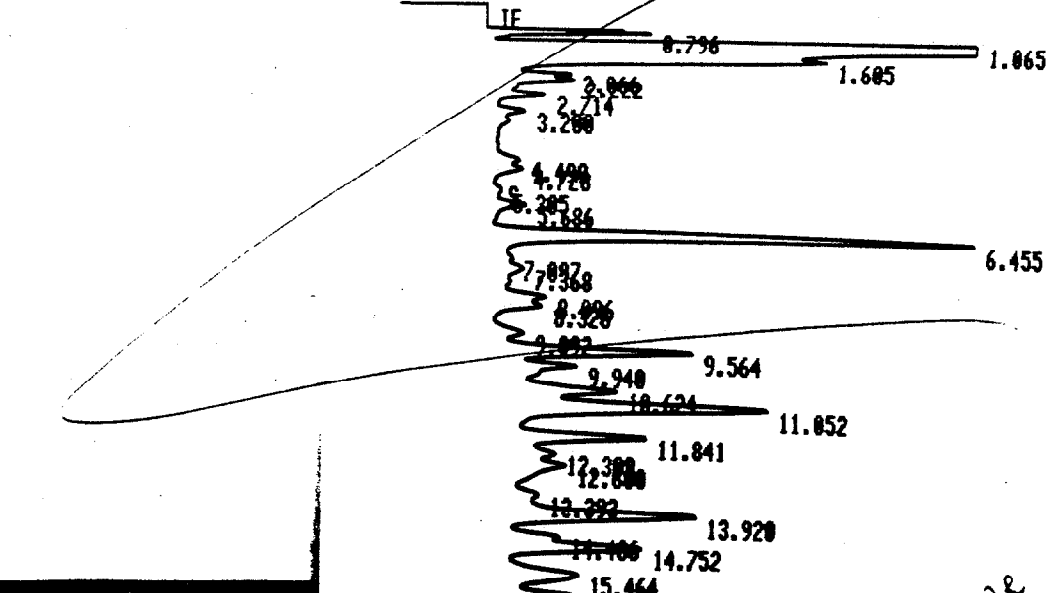
AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.066	6451162	SBB	.181	38.94890
2.667	8241	TBB	.106	.04976
5.265	20614	VV	.254	.12446
5.660	69149	VV	.276	.41749
6.551	59757	VV	.338	.36078
7.089	64402	VV	.227	.38803
7.352	172215	VV	.335	1.03975
8.087	201693	VV	.235	1.21772
8.297	188956	VV	.237	1.14082
9.090	153219	VV	.315	.92506
9.563	758582	VV	.258	4.57994
10.193	202465	VV	.306	1.22238
10.528	261293	VV	.305	1.57756
11.137	892744	VV	.434	5.38995
11.863	259922	VV	.317	1.56928
12.343	283430	VV	.349	1.71121
12.645	552107	VV	.498	3.33335
13.441	245478	VV	.324	1.48207
13.967	927120	VV	.342	5.59749
14.795	495105	VV	.417	2.98920
15.590	519418	VV	.521	3.13599
16.036	278659	VV	.378	1.68240
16.733	646577	VV	.356	3.90371
17.187	225441	VV	.297	1.36110
17.750	363558	VV	.288	2.19498
18.330	617849	VV	.348	3.73026
19.035	151268	VV	.338	.91328
19.479	115413	VV	.279	.69681
20.055	608773	VV	.637	3.67547
21.016	96151	VV	.392	.58051
21.987	51984	VV	.289	.31385
22.438	231217	VV	.416	1.39597
22.975	63549	VV	.249	.38368
23.364	261046	VV	.333	1.57607
24.337	64596	VV	.395	.39000

TOTAL AREA=1.6563E+07  
MUL FACTOR=1.0000E+00

\* RUN # 202 MAR 1, 1994 20:09:19

START



14.493	73722	VV	.192	.95881
14.775	286220	VV	.231	2.68206
15.458	73194	VV	.229	.95195
16.043	100724	VP	.226	1.31000
16.690	327565	PB	.232	4.26025
17.734	94873	BV	.250	1.23390
18.315	91767	VB	.290	1.19350
19.459	43002	PV	.220	.55928
20.250	150760	VV	.513	1.96076
20.984	90996	VV	.731	1.18348
22.385	92716	VV	.336	1.20585
22.959	21267	VV	.247	.27659

0069

TOTAL AREA=7688874  
 MUL FACTOR=1.0000E+00

\* RUN # 194      MAR 1, 1994 14:20:34  
 START

IF  
 1.295

CLJ-DS-07  
 JM3560W  
 NZW3322

ND  
 C.P.

19.938  
 21.046

TINETABLE STOP

RUN# 194      MAR 1, 1994 14:20:34

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	7538	PP	.087	4.11241
	19.938	24253	PV	.425	13.23138
	21.046	151508	VV	1.160	82.65622

TOTAL AREA= 183299  
 MUL FACTOR=1.0000E+00

\* RUN # 195      MAR 1, 1994 15:03:30  
 START

IF

NZW3322

0070

ND  
C.P.

19.938  
21.046

TINETABLE STOP

RUN# 194 MAR 1, 1994 14:20:34

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	7538	PP	.087	4.11241
	19.938	24253	PV	.425	13.23138
	21.046	151508	VV	1.160	82.65622

TOTAL AREA= 183299  
MUL FACTOR=1.0000E+00

\* RUN # 195 MAR 1, 1994 15:03:30  
START

IF  
1.295  
1.700

IM 3561W  
NZW3322

ND  
C.P.

20.424  
21.117

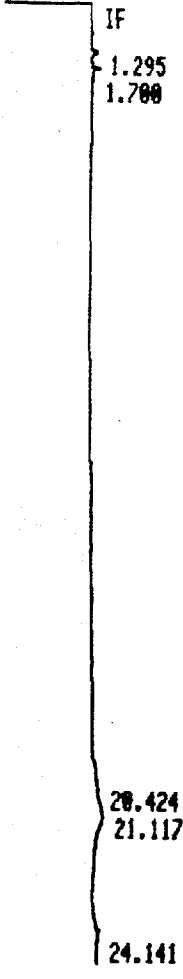
TIMETABLE STOP

RUN# 194 MAR 1, 1994 14:20:34

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	7538	PP	.087	4.11241
	19.938	24253	PV	.425	13.23138
	21.046	151508	VV	1.160	82.65622

TOTAL AREA= 183299  
MUL FACTOR=1.0000E+00

\* RUN # 195 MAR 1, 1994 15:03:30  
START



CLJ-DS-07D  
 JM 3561W  
 NZW332Z  
 ND  
 C.P.

TIMETABLE STOP

RUN# 195 MAR 1, 1994 15:03:30

AREA#	RT	AREA	TYPE	WIDTH	AREA#
	1.295	8308	PP	.091	3.53601
	1.700	9031	VB	.071	3.84373
	20.424	57895	PV	.685	24.64099
	21.117	143622	VV	.989	61.12771
	24.141	16098	PV	.230	6.85156

TOTAL AREA= 234954  
MUL FACTOR=1.0000E+00

\*  
\*  
\*  
\*  
\*

RUN # 196      MAR 1, 1994 15:51:46  
START

IF  
1.313, 1.701

11.115

14.790

19.885

23.801  
24.341

CLJ-DS-08  
JM3562W  
N2W3322  
EA=69402

C.P.

TIMETABLE STOP

RUN# 196      MAR 1, 1994 15:51:46

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.313	10086	VP	.114	2.48353
1.701	47385	PB	.057	11.66788
11.115	27981	BP	.274	6.88992
14.790	41421	VV	.464	10.19933
19.885	61725	VV	.504	15.19890
23.801	105228	VV	.585	25.91089
24.341	112289	VV	.501	27.64955

TOTAL AREA= 406115  
MUL FACTOR=1.0000E+00



\* RUN # 198

MAR 1, 1994 17:17:35

0073

START

IF

1.290  
1.689

CLJ-D-09  
JM3563W  
N2W3322  
ND

TIMETABLE STOP

RUN# 198

MAR 1, 1994 17:17:35

AREA#

RT	AREA	TYPE	WIDTH	AREA#
1.290	10408	BP	.091	29.87714
1.689	24428	PB	.053	70.12285

TOTAL AREA= 34836  
MUL FACTOR=1.0000E+00

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TEBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2F40170F

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 159533/559

% Moisture: N/A decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: N/A Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	<u>Q</u>
<u>--NA-----</u>	<u>Medium hydrocarbons (C10-C21)</u>	<u>3,300</u>	<u>U</u>
<u>--NA-----</u>	<u>Heavy hydrocarbons (C21-C40)</u>	<u>2,350</u>	<u>J</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA TESK 01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: ~~AB~~ NQF40170FS

Sample wt/vol: 30. (g/mL) g Lab File ID: 789534/540

% Moisture: NA decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: N/A Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>20200</u>	<u>u</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>16,600</u>	<u>u</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA 6528MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3559FS  
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: ~~153552~~ 59361502  
 % Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94  
 Injection Volume: 1.0 (uL) Dilution Factor: X100  
 GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)		<u>618000</u>
--NA-----	Heavy hydrocarbons (C21-C40)		<u>3050000</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C165280SD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: Jm3557FR

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 159537/523

% Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: x 100

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>372000</u>	<u>    </u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>1670000</u>	<u>    </u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: JM3557

Sample wt/vol: 30.3 (g/mL) g Lab File ID: S9535/541

% Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>482000</u>	<u>Q</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2360000</u>	<u>Q</u>

*Handwritten notes:*  
 $2842 \text{ } 000 \text{ } \mu\text{g/kg}$   
 $2842 \text{ } \mu\text{g/kg}$   
 $0.5\%$

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA 66529

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: JM3558

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 159539/565

% Moisture: 25 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>		Q
<u>--NA-----</u>	<u>Medium hydrocarbons(C10-C21)</u>	<u>9700</u>	<u>90800</u>	
<u>--NA-----</u>	<u>Heavy hydrocarbons(C21-C40)</u>			

*100500 ug/kg*  
*0.01*

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ15-66

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: J113559

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 759540/566

% Moisture: 11.2 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: x50

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>.344000</u>	<u>Q</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2180000</u>	<u>Q</u>

2524000 ug/kg  
2524 mg/kg  
0.2%



EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: Ju3500

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 159541567

% Moisture: 10.8 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: x 10

GPC Cleanup: (Y/N) N pH:      Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>58100</u>	<u>    </u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>199000</u>	<u>    </u>

257.00 mg/kg  
0.02

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA (LJDS 071)

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: JM3561

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 159542/568

% Moisture: 16.5 decanted: (Y/N)      Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
<u>---NA-----</u>	<u>Medium hydrocarbons(C10-C21)</u>	<u>27800</u>	<u>    </u>
<u>---NA-----</u>	<u>Heavy hydrocarbons(C21-C40)</u>	<u>103000</u>	<u>    </u>

130.800 ug/kg  
0.01%

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA LJ-DS-08

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: JM3562

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 159543/569

% Moisture: 14.7 decanted: (Y/N) N Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1 50

GPC Cleanup: (Y/N) N pH: NA Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>137000</u>	<u>J</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>2150000</u>	

*Handwritten notes:*  
~~2287000 ug/kg~~  
 2287 mg/kg  
 0.2%

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: TU3523

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 15995 35954/570

% Moisture: 7.2 decanted: (Y/N)      Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) Soxh Date Extracted: 03/02/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/04/94

Injection Volume: 1.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: N/A Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
--NA-----	Medium hydrocarbons (C10-C21)	<u>3310</u>	<u>u</u>
--NA-----	Heavy hydrocarbons (C21-C40)	<u>4570</u>	<u>J</u>

*Handwritten notes:*

< 7880 mg/kg

< 7.9 mg/kg

< 8 mg/kg

< 0.0008%

## TEH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01Matrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Med hydrocarbons (C10-C21)	<u>27600</u>	<u>482000</u>	<u>618000</u>	<u>495</u>	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Med hydrocarbons (C10-C21)	<u>27600</u>	<u>* 372000</u>	<u>0</u>	<u>49.8</u>	30	30-130

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

\* Values outside of QC limits

RPD: 1 out of 1 outside limitsSpike Recovery: 1 out of 1 outside limitsCOMMENTS: Sample at high concentration, had to  
perform at 10X dilution

## TEH BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01Blank Spike - EPA Sample No.: TEBLK01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Med hydrocarbons (C10-C21)	28000	2350 (J)	20250	63.8	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_

TEH METHOD BLANK SUMMARY

Lab Name: ASC Contract: NEESA TEBLK0/

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab Sample ID: N2F40170F Lab File ID: 159533/559

Matrix: (soil/water) soil Extraction: (SepF/Cont/Sonc) \_\_\_\_\_

Sulfur Cleanup: (Y/N) Y Date Extracted: 03/02/94

Date Analyzed (1): 03/04/94 Date Analyzed (2): NA

Time Analyzed (1): 1000 Time Analyzed (2): NA

Instrument ID (1): B1F Instrument ID (2): NA

GC Column (1): DB-5 ID: .53(mm) GC Column (2): NA ID: NA (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	C6528	JM3557	3/4/94	NA
02	C6528MS	JM3557S	↓	↓
03	C6528MSD	JM3557HR		
04	C6529	JM3558		
05	CLJ-DS-06	JM3559		
06	CLJ-DS-07	JM3560		
07	CLJ-DS-07D	JM3561		
08	CLJ-DS-08	JM3562		
09	CLJ-DS-09	JM3563		
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: \_\_\_\_\_

## TEH INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date (s): 12/16/94  
 Calibration Time (s): 1623 19:53

LAB FILE ID: CLOW = 159424/368 CMEDL = 159425/369  
 CMED = 159426/370 CMEDH = 159427/371 CHIGH = 159428/372

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Medium hydrocarbons (C10-21)	<u>14400</u>	<u>16800</u>	<u>18700</u>	<u>19200</u>	<u>20100</u>	<u>17800</u>	<u>12.8</u>
Heavy hydrocarbons (C21-C40)	<u>29800</u>	<u>26200</u>	<u>37000</u>	<u>35300</u>	<u>36900</u>	<u>33100</u>	<u>14.6</u>



TEH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date: 3/4/94 Time: 07.39  
 Lab File ID: 5581316 Initial Calib Date(s): 2/16/94  
 Initial Calib Times: 16:23 19:53

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	17800	16100	NA	9.91	
Heavy hydrocarbons (C21-C40)	33000	28000	NA	15.2	

## TEH CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: B1F Calibration Date: 3-4-94 Time: 14:19  
 Lab File ID: 159538/564 Initial Calib Date(s): 2/16/94  
 Initial Calib Times: 16.23 19.53

COMPOUND	$\overline{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	<u>17800</u>	<u>16800</u>	NA	<u>95.68</u>	
Heavy hydrocarbons (C21-C40)	<u>33100</u>	<u>34400</u>	NA	<u>4.00</u>	

TEH CONTINUING CALIBRATION CHECK

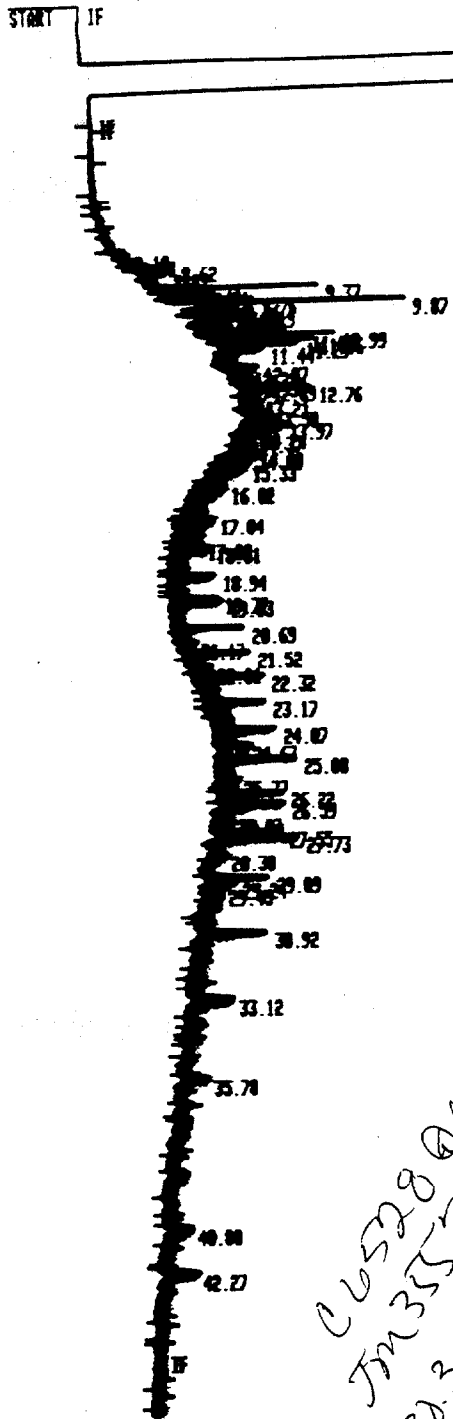
Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: B1F Calibration Date: 03/04/94 Time: 2025

Lab File ID: 791545/571 Initial Calib Date(s): 02/16/94  
 Initial Calib Times: 1623 1953

COMPOUND	$\bar{CF}$	CMED	MIN CF	% D	MAX % D
Medium hydrocarbons (C10-C21)	<u>17800</u>	<u>16800</u>	NA	<u>5.65</u>	
Heavy hydrocarbons (C21-C40)	<u>33100</u>	<u>34300</u>	NA	<u>3.80</u>	



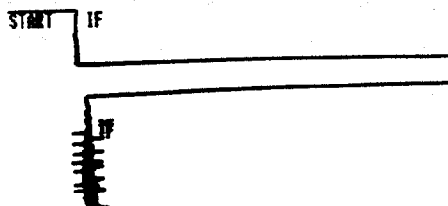
*Handwritten notes:*  
 C6528 @ 10/14  
 Jm 3557  
 Ba.3 → 1.0  
 Peak = 147

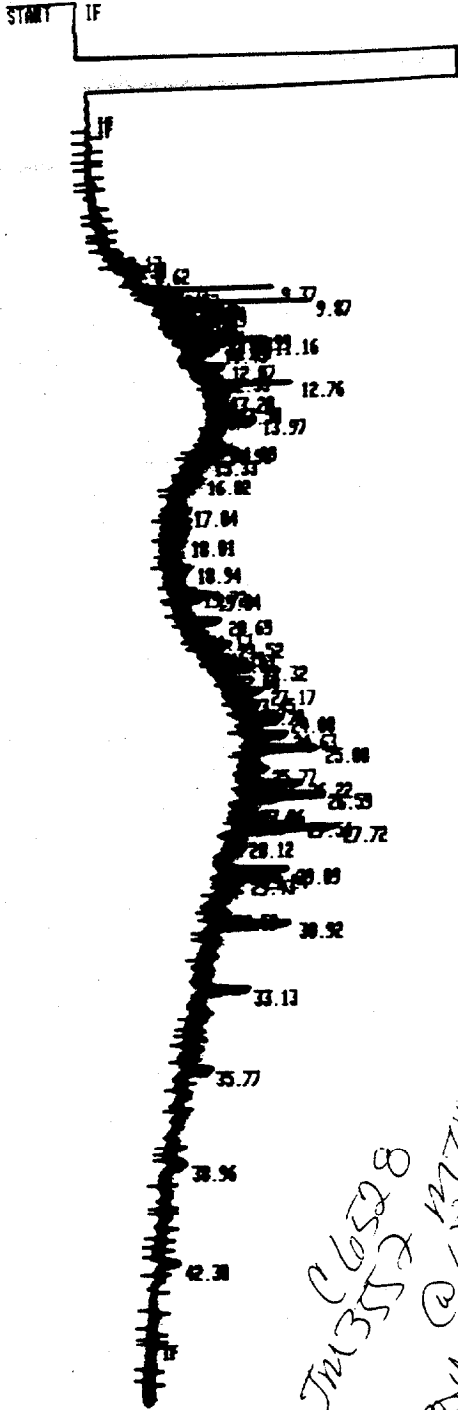
RUN # 561  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 3

NOR/04/94 11:43:58

AREA2	RT	AREA TYPE	AR/HT	AREA2
	12.61	2611200 ++	0.045	45.586
	30.87	3116800 ++	0.069	54.414

TOTAL AREA= 5728000  
 MUL FACTOR= 1.0000E+00





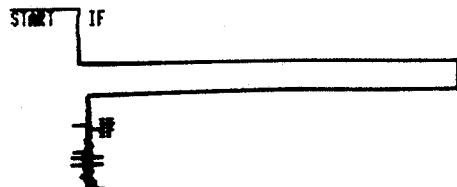
*C 60528  
 JM3552  
 @ 100%  
 249 71.0ml  
 Mod: 168*

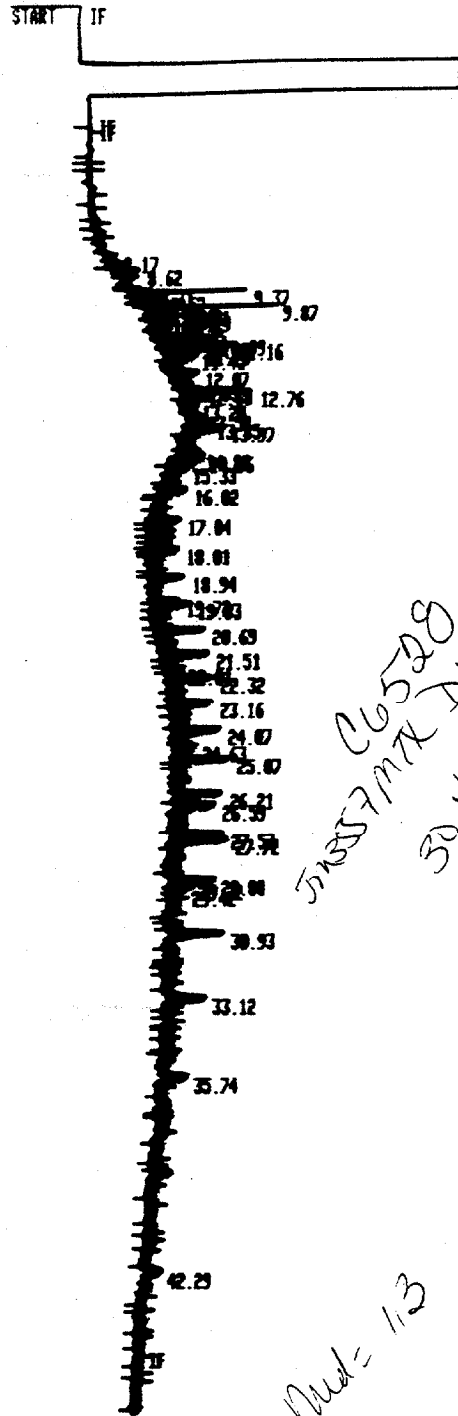
RUN # 562  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 4

MAR/04/94 12:35:48

AREA#	RT	AREA TYPE	AR/MT	AREA2
	12.60	1777500 ++	0.045	34.672
	30.15	3349100 ++	0.000	65.328

TOTAL AREA= 5126600  
 MUL FACTOR= 1.0000E+00





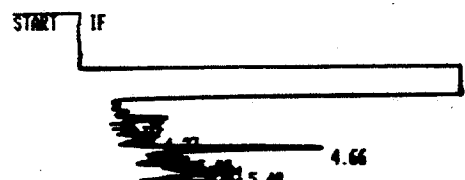
*Handwritten notes:*  
 06528  
 7MS57M7X DUP @100X  
 30.49 → 1.0ml

*Handwritten note:*  
 Peak = 113

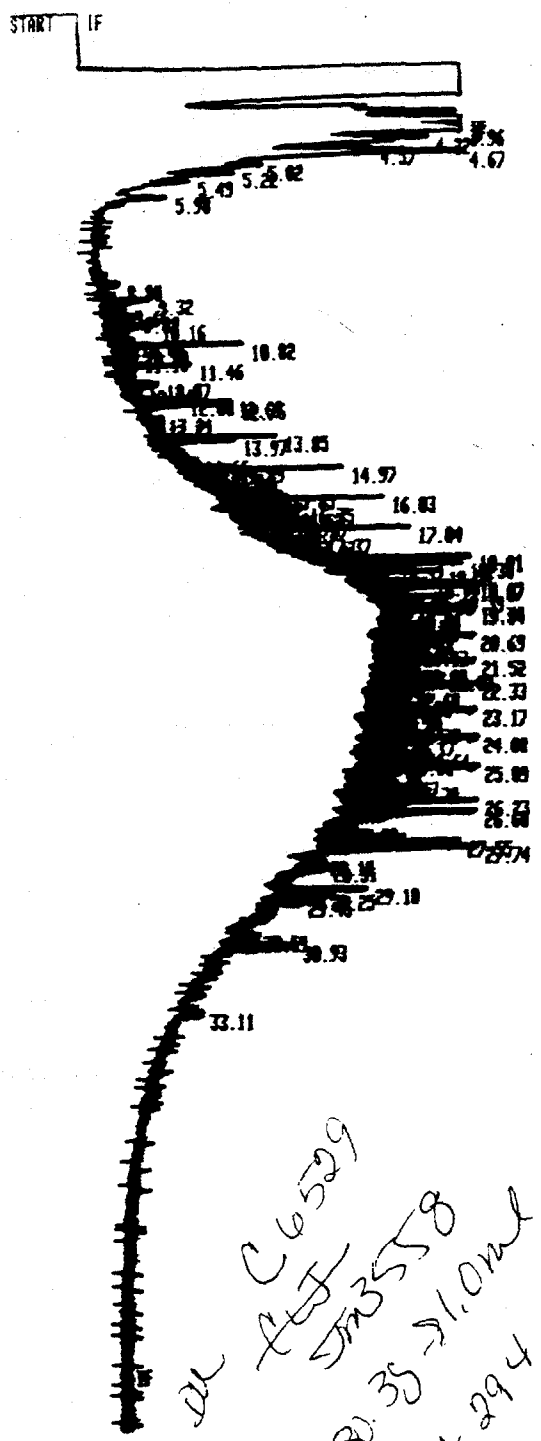
RUN # 563                      MAR/04/94 13:27:30  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 5

AREA2	RT	AREA TYPE	AR/HT	AREA2
	12.60	1579000 ++	0.045	43.999
	30.15	2809000 ++	0.068	56.001

TOTAL AREA= 3500000  
 MUL FACTOR= 1.0000E+00



0095

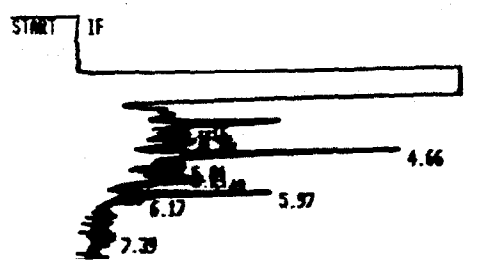


RUN # 565  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 1

MAR/04/94 15:14:37

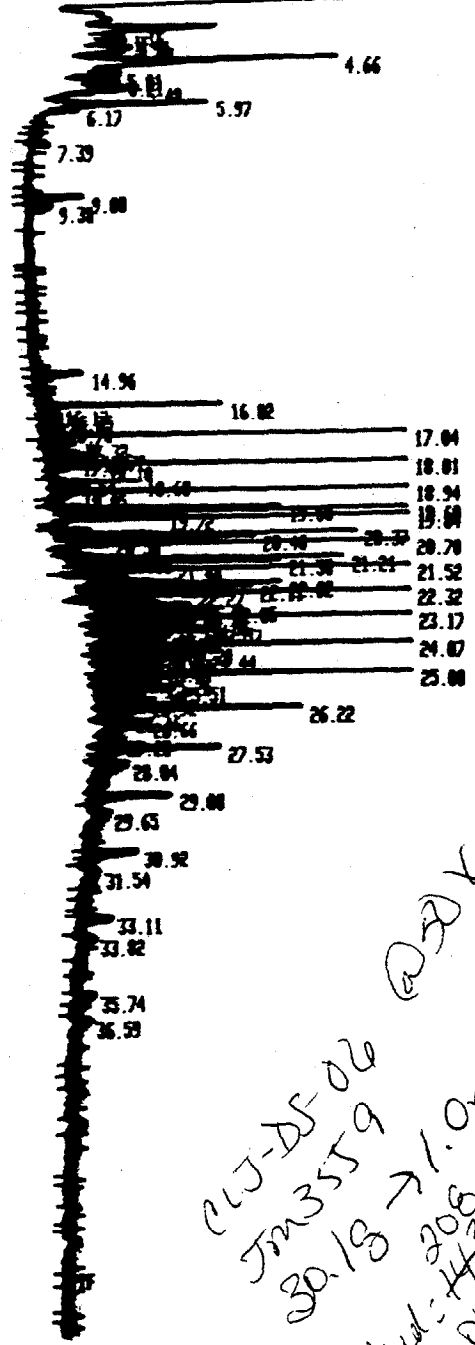
AREA2	RT	AREA TYPE	AR/NT	AREA2
	18.58	5241200 ++	0.858	21.629
	25.24	1.8992E+07 ++	0.858	78.371

TOTAL AREA= 2.4233E+07  
 MIN. FACTOR= 1.0000E+00



START IF

0096



*Handwritten notes:*  
 013-DS-026 @ADY  
 JM3559  
 30.18 → 1.0ml  
 308  
 308  
 3-11-94

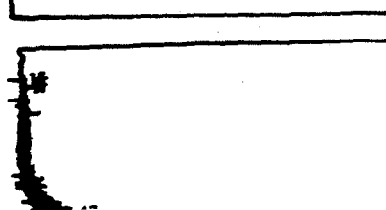
RUN # 566  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 2

MAR/04/94 16:06:19

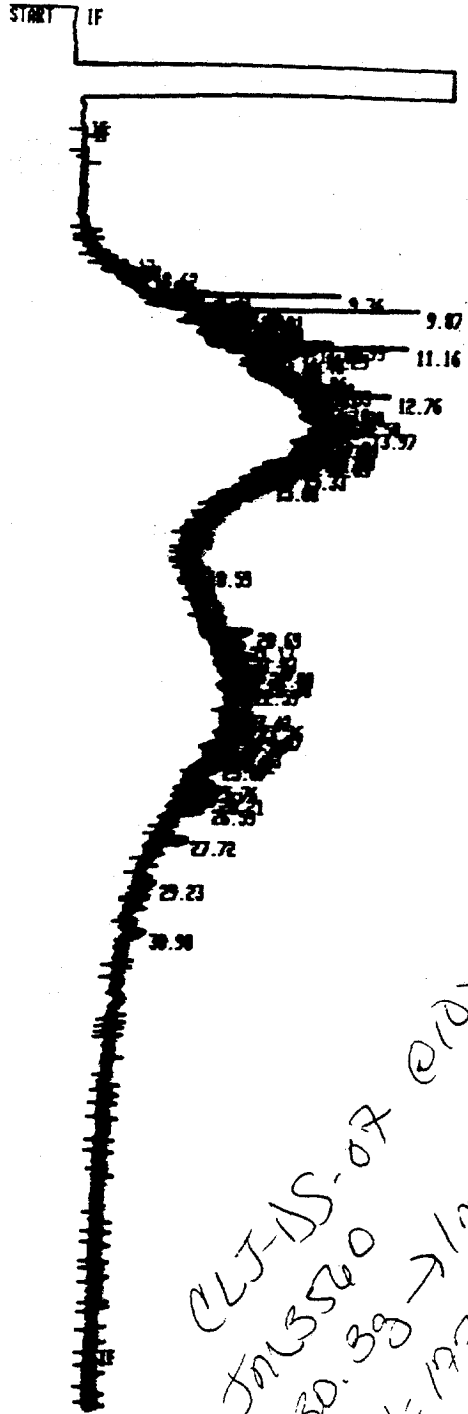
AREA	RT	AREA TYPE	AR/HT	AREA
	10.51	3783700 ++	0.063	12.683
	26.95	2.5498E+07 0 ++	0.051	87.317

TOTAL AREA= 2.9201E+07  
 MUL FACTOR= 1.0000E+00

START IF







CLJ-15-07 @10x  
 JMS560 -> 1ml  
 Peak = 197

RUN # 567

MAR/04/94 16:58:07

WORKFILE ID: C

WORKFILE NAME:

SAMPLE # 3

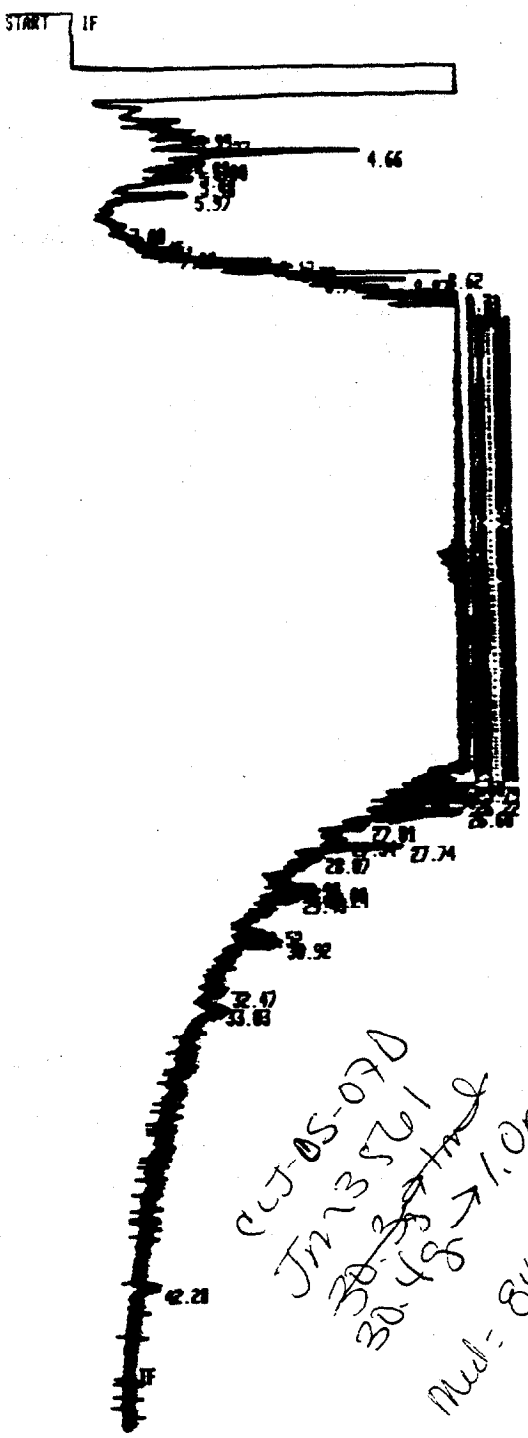
AREA2 RT	AREA TYPE	AR/HT	AREA2
11.92	314300 ++	0.844	67.642
24.74	1583900 ++	0.879	32.358

TOTAL AREA= 4647700

MUL FACTOR= 1.0000E+00



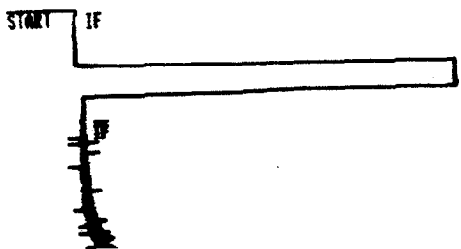
4.66  
 3.57



RUN # 568                      MAR/04/94 17:49:48  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 4

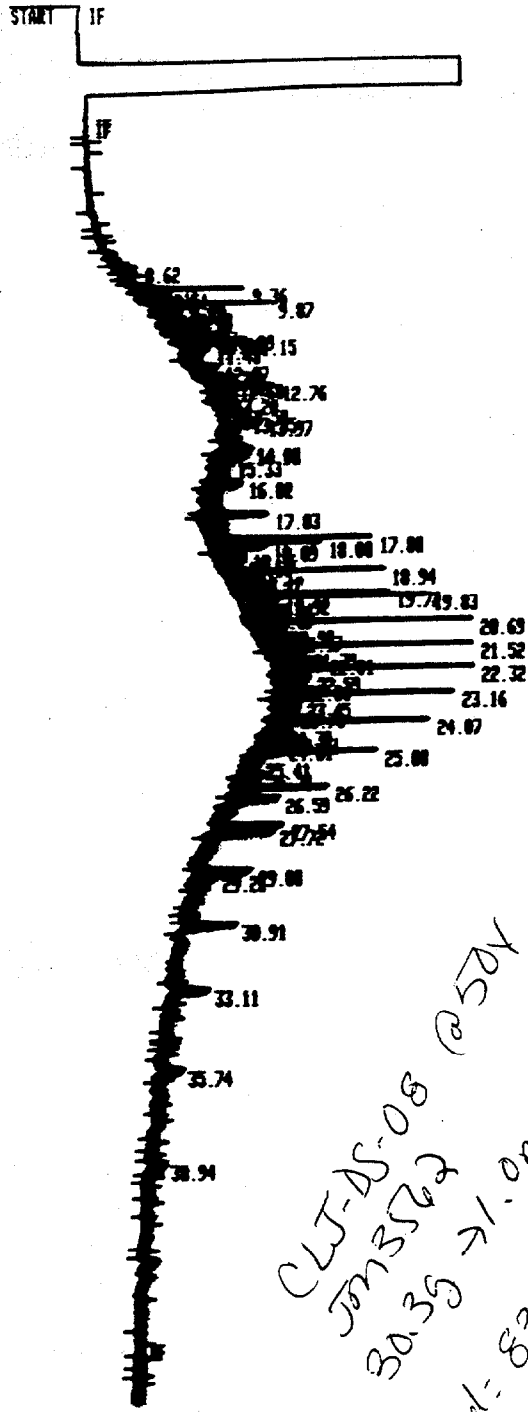
AREA2	RT	AREA TYPE	AR/HT	AREA2
	10.68	1.5068E+07 D ++	0.047	73.435
	29.82	5458908 D ++	0.059	26.565

TOTAL AREA= 2.0519E+07  
 MUL FACTOR= 1.0000E+00



TOTAL AREA= 2.0519E+07  
MUL FACTOR= 1.0000E+00

0099

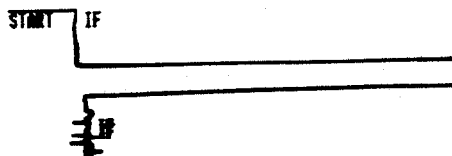


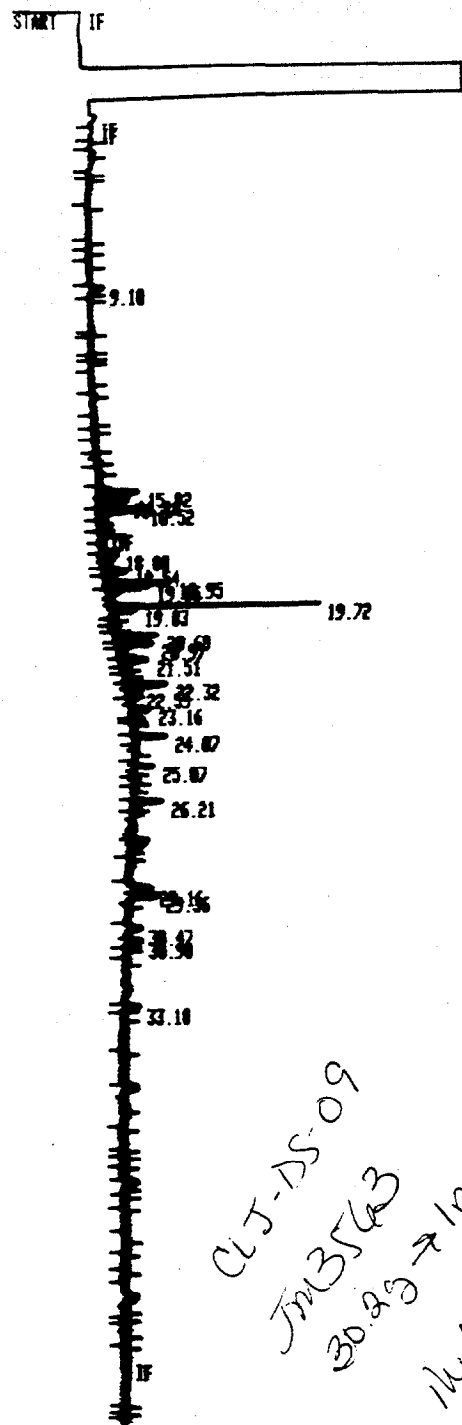
RUN # 569  
WORKFILE ID: C  
WORKFILE NAME:  
SAMPLE # 5

MAR/04/94 19:41:33

AREA2	RT	AREA	TYPE	AR/NT	AREA2
	12.82	1485500	++	0.043	20.068
	28.41	5633000	++	0.053	79.132

TOTAL AREA= 7118500  
MUL FACTOR= 1.0000E+00



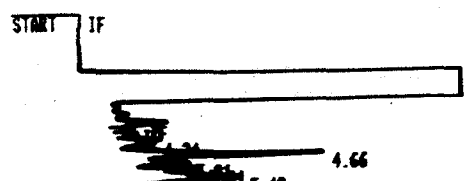


CLJ-DS-09  
 JM3563  
 30.23 -> 1ml  
 11ml = 13.4 (w)

RUN # 570                      MAR/04/94 19:33:16  
 WORKFILE ID: C  
 WORKFILE NAME:  
 SAMPLE # 6

AREA2	RT	AREA TYPE	AR/WT	AREA2
	12.81	238410 ++	0.046	14.528
	25.55	1483588 ++	0.653	85.488

TOTAL AREA= 1641900  
 MUL FACTOR= 1.0000E+00



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N2P40135P  
 Sample wt/vol: 30.0 (g/mL) 6 Lab File ID: ^Z4140  
 % Moisture: NA decanted: (Y/N) N Date Received: 2-18-94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 2-27-94  
 Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3-22-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	6.67	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	133	↓
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA PSPK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N2P4035PS  
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: ^Z4141  
 % Moisture: NA decanted: (Y/N) N Date Received: 2-18-94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 2-27-94  
 Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3-22-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
319-84-6	alpha-BHC	6.67	U
319-85-7	beta-BHC	↓	↓
319-36-8	delta-BHC	↓	↓
58-89-9	gamma-BHC (Lindane)	34.9	
76-44-8	Heptachlor	27.6	
309-00-2	Aldrin	32.3	
1024-57-3	Heptachlor epoxide	6.67	U
959-98-8	Endosulfan I	↓	U
60-57-1	Dieldrin	86.0	
72-55-9	4,4'-DDE	6.67	U
72-20-8	Endrin	93.3	
33213-65-9	Endosulfan II	6.67	U
72-54-8	4,4'-DDD	↓	U
1031-07-8	Endosulfan sulfate	↓	U
50-29-3	4,4'-DDT	89.3	
72-43-5	Methoxychlor	6.67	U
53494-70-5	Endrin ketone	↓	
7421-36-3	Endrin aldehyde	↓	
5103-71-9	alpha-Chlordane	↓	
5103-74-2	gamma-Chlordane	↓	U
8001-35-2	Toxaphene	133	U
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527MS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3564PS

Sample wt/vol: 30.3 (g/mL) G Lab File ID: ^24142

% Moisture: 20.2 decanted: (Y/N) N Date Received: 2-18-94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 2-27-94

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3-22-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0 <sup>DL</sup> 50.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/kg</u>
319-84-6	alpha-BHC	330	U
319-85-7	beta-BHC		
319-36-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	10,000	
72-43-5	Methoxychlor	330	U
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	6600	U
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

10  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527MSD

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: NA

Matrix: (soil/water) SOIL

Lab Sample ID: JM3564PR

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: AZ4143

% Moisture: 20.2 decanted: (Y/N) N

Date Received: 2-18-94

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 2-27-94

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 3-22-94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0 <sup>DL</sup> 50.0

GPC Cleanup: (Y/N) N

pH: 5

Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg Q

319-84-6	alpha-BHC	330	U
319-85-7	beta-BHC		
319-36-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	15,700	
72-43-5	Methoxychlor	330	U
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	60600	
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: 1M3564P  
 Sample wt/vol: 30.2 (g/mL) G Lab File ID: 1Z4144  
 % Moisture: 20.2 decanted: (Y/N) N Date Received: 2-18-94  
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 2-27-94  
 Concentrated Extract Volume: 2000 (uL) Date Analyzed: 3-22-94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0<sup>D5</sup> 50.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

319-84-6	alpha-BHC	331	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-96-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE	533	
72-20-8	Endrin	331	U
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT	24,500	
72-43-5	Methoxychlor	331	U
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	6620	U
12674-11-2	Aroclor-1016		
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

2F  
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 GC Column(1): DB-603 ID: .53 (mm) GC Column(2): DB-5 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PD16C1	58.0*	69.6	130	149			1
02	PS16C1	59.4*	69.6	135	151*			2
03	C6527MS	D	D	D	D			
04	C6527MSD	D	D	D	D			
05	C6527	D	D	D	D			
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
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17								
18								
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22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY  
QC LIMITS

TCX = Tetrachloro-m-xylene (60-150)  
 DCB = Decachlorobiphenyl (60-150)

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

PESTICIDE BLANK SPIKE RECOVERY

0107

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_

Blank Spike - EPA Sample No.: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)					56-120
Heptachlor	6.92	✓	7.76	112	40-131
Heptachlor Epoxide	9.32	✓	8.68	93.1	30-130
Toxaphene	316		360	114	30-130
Endrin	22.5	✓	27.2	119	30-130
Methoxychlor					30-130
gamma-Chlordane	23.4	✓	24.6	105	30-130
alpha-Chlordane	23.7	✓	25.6	108	30-130
					30-130
					30-103
					30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 8 outside limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

3F  
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix Spike - EPA Sample No.: C6527

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	47.4	Ø	Ø	Ø *	46-127
Heptachlor	37.2	Ø	Ø	Ø *	35-130
Aldrin	45.0	Ø	Ø	Ø *	34-132
Dieldrin	83.2	Ø	Ø	Ø *	31-134
Endrin	88.4	Ø	Ø	Ø *	42-139
4,4'-DDT	64.0	24,500	15,700 DL 10,000	Ø *	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
gamma-BHC (Lindane)	47.4	Ø	Ø *	NA *	50 46-127
Heptachlor	37.2	Ø	Ø *	*	31 35-130
Aldrin	45.0	Ø	Ø *	*	43 34-132
Dieldrin	83.2	Ø	Ø *	*	38 31-134
Endrin	88.4	Ø	Ø *	*	45 42-139
4,4'-DDT	64.0	15,700	Ø *	↓ *	50 23-134

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

\* Values outside of QC limits

RPD: 6 out of 6 outside limits  
 Spike Recovery: 12 out of 12 outside limits

COMMENTS: The <sup>MS</sup>MSD and MSD are diluted out <sup>due</sup> to a high level of the analyte being in the original sample.

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA PBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab Sample ID: NAP40135P Lab File ID: \_\_\_\_\_  
 Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC  
 Sulfur Cleanup: (Y/N) N Date Extracted: 2-27-94  
 Date Analyzed (1): 3-22-94 Date Analyzed (2): 3-22-94  
 Time Analyzed (1): 14:31 Time Analyzed (2): 15:16  
 Instrument ID (1): 1 Instrument ID (2): 2  
 GC Column (1): DB-608 ID: .53 (mm) GC Column (2): DB-5 ID: .53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	<u>PSPK01</u>	<u>NAP40135PS</u>	<u>3-22-94</u>	<u>3-22-94</u>
02	<u>C6527MS</u>	<u>JM3564PS</u>	↓	↓
03	<u>C6527MSD</u>	<u>JM3564PR</u>	↓	↓
04	<u>C6527</u>	<u>JM3564P</u>	↓	↓
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

60

## PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 1 Level (x low): low 1.00 mid 5.00 ~~2.50~~ SDL high 100  
 GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	11.42	11.42	11.42	11.42	11.37	11.47
Aldrin						
Heptachlor epoxide	14.47	14.47	14.47	14.47	14.40	14.54
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	17.96	17.96	17.96	17.96	17.89	18.03
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	15.57	15.57	15.57	15.57	15.50	15.64
gamma-Chlordane	15.02	15.02	15.02	15.02	14.95	15.09
Tetrachloro-m-xylene	6.69	6.69	6.69	6.69	6.64	6.74
Decachlorobiphenyl	31.11	31.12	31.13	31.12	31.02	31.22

\* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.

6D  
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

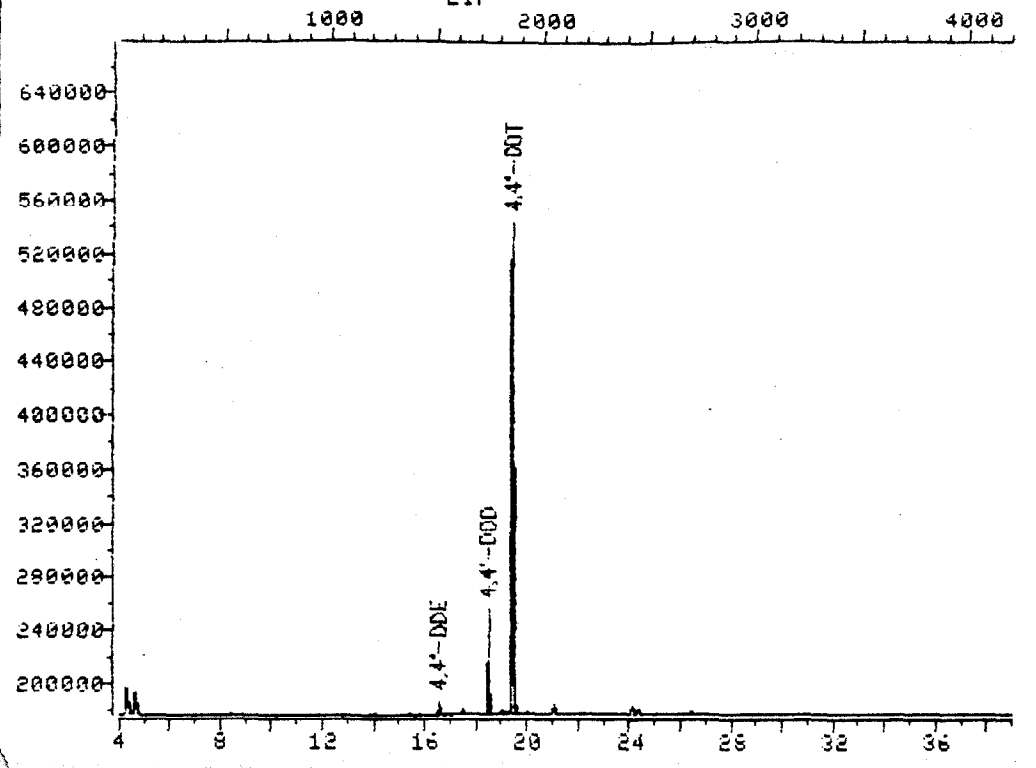
Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 2 Level (x low): low 1.00 mid 5.00 high 100  
 GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	12.65	12.64	12.65	12.65	12.60	12.70
Aldrin						
Heptachlor epoxide	15.13	15.13	15.13	15.13	15.06	15.20
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	18.02	18.02	18.02	18.02	17.97	18.09
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	16.36	16.36	16.36	16.36	16.29	16.43
gamma-Chlordane	15.91	15.91	15.91	15.91	15.84	15.98
Tetrachloro-m-xylene	7.94	7.90	7.90	7.91	7.86	7.96
Decachlorobiphenyl	32.37	32.38	32.38	32.38	32.28	32.48

\* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.

## CHROMATOGRAM

File >Z4144 .7-1.7 amu. 15226N-C6527 JM3564P,N2P40135,S:G  
EIP

Data File: &gt;Z4144::D5

Quant Output File: ^Z4144::D5

Name: 15226N-C6527

Instrument ID: Z

Misc: JM3564P,N2P40135,S:G1,30.2,2:50, 500X

Id File: IZP307::D5

Title: PESTICIDES DB-608 BY GC B2 (FRONT)

Last Calibration: 940308 07:26

Last Qual Time: &lt;none&gt;

Operator ID: USER1

Quant Time : 940322 18:10

Injected at: 940322 17:30



DL 0113  
3-23-94

QUANT REPORT

Operator ID: USER1                      Quant Rev: 7                      Quant Time: 940322 18:10  
Output File: ^Z4144::D5                      Injected at: 940322 17:30  
Data File: >Z4144::D5                      Dilution Factor: 10.00000  
Name: 15226N-C6527                      Instrument ID: Z  
Misc: JM3564P,N2P40135,S:G1,30.2,2:50, 500X

ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26                      Last Qual Time: <none>

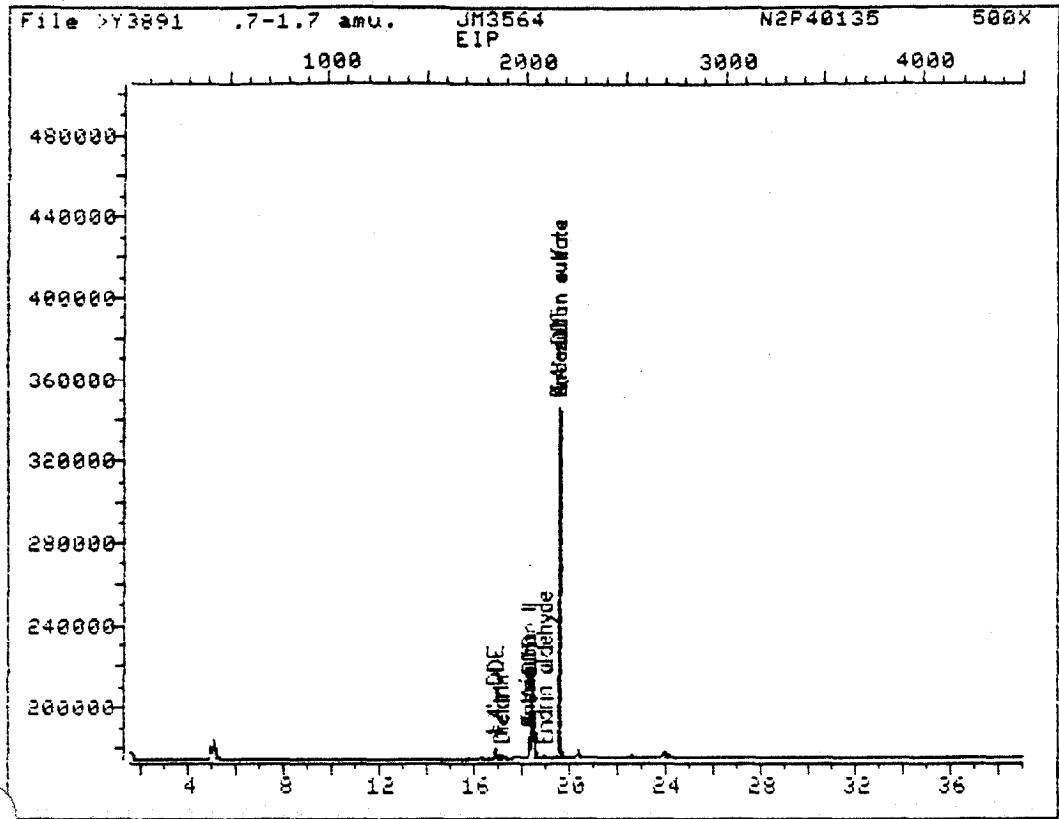
Compound	R.T.	Scan#	Area	Conc	Units	q
+13) #4,4'-DDE	16.54	1506	44928	.161	ug/ml	100
*16) <del>#4,4'-DDD</del>	18.46	1736	408099	<del>1.83</del>	<del>ug/ml</del>	100
+18) #4,4'-DDT	19.42	1851	1563592	7.40	ug/ml	100

# Compound uses ESTD

+ Confirmed present on DB'S (Run# Y3891)

\* Confirmed not present

CHROMATOGRAM



Data File: >Y3891::D5  
Name: JM3564  
Misc: N2P40135 500X

Quant Output File: ^Y3891::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940322 18:55  
Injected at: 940322 18:15

## QUANT REPORT

Page 1

Operator ID: USER1  
 Output File: ^Y3891::D5  
 Data File: >Y3891::D5  
 Name: JM3564  
 Misc: N2P40135 500X

Quant Rev: 7 Quant Time: 940322 18:55  
 Injected at: 940322 18:15  
 Dilution Factor: 10.00000  
 Instrument ID: Y

ID File: IYP307::D5  
 Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, 82R  
 Last Calibration: 940308 07:48 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
13) #4,4'-DDE	16.84	1842	20063	.141	ug/ml	100
14) #Dieldrin	17.09	1872	9247	.0616	ug/ml	100
15) #Endrin	18.24	2010	41504	.310	ug/ml	100
16) #Endosulfan II	18.24	2010	41504	.326	ug/ml	100
17) #4,4'-DDD	18.24	2010	41504	.326	ug/ml	100
18) #Endrin aldehyde	18.89	2088	6335	.0544	ug/ml	100
19) #4,4'-DDT	19.49	2160	792230	7.89	ug/ml	100
20) #Endosulfan sulfate	19.49	2160	792230	7.89	ug/ml	100

Compound uses ESTD

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA BLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2P40139P

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A41878

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Received: 2/18/94

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 3/11/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/17/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/kg
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor		
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide		
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin		
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane		
5103-74-2--	gamma-Chlordane		
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016	250	U
11104-28-2-	Aroclor-1221	250	U
11141-16-5-	Aroclor-1232	250	U
53469-21-9-	Aroclor-1242	250	U
12672-29-6-	Aroclor-1248	250	U
11097-69-1-	Aroclor-1254	250	U
11096-82-5-	Aroclor-1260	250	U

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA B5K01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) soil Lab Sample ID: N2P40139PS

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A41879

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Received: 2/18/94

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 3/11/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/17/94

Injection Volume: 2.0 / 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
319-84-6----	alpha-BHC		
319-85-7----	beta-BHC		
319-86-8----	delta-BHC		
58-89-9-----	gamma-BHC (Lindane)		
76-44-8-----	Heptachlor		
309-00-2----	Aldrin		
1024-57-3--	Heptachlor Epoxide		
959-98-8----	Endosulfan I		
60-57-1-----	Dieldrin		
72-55-9-----	4,4'-DDE		
72-20-8-----	Endrin		
33213-65-9-	Endosulfan II		
72-54-8-----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3-----	4,4'-DDT		
72-43-5-----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane		
5103-74-2--	gamma-Chlordane		
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016	<u>250</u>	<u>U</u>
11104-28-2-	Aroclor-1221	<u>250</u>	<u>U</u>
11141-16-5-	Aroclor-1232	<u>250</u>	<u>U</u>
53469-21-9-	Aroclor-1242	<u>250</u>	<u>U</u>
12672-29-6-	Aroclor-1248	<u>250</u>	<u>U</u>
11097-69-1-	Aroclor-1254	<u>295</u>	<u>U</u>
11096-82-5-	Aroclor-1260	<u>250</u>	<u>U</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6527  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: JM3564P  
 Sample wt/vol: 30.1 (g/mL) g Lab File ID: A41924  
 % Moisture: 81.1 decanted: (Y/N) N Date Received: 2/18/94  
 Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 3/11/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3/17/94  
 Injection Volume: <sup>2.0</sup>1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor		
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide		
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin		
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane		
5103-74-2--	gamma-Chlordane		
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016	250	U
11104-28-2-	Aroclor-1221	250	U
11141-16-5-	Aroclor-1232	250	U
53469-21-9-	Aroclor-1242	250	U
12672-29-6-	Aroclor-1248	250	U
11097-69-1-	Aroclor-1254	250	U
11096-82-5-	Aroclor-1260	250	U

PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

GC Column(1): DB-<sup>17</sup>603 ID: .53 (mm) GC Column(2): DB-<sup>N.A.</sup>5 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	<i>BLK-01</i>	<i>75.7</i>		<i>95.7</i>				<i>0</i>
02	<i>BSPK-01</i>	<i>80.5</i>		<i>92.2</i>				<i>0</i>
03	<i>C6527</i>	<i>D</i>		<i>D</i>				<i>1</i>
04								
05								
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ADVISORY  
QC LIMITS

TCX = Tetrachloro-m-xylene (60-150)  
DCB = Decachlorobiphenyl (60-150)

- # Column to be used to flag recovery values
- \* Values outside of QC limits
- D Surrogate diluted out

PCB BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Blank Spike - EPA Sample No.: BSK 01

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
Aroclor 1254	395	U	290	90.8	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS: \_\_\_\_\_



## PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: C6527

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor 1254	—	—	—	—	30-130
					30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Aroclor 1254	—	—	—	—	30	30-130
					30	30-130

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

\* Values outside of QC limits

RPD:        out of   1   outside limitsSpike Recovery:        out of   2   outside limitsCOMMENTS: MATRIX SPIKES DILUTED OUT DUE TO MATRIX INTERFERENCES.

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A

Lab Sample ID: N2P40139P Lab File ID: A41876

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 3/11/94

Date Analyzed (1): 3/14/94 Date Analyzed (2): \_\_\_\_\_

Time Analyzed (1): 1351 Time Analyzed (2): \_\_\_\_\_

Instrument ID (1): A4F Instrument ID (2): \_\_\_\_\_

GC Column (1): DB 17 ID: .53 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	<u>BLK 01</u>	<u>N2P40139P</u>	<u>3/14/94</u>	
02	<u>BSK 01</u>	<u>N2P40139PS</u>	<u>↓</u>	
03	<u>C6527</u>	<u>JM 3564P</u>	<u>3/17/94</u>	
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05				
06				
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23				
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25				
26				

COMMENTS:

page \_\_\_ of \_\_\_

## PCB INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAInstrument ID: A4F Calibration Date (s): 2/8/94 2/9/94Calibration Time (s): 1232 0312LAB FILE ID: \_\_\_\_\_ CLOW = \_\_\_\_\_ CMEDL = \_\_\_\_\_  
CMED = \_\_\_\_\_ CMEDH = \_\_\_\_\_ CHIGH = \_\_\_\_\_

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	CF	% RSD
Aroclor-1016	1200000	1190000	1160000	1150000	1110000	1160000	3.17
Aroclor-1221	3990000	3830000	3550000	3400000	3190000	3600000	8.92
Aroclor-1232	—	—	—	—	—	—	—
Aroclor-1242	9490000	9460000	9370000	9200000	8760000	9300000	3.74
Aroclor-1248	10500000	10200000	10300000	10100000	9820000	10200000	2.51
Aroclor-1254	14900000	14500000	12800000	14300000	12400000	13800000	7.88
Aroclor-1260	12600000	12600000	13100000	13600000	13900000	13100000	4.50

PCB CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: A4F Calibration Date: 3/14/94 Time: 0722 - 1005

Lab File ID: \_\_\_\_\_ Initial Calib Date(s): 2/8/94 2/9/94

Initial Calib Times: 1232 0312

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Aroclor-1016	1160000	1180000	NA	1.79	15
Aroclor-1221	360000	371000	NA	3.14	15
Aroclor-1232	—	—	NA	—	—
Aroclor-1242	930000	919000	NA	1.16	15
Aroclor-1248	1020000	975000	NA	4.39	15
Aroclor-1254	1380000	1400000	NA	1.47	15
Aroclor-1260	1310000	1500000	NA	1.30	15

PCB CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

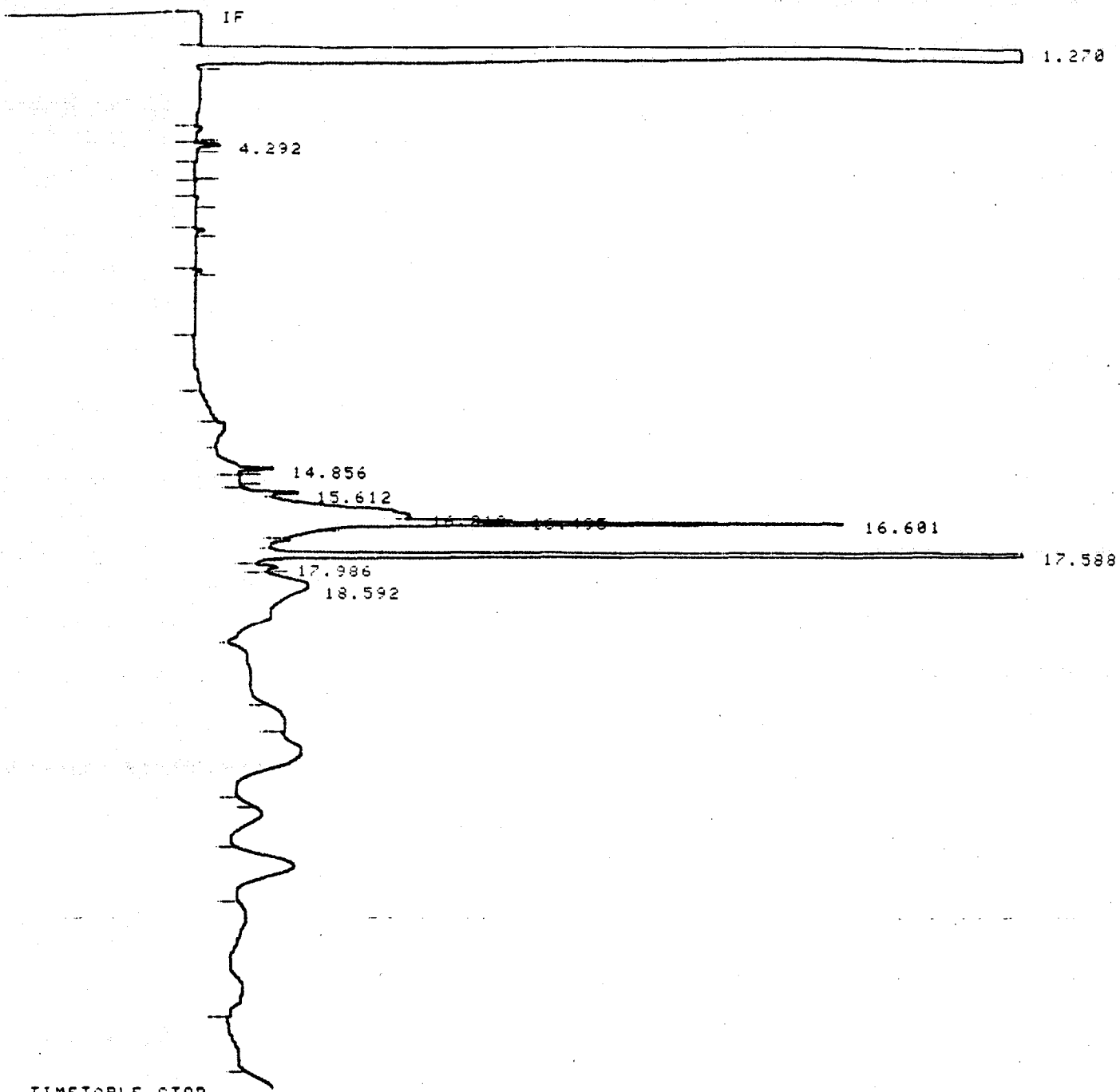
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: A4F Calibration Date: 3/17/94 Time: 0844-1127

Lab File ID: \_\_\_\_\_ Initial Calib Date(s): 2/8/94 2/9/94

Initial Calib Times: 1232 0312

COMPOUND	CF	CMED	MIN CF	% D	MAX % D
Aroclor-1016	1160000	1200000	NA	3.52	15
Aroclor-1221	360000	371000	NA	3.20	15
Aroclor-1232	—	—	NA	—	—
Aroclor-1242	930000	927000	NA	.303	15
Aroclor-1248	1020000	975000	NA	4.39	15
Aroclor-1254	1380000	1420000	NA	2.78	15
Aroclor-1260	1310000	1370000	NA	4.11	15



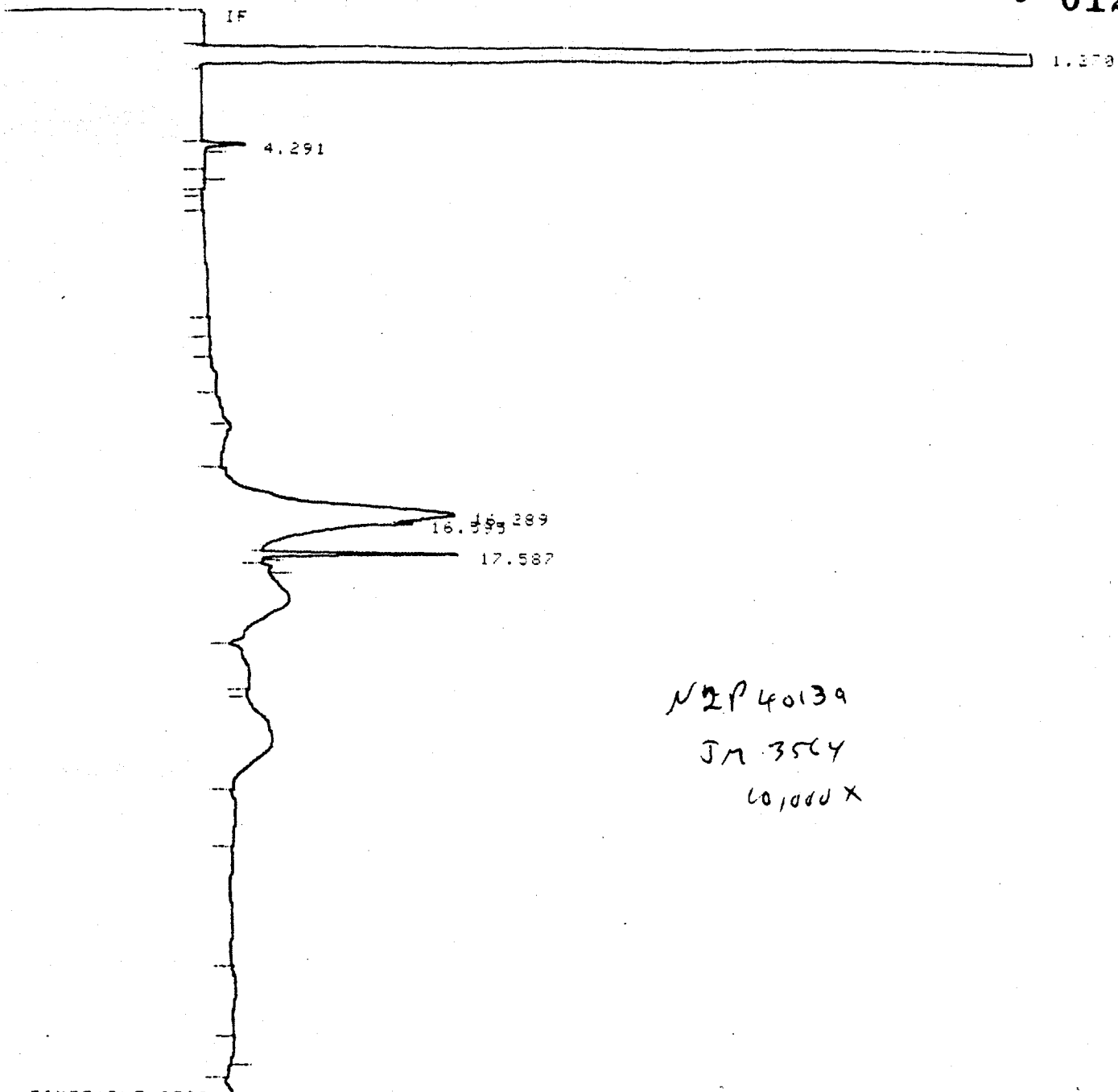
TIMETABLE STOP

RUN# 1924      MAR 17, 1994 18:40:15

RT	AREA	TYPE	WIDTH	AREA%
1.270	4810995	BB	.197	82.57555
4.292	5461	BB	.102	.09373
14.856	9696	PB	.117	.16642
15.612	9845	BV	.101	.16898
16.318	111116	VV	.426	1.98719
16.495	41693	VV	.092	.71562
16.601	112734	VB	.099	1.93496
17.588	598717	PB	.089	10.27633
17.986	4057	BB	.116	.06963
18.592	121858	BB	1.104	2.09156

TOTAL AREA=5826173

*NAP 40139*  
*JR35LY*  
*1000 X*



TIMETABLE STOP

N2P40139  
JM 3564  
60,000 X

RT	AREA	TYPE	WIDTH	AREA%
1.270	4853354	VB	.198	91.79891
4.291	9299	BB	.103	.17589
16.289	275340	PV	.615	5.20793
16.595	109740	VV	.310	2.07568
17.587	39207	VB	.093	.74158

TOTAL AREA=5286938  
MUL FACTOR=1.0000E+00

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKI

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N2C40133  
 Sample (wt/vol): 30.0 (g/mL) g Lab File ID: A1013  
 Level: (low/med) low Date Received: 02-18-94  
 % Moisture: - decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH:     

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
108-95-2	Phenol	332	U
111-44-4	bis(2-Chloroethyl) ether	332	U
95-57-8	2-Chlorophenol	332	U
541-73-1	1,3-Dichlorobenzene	332	U
106-46-7	1,4-Dichlorobenzene	332	U
95-50-1	1,2-Dichlorobenzene	332	U
95-48-7	2-Methylphenol	332	U
108-60-1	2,2'-oxybis(1-Chloropropane)	332	U
106-44-5	4-Methylphenol	332	U
621-64-7	N-Nitroso-di-n-propylamine	332	U
67-72-1	Hexachloroethane	332	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	332	U
88-75-5	2-Nitrophenol	332	U
105-67-9	2,4-Dimethylphenol	332	U
111-91-1	bis(2-Chloroethoxy) methane	332	U
120-83-2	2,4-Dichlorophenol	332	U
120-82-1	1,2,4-Trichlorobenzene	332	U
91-20-3	Naphthalene	332	U
106-47-8	4-Chloroaniline	332	U
87-68-3	Hexachlorobutadiene	332	U
59-50-7	4-Chloro-3-methylphenol	332	U
91-57-6	2-Methylnaphthalene	332	U
77-47-4	Hexachlorocyclopentadiene	332	U
88-06-2	2,4,6-Trichlorophenol	332	U
95-95-4	2,4,5-Trichlorophenol	332	U
91-58-7	2-Chloronaphthalene	332	U
88-74-4	2-Nitroaniline	332	U
131-11-3	Dimethylphthalate	332	U
208-96-8	Acenaphthylene	332	U
606-20-2	2,6-Dinitrotoluene	332	U
99-09-2	3-Nitroaniline	332	U
83-32-9	Acenaphthene	332	U



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA SBLK1

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N2C40133

Sample wt/vol: 30.0 (g/mL) g Lab File ID: A1013

Level: (low/med) low Date Received: 02-18-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
51-28-5	2,4-Dinitrophenol	1660	U
100-02-7	4-Nitrophenol	1660	U
132-64-9	Dibenzofuran	332	U
121-14-2	2,4-Dinitrotoluene	332	U
84-66-2	Diethylphthalate	332	U
7005-72-3	4-Chlorophenyl-phenylether	332	U
86-73-7	Fluorene	332	U
100-01-6	4-Nitroaniline	332	U
534-52-1	4,6-Dinitro-2-methylphenol	332	U
86-30-6	N-Nitrosodiphenylamine (1)	332	U
101-55-3	4-Bromophenyl-phenylether	332	U
118-74-1	Hexachlorobenzene	332	U
87-86-5	Pentachlorophenol	332	U
85-01-8	Phenanthrene	332	U
120-12-7	Anthracene	332	U
86-74-8	Carbazole	332	U
84-74-2	Di-n-butylphthalate	332	U
206-44-0	Fluoranthene	332	U
129-00-0	Pyrene	332	U
85-68-7	Butylbenzylphthalate	332	U
91-94-1	3,3'-Dichlorobenzidine	332	U
56-55-3	Benzo(a)anthracene	332	U
218-01-9	Chrysene	332	U
117-31-7	bis(2-Ethylhexyl)phthalate	332	U
117-84-0	Di-n-octylphthalate	332	U
205-99-2	Benzo(b)fluoranthene	332	U
207-08-9	Benzo(k)fluoranthene	332	U
50-32-8	Benzo(a)pyrene	332	U
193-39-5	Indeno(1,2,3-cd)pyrene	332	U
53-70-3	Dibenz(a,h)anthracene	332	U
191-24-2	Benzo(g,h,i)perylene	332	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N2C40133

Sample (wt/vol): 30.0 (g/mL) Lab File ID: A1013

Level: (low/med) Low Date Received: 02-18-94

% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	<u>Unknown</u>	<u>16.045</u>	<u>793</u>	<u>J</u>
2.	<u>Unknown brominated hydrocarbon</u>	<u>17.102</u>	<u>390</u>	<u>J</u>
3.	<u>Unknown</u>	<u>17.574</u>	<u>472</u>	<u>J</u>
4. <u>103-23-1</u>	<u>Bis(2-ethylhexyl) ester Hexanedioic acid</u>	<u>24.660</u>	<u>397</u>	<u>J</u>
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1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSPK 1

Lab Name: ASC

Contract: NFEESA

Lab Code: NA Case No.: NA

SAS No.: NA SDG No.: NA

Matrix: (soil/water) Soil

Lab Sample ID: NAC40133CS

Sample wt/vol: 300 (g/mL) g

Lab File ID: A1014

Level: (low/med) LOW

Date Received: 02-28-94

% Moisture: - decanted: (Y/N) N

Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 3-26-94

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:     

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/kg Q

108-95-2	Phenol	2390	
111-44-4	bis(2-Chloroethyl) ether	853	
95-57-8	2-Chlorophenol	2060	
541-73-1	1,3-Dichlorobenzene	332	U
106-46-7	1,4-Dichlorobenzene	1460	
95-50-1	1,2-Dichlorobenzene	1470	
95-48-7	2-Methylphenol	1430	
108-60-1	2,2'-oxybis(1-Chloropropane)	332	U
106-44-5	4-Methylphenol	332	U
621-64-7	N-Nitroso-di-n-propylamine	1310	
67-72-1	Hexachloroethane	1600	
98-95-3	Nitrobenzene	332	U
78-59-1	Isophorone	1960	
88-75-5	2-Nitrophenol	123	J
105-67-9	2,4-Dimethylphenol	332	J
111-91-1	bis(2-Chloroethoxy)methane	332	J
120-83-2	2,4-Dichlorophenol	2750	
120-82-1	1,2,4-Trichlorobenzene	1700	
91-20-3	Naphthalene	332	U
106-47-8	4-Chloroaniline	617	
87-68-3	Hexachlorobutadiene	332	U
59-50-7	4-Chloro-3-methylphenol	2510	
91-57-6	2-Methylnaphthalene	2070	
77-47-4	Hexachlorocyclopentadiene	332	U
88-06-2	2,4,6-Trichlorophenol	2450	
95-95-4	2,4,5-Trichlorophenol	2640	
91-58-7	2-Chloronaphthalene	332	U
88-74-4	2-Nitroaniline	332	U
131-11-3	Dimethylphthalate	332	U
208-96-8	Acenaphthylene	2090	
606-20-2	2,6-Dinitrotoluene	267	J
99-09-2	3-Nitroaniline	332	U
83-32-9	Acenaphthene	1950	

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: ASC Contract: NEESA SSPK1  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: N2CH0133CS  
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: A1014  
 Level: (low/med) LOW Date Received: 02-18-94  
 Moisture: - decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 1.00  
 GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
51-28-5	2,4-Dinitrophenol	3290	
100-02-7	4-Nitrophenol	3770	
132-64-9	Dibenzofuran	332	U
121-14-2	2,4-Dinitrotoluene	2940	
84-66-2	Diethylphthalate	332	U
7005-72-3	4-Chlorophenyl-phenylether	332	U
86-73-7	Fluorene	332	U
100-01-6	4-Nitroaniline	2540	
534-52-1	4,6-Dinitro-2-methylphenol	332	U
86-30-6	N-Nitrosodiphenylamine (1)	332	U
101-55-3	4-Bromophenyl-phenylether	2260	
118-74-1	Hexachlorobenzene	437	U
87-86-5	Pentachlorophenol	4430	
85-01-8	Phenanthrene	1830	
120-12-7	Anthracene	1820	
86-74-8	Carbazole	2470	
84-74-2	Di-n-butylphthalate	1280	
206-44-0	Fluoranthene	332	U
129-00-0	Pyrene	2090	
85-68-7	Butylbenzylphthalate	2390	
91-94-1	3,3'-Dichlorobenzidine	1740	
56-55-3	Benzo(a)anthracene	2570	
218-01-9	Chrysene	2700	
117-31-7	bis(2-Ethylhexyl)phthalate	2050	
117-84-0	Di-n-octylphthalate	332	U
205-99-2	Benzo(b)fluoranthene	332	U
207-08-9	Benzo(k)fluoranthene	332	U
50-32-8	Benzo(a)pyrene	2740	
193-39-5	Indeno(1,2,3-cd)pyrene	332	U
53-70-3	Dibenz(a,h)anthracene	332	U
191-24-2	Benzo(g,h,i)perylene	332	U

(1) - Cannot be separated from Diphenylamine

1B  
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CG527MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM3564CS  
 Sample wt/vol: 30.5 (g/mL) g Lab File ID: A1016  
 Level: (low/med) LOW Date Received: 02-18-94  
 % Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	Q
108-95-2	Phenol	3770	
111-44-4	bis(2-Chloroethyl) ether	DL 3220 3280	U
95-57-8	2-Chlorophenol	3340	
541-73-1	1,3-Dichlorobenzene	DL 3220 3280	U
106-46-7	1,4-Dichlorobenzene	2620	
95-50-1	1,2-Dichlorobenzene	3000	
95-48-7	2-Methylphenol	1410	
108-60-1	2,2'-oxybis(1-Chloropropane)	3280	U
106-44-5	4-Methylphenol	3280	U
621-64-7	N-Nitroso-di-n-propylamine	3970	
67-72-1	Hexachloroethane	3310	
98-95-3	Nitrobenzene	3280	U
78-59-1	Isophorone	4030	
88-75-5	2-Nitrophenol	3280	U
105-67-9	2,4-Dimethylphenol	3280	U
111-91-1	bis(2-Chloroethoxy) methane	3280	U
120-83-2	2,4-Dichlorophenol	5410	
120-82-1	1,2,4-Trichlorobenzene	3900	
91-20-3	Naphthalene	3280	U
106-47-8	4-Chloroaniline	3280	U
87-68-3	Hexachlorobutadiene	3280	U
59-50-7	4-Chloro-3-methylphenol	4160	
91-57-6	2-Methylnaphthalene	5180	
77-47-4	Hexachlorocyclopentadiene	3280	U
88-06-2	2,4,6-Trichlorophenol	4460	
95-95-4	2,4,5-Trichlorophenol	5180	
91-58-7	2-Chloronaphthalene	3280	U
88-74-4	2-Nitroaniline	3280	U
131-11-3	Dimethylphthalate	3280	U
208-96-8	Aceraphthylene	5210	
606-20-2	2,6-Dinitrotoluene	3280	U
99-09-2	3-Nitroaniline	3280	U
83-32-9	Acenaphthene	4920	

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CG527MS

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: JM3564CR  
 Sample wt/vol: 30.5 (g/mL) g Lab File ID: A1016  
 Level: (low/med) LOW Date Received: 02-18-94  
 % Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH:     

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

51-28-5	2,4-Dinitrophenol	715	U
100-02-7	4-Nitrophenol	4300	U
132-64-9	Dibenzofuran	3280	U
121-14-2	2,4-Dinitrotoluene	3770	U
84-66-2	Diethylphthalate	3280	U
7005-72-3	4-Chlorophenyl-phenylether	3280	U
86-73-7	Fluorene	3280	U
100-01-6	4-Nitroaniline	2040	U
534-52-1	4,6-Dinitro-2-methylphenol	3280	U
86-30-6	N-Nitrosodiphenylamine (1)	3280	U
101-55-3	4-Bromophenyl-phenylether	4560	U
118-74-1	Hexachlorobenzene	3280	U
87-86-5	Pentachlorophenol	5480	U
85-01-8	Phenanthrene	3140	U
120-12-7	Anthracene	3120	U
86-74-8	Carbazole	4690	U
84-74-2	Di-n-butylphthalate	5310	U
206-44-0	Fluoranthene	3280	U
129-00-0	Pyrene	4590	U
85-68-7	Butylbenzylphthalate	5180	U
91-94-1	3,3'-Dichlorobenzidine	3280	U
56-55-3	Benzo(a)anthracene	4000 3280 DL	U DL
218-01-9	Chrysene	4130	U
117-31-7	bis(2-Ethylhexyl)phthalate	6500 3280 DL	U DL
117-84-0	Di-n-octylphthalate	3280	U
205-99-2	Benzo(b)fluoranthene	3280	U
207-08-9	Benzo(k)fluoranthene	3280	U
50-32-8	Benzo(a)pyrene	1120	U
193-39-5	Indeno(1,2,3-cd)pyrene	3280	U
53-70-3	Dibenz(a,h)anthracene	3280	U
191-24-2	Benzo(g,h,i)perylene	3280	U

(1) - Cannot be separated from Diphenylamine

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527MSD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3564CR

Sample wt/vol: 30.0<sup>4</sup> (g/mL) g Lab File ID: A1017

Level: (low/med) LOW Date Received: 02-18-94

% Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 20 (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
108-95-2	Phenol	3360	
111-44-4	bis(2-Chloroethyl) ether	3290	U
95-57-8	2-Chlorophenol	2730	
541-73-1	1,3-Dichlorobenzene	3290	U
106-46-7	1,4-Dichlorobenzene	2460	
95-50-1	1,2-Dichlorobenzene	2420	
95-48-7	2-Methylphenol	993	
108-60-1	2,2'-oxybis(1-Chloropropane)	3290	U
106-44-5	4-Methylphenol	3290	U
621-64-7	N-Nitroso-di-n-propylamine	3680	
67-72-1	Hexachloroethane	2970	
98-95-3	Nitrobenzene	3290	U
78-59-1	Isophorone	3720	
88-75-5	2-Nitrophenol	3290	U
105-67-9	2,4-Dimethylphenol	3290	U
111-91-1	bis(2-Chloroethoxy) methane	3290	U
120-83-2	2,4-Dichlorophenol	5230	
120-82-1	1,2,4-Trichlorobenzene	3780	
91-20-3	Naphthalene	3290	U
106-47-8	4-Chloroaniline	3290	U
87-68-3	Hexachlorobutadiene	3290	U
59-50-7	4-Chloro-3-methylphenol	4210	
91-57-6	2-Metnylnaphthalene	5100	
77-47-4	Hexachlorocyclopentadiene	3290	U
88-06-2	2,4,6-Trichlorophenol	4050	
95-95-4	2,4,5-Trichlorophenol	4740	
91-58-7	2-Chloronaphthalene	3290	U
88-74-4	2-Nitroaniline	3290	U
131-11-3	Dimethylphthalate	3290	U
208-96-8	Aceraphthylene	4870	
606-20-2	2,6-Dinitrotoluene	3290	U
99-09-2	3-Nitroaniline	3290	U
83-32-9	Aceraphthene	4510	

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: C6527MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) SOIL Lab Sample ID: JM354HR  
 Sample wt/vol: 30.4 (g/mL) g Lab File ID: A1017  
 Level: (low/med) LOW Date Received: 02-18-94  
 % Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94  
 Injection Volume: 20 (uL) Dilution Factor: 10  
 GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	<u>Q</u>
51-28-5	2,4-Dinitrophenol	3290	U
100-02-7	4-Nitrophenol	8090	
132-64-9	Dibenzofuran	3290	U
121-14-2	2,4-Dinitrotoluene	3260	
84-66-2	Diethylphthalate	3290	U
7005-72-3	4-Chlorophenyl-phenylether	3290	U
86-73-7	Fluorene	3290	U
100-01-6	4-Nitroaniline	750	
534-52-1	4,6-Dinitro-2-methylphenol	3290	U
86-30-6	N-Nitrosodiphenylamine (1)	3290	U
101-55-3	4-Bromophenyl-phenylether	4700	
118-74-1	Hexachlorobenzene	3290	U
87-86-5	Pentachlorophenol	5920	
85-01-8	Phenanthrene	2990	
120-12-7	Anthracene	2970	
86-74-8	Carbazole	3680	
84-74-2	Di-n-butylphthalate	5360	
206-44-0	Fluoranthene	3290	U
129-00-0	Pyrene	4670	
85-63-7	Butylbenzylphthalate	5390	
91-94-1	3,3'-Dichlorobenzidine	3290	U
56-55-3	Benzo(a)anthracene	3980	
218-01-9	Chrysene	4240	
117-31-7	bis(2-Ethylhexyl)phthalate	6880	
117-84-0	Di-n-octylphthalate	3290	U
205-99-2	Benzo(b)fluoranthene	3290	U
207-08-9	Benzo(k)fluoranthene	3290	U
50-32-8	Benzo(a)pyrene	1640	
193-39-5	Indeno(1,2,3-cd)pyrene	3290	U
50-70-3	Dibenz(a,h)anthracene	3290	U
191-24-2	Benzo(g,h,i)perylene	3290	U

(1) - Cannot be separated from Diphenylamine



1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6527

Lab Name: ASC Contract: NEESA
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA
Matrix: (soil/water) SOIL Lab Sample ID: JM356A
Sample wt/vol: 30.1 (g/mL) g Lab File ID: A1015
Level: (low/med) low Date Received: 02-18-94
% Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94
Injection Volume: 2.0 (uL) Dilution Factor: 10
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/Kg Q

Table with 4 columns: CAS NO., COMPOUND, (ug/L or ug/Kg), ug/Kg, Q. Rows include: 108-95-2-Phenol, 111-44-4-bis(2-Chloroethyl) ether, 95-57-8-2-Chlorophenol, 541-73-1-1,3-Dichlorobenzene, 106-46-7-1,4-Dichlorobenzene, 95-50-1-1,2-Dichlorobenzene, 95-48-7-2-Methylphenol, 108-60-1-2,2'-oxybis(1-Chloropropane), 106-44-5-4-Methylphenol, 621-64-7-N-Nitroso-di-n-propylamine, 67-72-1-Hexachloroethane, 98-95-3-Nitrobenzene, 78-59-1-Isophorone, 88-75-5-2-Nitrophenol, 105-67-9-2,4-Dimethylphenol, 111-91-1-bis(2-Chloroethoxy)methane, 120-83-2-2,4-Dichlorophenol, 120-82-1-1,2,4-Trichlorobenzene, 91-20-3-Naphthalene, 106-47-8-4-Chloroaniline, 87-68-3-Hexachlorobutadiene, 59-50-7-4-Chloro-3-methylphenol, 91-57-6-2-Methylnaphthalene, 77-47-4-Hexachlorocyclopentadiene, 88-06-2-2,4,6-Trichlorophenol, 95-95-4-2,4,5-Trichlorophenol, 91-58-7-2-Chloronaphthalene, 88-74-4-2-Nitroaniline, 131-11-3-Dimethylphthalate, 208-96-8-Acenaphthylene, 606-20-2-2,6-Dinitrotoluene, 99-09-2-3-Nitroaniline, 83-32-9-Acenaphthene.

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3564

Sample wt/vol: 30.1 (g/mL) g Lab File ID: A1015

Level: (low/med) low Date Received: 02-18-94

% Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH:     

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/Kg</u>
51-28-5	2,4-Dinitrophenol	16600	U
100-02-7	4-Nitrophenol	16600	U
132-64-9	Dibenzofuran	3320	U
121-14-2	2,4-Dinitrotoluene	3320	U
84-66-2	Diethylphthalate	3320	U
7005-72-3	4-Chlorophenyl-phenylether	3320	U
86-73-7	Fluorene	3320	U
100-01-6	4-Nitroaniline	3320	U
534-52-1	4,6-Dinitro-2-methylphenol	3320	U
86-30-6	N-Nitrosodiphenylamine (1)	3320	U
101-55-3	4-Bromophenyl-phenylether	3320	U
118-74-1	Hexachlorobenzene	3320	U
87-86-5	Pentachlorophenol	3320	U
85-01-8	Phenanthrene	3320	U
120-12-7	Anthracene	3320	U
86-74-8	Carbazole	3320	U
84-74-2	Di-n-butylphthalate	3320	U
206-44-0	Fluoranthene	3320	U
129-00-0	Pyrene	3320	U
85-68-7	Butylbenzylphthalate	3320	U
91-94-1	3,3'-Dichlorobenzidine	3320	U
56-55-3	Benzo(a)anthracene	3320	U
218-01-9	Chrysene	3320	U
117-31-7	bis(2-Ethylhexyl)phthalate	1450 <del>3320</del>	<del>U</del> J
117-84-0	Di-n-octylphthalate	3320	U
205-99-2	Benzo(b)fluoranthene	3320	U
207-08-9	Benzo(k)fluoranthene	3320	U
50-32-8	Benzo(a)pyrene	3320	U
193-39-5	Indeno(1,2,3-cd)pyrene	3320	U
53-70-3	Dibenz(a,h)anthracene	3320	U
191-24-2	Benzo(g,h,i)perylene	3320	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C6527

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3564

Sample wt/vol: 30.10 (g/mL) g Lab File ID: A1015

Level: (low/med) Low Date Received: 02-18-94

% Moisture: 20.2 decanted: (Y/N) N Date Extracted: 03-17-94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3-26-94

Injection Volume: 2.0 (uL) Dilution Factor: 10

GPC Cleanup: (Y/N) N pH:     

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 54832-83-6	Octahydro-2,2,4,1H-Indene	16.007	5390	J
2. 8017-34-3	Technical Chlorophenothane	24.421	3850	J
3. 0	Unknown Hydrocarbon	12.211	8490	J
4. 0	Unknown Hydrocarbon	17.948	2720	J
5. 0	Unknown Hydrocarbon	18.536	6980	J
6. 0	Unknown Hydrocarbon	21.343	4110	J
7. 0	Unknown Hydrocarbon	22.225	7450	J
8. 0	Unknown Hydrocarbon	23.040	15800	J
9. 0	Unknown Hydrocarbon	23.832	23200	J
10. 0	Unknown Hydrocarbon	24.330	3650	J
11. 0	Unknown Organic acid	21.003	4310	J
12. 0	Unknown	15.916	3380	J
13. 0	Unknown	16.616	2730	J
14. 0	Unknown	17.519	3320 4490 (M)	J
15. 0	Unknown	17.609	6800 20500 (M)	J
16. 0	Unknown	17.722	4210	J
17. 0	Unknown	22.610	5500	J
18. 0	Unknown Substituted aromatic	16.11	2640	J
19. 0	Unknown Substituted aromatic	16.45	7490	J
20. 0	Unknown Substituted aromatic	17.42	5420	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

11874  
11874

2D  
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NEECA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Level: (low/med) low

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SPK1	46.7	56.5	78.7	38.0	36.2	54.3			0
02	SBK1ES	79.2	79.1	46.6	66.0	72.6	100			0
03	C6527	165D	213D	73.8	112	97.6	89.3			2
04	C6527MS	162D	221D	64.9	126D	104	92.1			3
05	C6527MSD	150D	201D	87.3	107	88.4	92.2			2
06										
07										
08										
09										
10										
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QC LIMITS  
 S1 (NBZ) = Nitrobenzene-d5 (23-120)  
 S2 (FBP) = 2-Fluorobiphenyl (30-115)  
 S3 (TPH) = Terphenyl-d14 (18-137)  
 S4 (PHL) = Phenol-d5 (24-113)  
 S5 (2FP) = 2-Fluorophenol (25-121)  
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)  
 S7 (2CP) = 2-Chlorophenol-d4 (20-130) (advisory)  
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (20-130) (advisory)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out

## SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: SSPK1

COMPOUND	SPIKE ADDED (ug/kg)	BLANK CONCENTRATION (ug/L) ug/kg	BS CONCENTRATION (ug/L) ug/kg	BS % REC #	QC LIMITS REC.
Phenol	3330	0	2290	68.8	12-110
2-Chlorophenol	3330	0	2060	61.9	27-123
1,4-Dichlorobenzene	3330	0	1460	43.8	36-97
N-Nitroso-di-n-Prop. (1)	3330	0	1810	54.4	41-116
1,2,4-Trichlorobenzene	3330	0	1700	51.1	39-98
4-Chloro-3-methylphenol	3330	0	2510	75.4	23-97
Benaphthene	3330	0	1950	58.6	46-118
2-Nitrophenol	3330	0	3770	113 *	10-80
2,4-Dinitrotoluene	3330	0	2940	88.3	24-96
Pentachlorophenol	3330	0	4430	133 *	9-103
Pyrene	3330	0	2090	62.8	26-127

(1) N-Nitroso-di-n-propylamine

# Column to be used to flag recoveries with an asterisk

\* Values outside of QC limits

Spike Recovery: 2 out of 11 outside limits

COMMENTS: \_\_\_\_\_

3D

## SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix Spike - EPA Sample No.: C6527MS Level: (low/med) low

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	100 000	0	11500	* 115	26- 90
2-Chlorophenol	100 000	0	10200	102	25-102
1,4-Dichlorobenzene	100 000	0	7980	798	28-104
N-Nitroso-di-n-prop. (1)	100 000	0	12100	121	41-126
1,2,4-Trichlorobenzene	100 000	0	11900	* 119	38-107
4-Chloro-3-methylphenol	100 000	0	12700	* 127	26-103
Acenaphthene	100 000	0	15000	* 150	31-137
4-Nitrophenol	100 000	0	13100	* 131	11-114
2,4-Dinitrotoluene	100 000	0	11500	* 115	28- 89
Pentachlorophenol	100 000	0	16700	* 167	17-109
Pyrene	100 000	0	14000	140	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	100 000	10200	* 102	12.0	35 26- 90
2-Chlorophenol	100 000	8460	84.6	18.6	50 25-102
1,4-Dichlorobenzene	100 000	7980	79.8	6.47	27 28-104
N-Nitroso-di-n-prop. (1)	100 000	11200	112	7.73	38 41-126
1,2,4-Trichlorobenzene	100 000	11500	* 115	3.42	23 38-107
4-Chloro-3-methylphenol	100 000	12800	128	8.784	33 26-103
Acenaphthene	100 000	13700	137	4.53	49 31-137
4-Nitrophenol	100 000	24600	* 246	* 61.0	50 11-114
2,4-Dinitrotoluene	100 000	9920	* 99.2	14.8	47 28- 89
Pentachlorophenol	100 000	18000	* 180	3.75	47 17-109
Pyrene	100 000	14200	142	1.42	36 35-142

(1) N-Nitroso-di-n-propylamine

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 1 out of 11 outside limits  
 Spike Recovery: 12 out of 22 outside limits

COMMENTS:

4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: A1013 Lab Sample ID: N2040133  
 Instrument ID: MSD-A Date Extracted: 03-17-94  
 Matrix: (soil/water) SOIL Date Analyzed: 03-26-94  
 Level: (low/med) low Time Analyzed: 1934

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK1BS	N2040133	A1014	3-26-94
02	C6527	JM356A	A1015	3-26-94
03	C6527MS	JM356A	A1016	3-26-94
04	C6527MSD	JM356A	A1017	3-26-94
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

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5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: A0997 DFTPP Injection Date: 3-26-94  
 Instrument ID: MSD-A DFTPP Injection Time: 08:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	70.4
68	Less than 2.0% of mass 69	0.0 (0.0) 2
69	Mass 69 relative abundance	67
70	Less than 2.0% of mass 69	0.3 (0.4) 2
127	25.0 - 75.0% of mass 198	45.1
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	18.9
365	Greater than 0.75% of mass 198	1.7
441	Present, but less than mass 443	82.3
442	40.0 - 110.0% of mass 198	42.1
443	15.0 - 24.0% of mass 442	8.0 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	Sstd 20	Sstd 20	A0998	3-26-94	8:34
02	Sstd 30	Sstd 30	A0999	3-26-94	9:25
03	Sstd 80	Sstd 80	A1000	3-26-94	10:16
04	Sstd 120	Sstd 120	A1001	3-26-94	11:07
05	Sstd 160	Sstd 160	A1002	3-26-94	11:58
06					
07					
08					
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58  
 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: A1003 DFTPP Injection Date: 3-26-94  
 Instrument ID: MSD-A DFTPP Injection Time: 12:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	61.9
68	Less than 2.0% of mass 69	0.0 ( 0.0 )
69	Mass 69 relative abundance	63.7
70	Less than 2.0% of mass 69	0.2 ( 0.3 )
127	25.0 - 75.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.1
365	Greater than 0.75% of mass 198	1.7
441	Present, but less than mass 443	82.3
442	40.0 - 110.0% of mass 198	46.3
443	15.0 - 24.0% of mass 442	9.1 ( 19.6 )

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	Sstd50	Sstd50	A1004	3-26-94	1307
02	SBIK1	N2C40133	A1013	3-26-94	1934
03	SBIK1B5	N2C40133	A1014	3-26-94	2025
04	C6527	JM3564	A1015	3-26-94	2116
05	C6527MS	JM3564	A1016	3-26-94	2207
06	C6527MSD	JM3564	A1017	3-26-94	2258
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68

## SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSP-A Calibration Date(s): 03-26-94 03-26-94  
 Calibration Times: 0834 1158

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
LAB FILE ID:	RRF20 = <u>AC992</u>	RRF50 = <u>AC994</u>					
RRF80 = <u>A1000</u>	RRF120 = <u>A1000</u>	RRF160 = <u>A1002</u>					
Phenol	* 1.52	1.53	1.42	1.85	1.79	1.62	11.6
bis(2-Chloroethyl) ether	* 3.13	3.24	3.03	3.38	3.19	3.19	4.02
2-Chlorophenol	* 1.34	1.24	1.17	1.27	1.32	1.27	5.21
1,3-Dichlorobenzene	* 1.48	1.34	1.23	1.32	1.29	1.33	7.07
1,4-Dichlorobenzene	* 1.79	1.55	1.56	1.62	1.67	1.64	6.07
1,2-Dichlorobenzene	* 1.57	1.36	1.30	1.32	1.31	1.37	2.21
2-Methylphenol	* 2.14	1.65	1.42	1.52	1.45	1.64	18.0
2,2'-oxybis(1-Chloropropane)	* 4.52	3.99	3.79	4.06	3.98	4.07	6.62
4-Methylphenol	* 1.60	1.51	1.45	1.42	1.45	1.49	4.68
N-Nitroso-di-n-propylamine	* 1.47	1.31	1.16	1.24	1.26	1.29	8.96
Hexachloroethane	* 0.755	0.701	0.634	0.699	0.687	0.696	6.19
Nitrobenzene	* 0.373	0.322	0.379	0.347	0.359	0.368	3.96
Isophorone	* 0.812	0.872	0.823	0.771	0.791	0.814	4.67
2-Nitrophenol	* 0.191	0.180	0.190	0.171	0.175	0.181	4.98
2,4-Dimethylphenol	* 0.325	0.329	0.335	0.307	0.311	0.321	3.71
bis(2-Chloroethoxy) methane	* 0.498	0.476	0.487	0.463	0.473	0.479	2.84
2,4-Dichlorophenol	* 0.309	0.293	0.291	0.271	0.269	0.287	5.98
1,2,4-Trichlorobenzene	* 0.331	0.329	0.328	0.318	0.298	0.321	4.33
Naphthalene	* 1.11	0.469	0.984	0.942	0.769	0.954	12.7
4-Chloroaniline	* 0.354	0.404	0.419	0.371	0.384	0.386	6.63
Hexachlorobutadiene	* 0.213	0.197	0.208	0.192	0.177	0.197	7.08
4-Chloro-3-methylphenol	* 0.313	0.334	0.338	0.316	0.333	0.326	3.45
2-Methylnaphthalene	* 0.738	0.714	0.675	0.606	0.612	0.669	8.85
Hexachlorocyclopentadiene	* 0.110	0.167	0.188	0.201	0.183	0.170	20.8
2,4,6-Trichlorophenol	* 0.321	0.332	0.324	0.308	0.282	0.314	6.22
2,4,5-Trichlorophenol	* 0.354	0.363	0.345	0.331	0.282	0.336	9.67
2-Chloronaphthalene	* 0.971	0.426	0.891	0.421	0.788	0.899	7.61
2-Nitroaniline	* 0.323	0.333	0.342	0.333	0.326	0.332	2.20
Dimethylphthalate	* 1.31	1.29	1.27	1.15	0.992	1.20	11.1
Acenaphthylene	* 1.67	1.58	1.56	1.38	1.05	1.45	16.9
2,6-Dinitrotoluene	* 0.287	0.302	0.299	0.281	0.273	0.288	4.26
3-Nitroaniline	* 0.232	0.234	0.266	0.247	0.248	0.245	5.58
Acenaphthene	* 1.22	1.09	1.01	0.946	0.821	1.01	14.9
2,4-Dinitrophenol	* 0.044	0.081	0.094	0.094	0.108	0.085	29.6
4-Nitrophenol	* 0.066	0.086	0.090	0.087	0.089	0.084	12.3
Dibenzofuran	* 1.62	1.59	1.46	1.26	1.03	1.39	17.8
2,4-Dinitrotoluene	* 0.375	0.373	0.366	0.329	0.282	0.345	11.5

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.

6C  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-A Calibration Date(s): 3-26-94 3-26-94  
 Calibration Times: 0834 1158

LAB FILE ID: RRF20 = A0998 RRF50 = A0999  
 RRF80 = A1000 RRF120 = A1001 RRF160 = A1002

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	RSD
Diethylphthalate	1.57	1.48	1.43	1.26	0.984	1.34	17.6
4-Chlorophenyl-phenylether	* 0.687	0.679	0.612	0.578	0.529	0.617	10.9
Fluorene	* 1.38	1.25	1.21	1.12	0.955	1.18	13.4
4-Nitroaniline	0.235	0.222	0.242	0.233	0.255	0.237	5.18
4,6-Dinitro-2-methylphenol	0.073	0.078	0.047	0.076	0.093	0.092	11.6
N-Nitrosodiphenylamine (1)	0.774	0.700	0.389	0.395	0.364	0.399	7.43
4-Bromophenyl-phenylether	* 0.194	0.285	0.198	0.179	0.171	0.194	5.03
Hexachlorobenzene	* 0.238	0.216	0.213	0.194	0.194	0.213	7.51
Pentachlorophenol	* 0	0.080	0.085	0.088	0.091	0.086	5.72
Phenanthrene	* 1.04	0.908	0.852	0.787	0.627	0.843	18.0
Anthracene	* 1.08	0.970	0.923	0.797	0.610	0.877	20.7
Carbazole	0.923	0.776	0.775	0.759	0.577	0.762	16.1
Di-n-butylphthalate	1.54	1.32	1.04	0.804	0.618	1.07	35.2
Fluoranthene	* 1.12	0.993	0.933	0.815	0.646	0.903	20.3
Pyrene	* 1.52	1.36	1.41	1.33	1.16	1.36	9.63
Butylbenzylphthalate	0.911	0.771	0.727	0.692	0.625	0.745	14.3
3,3'-Dichlorobenzidine	0.507	0.463	0.420	0.408	0.379	0.435	11.5
Benzo(a)anthracene	* 1.38	1.21	1.29	1.26	1.19	1.27	5.79
Chrysene	* 1.32	1.19	1.14	1.13	1.09	1.17	7.43
bis(2-Ethylhexyl)phthalate	1.36	1.24	1.18	1.10	1.00	1.17	11.6
Di-n-octylphthalate	3.15	3.09	2.91	2.86	2.47	2.89	9.27
Benzo(b)fluoranthene	* 1.91	1.51	1.56	2.25	1.60	1.76	17.8
Benzo(k)fluoranthene	* 1.64	1.74	1.90	1.46	1.92	1.73	10.4
Benzo(a)pyrene	* 1.39	1.33	1.36	1.41	1.40	1.38	2.50
Indeno(1,2,3-cd)pyrene	* 1.30	1.24	1.26	1.45	1.61	1.37	11.5
Dibenz(a,h)anthracene	* 1.07	0.998	1.034	1.13	1.34	1.11	12.0
Benzo(g,h,i)perylene	* 1.05	0.939	1.02	1.13	1.34	1.09	13.7
Nitrobenzene-d5	0.372	0.374	0.374	0.334	0.359	0.363	4.69
2-Fluorobiphenyl	* 1.16	1.09	0.949	0.895	0.750	0.969	12.7
Terphenyl-d14	* 1.25	1.01	1.02	1.01	0.897	0.947	5.81
Phenol-d5	* 1.40	1.40	1.31	1.33	1.45	1.38	3.85
2-Fluorophenol	* 1.01	0.924	0.943	1.02	1.04	0.987	5.10
2,4,6-Tribromophenol	0.145	0.172	0.166	0.167	0.162	0.163	6.34
2-Chlorophenol-d4	*						
1,2-Dichlorobenzene-d4	*						

1) Cannot be separated from Diphenylamine

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-A Calibration Date: 03-26-94 Time: 13:07  
 Lab File ID: A1004 Init. Calib. Date(s): 02-08-94 03-26-94  
 Init. Calib. Times: 11.52 11:07

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.62	1.44	0.800	11.1	25.0
bis(2-Chloroethyl) ether	3.20	3.38	0.700	5.80	25.0
2-Chlorophenol	1.27	1.24	0.800	2.50	25.0
1,3-Dichlorobenzene	1.33	1.52	0.600	13.9	25.0
1,4-Dichlorobenzene	1.64	1.52	0.500	7.50	25.0
1,2-Dichlorobenzene	1.37	1.41	0.400	2.80	25.0
2-Methylphenol	1.64	1.65	0.700	0.60	25.0
2,2'-oxybis(1-Chloropropane)	4.07	4.14		1.7	
4-Methylphenol	1.44	1.46	0.600	1.90	25.0
N-Nitroso-di-n-propylamine	1.29	1.42	0.500	10.0	25.0
Hexachloroethane	0.696	0.650	0.300	6.60	25.0
Nitrobenzene	0.368	0.367	0.200	0.30	25.0
Isophorone	0.814	0.870	0.400	6.90	25.0
2-Nitrophenol	0.181	0.193	0.100	6.70	25.0
2,4-Dimethylphenol	0.321	0.326	0.200	1.40	25.0
bis(2-Chloroethoxy) methane	0.479	0.528	0.300	10.1	25.0
2,4-Dichlorophenol	0.287	0.285	0.200	0.50	25.0
1,2,4-Trichlorobenzene	0.321	0.333	0.200	3.70	25.0
Naphthalene	0.954	1.028	0.700	7.80	25.0
4-Chloroaniline	0.386	0.408		5.70	
Hexachlorobutadiene	0.197	0.207		5.20	
4-Chloro-3-methylphenol	0.327	0.318	0.200	2.70	25.0
2-Methylnaphthalene	0.669	0.671	0.400	0.30	25.0
Hexachlorocyclopentadiene	0.170	0.165		3.00	
2,4,6-Trichlorophenol	0.314	0.321	0.200	2.40	25.0
2,4,5-Trichlorophenol	0.336	0.328	0.200	2.30	25.0
2-Chloronaphthalene	0.900	0.922	0.300	2.50	25.0
2-Nitroaniline	0.332	0.320		3.10	
Dimethylphthalate	1.20	1.34		11.7	
Acenaphthylene	1.45	1.52	1.000	5.20	25.0
2,6-Dinitrotoluene	0.288	0.286	0.200	0.90	25.0
3-Nitroaniline	0.246	0.227		7.50	
Acenaphthene	1.02	1.06	0.300	3.70	25.0
2,4-Dinitrophenol	0.085	0.066		22.5	
4-Nitrophenol	0.084	0.067		20.3	
Dibenzofuran	1.40	1.48	0.800	6.20	25.0
2,4-Dinitrotoluene	0.345	0.376	0.200	8.80	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-A Calibration Date: 03-26-94 Time: 13:07  
 Lab File ID: A1004 Init. Calib. Date(s): 02-08-94 03-26-94  
 Init. Calib. Times: 11:52 11:07

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.34	1.46		8.70	
4-Chlorophenyl-phenylether	0.617	0.656	0.400	6.40	25.0
Fluorene	1.18	1.32	0.900	11.4	25.0
4-Nitroaniline	0.237	0.243		2.20	
4,6-Dinitro-2-methylphenol	0.092	0.088		4.10	
N-Nitrosodiphenylamine (1)	0.399	0.291		27.0	
4-Bromophenyl-phenylether	0.185	0.205	0.100	11.0	25.0
Hexachlorobenzene	0.213	0.219	0.100	2.50	25.0
Pentachlorophenol	0.086	0.069	0.050	20.1	25.0
Phenanthrene	0.843	0.438	0.700	11.2	25.0
Anthracene	0.877	0.944	0.700	7.60	25.0
Carbazole	0.762	0.783		2.70	
Di-n-butylphthalate	1.07	1.37		28.6	
Fluoranthene	0.904	1.10	0.600	10.8	25.0
Pyrene	1.36	1.43	0.600	4.70	25.0
Butylbenzylphthalate	0.745	0.801		7.50	
3,3'-Dichlorobenzidine	0.436	0.462		6.20	
Benzo(a)anthracene	1.27	1.23	0.800	3.3	25.0
Chrysene	1.18	1.18	0.700	0.2	25.0
bis(2-Ethylhexyl)phthalate	1.18	1.31		11.2	
Di-n-octylphthalate	2.40	3.47		19.8	
Benzo(b)fluoranthene	1.77	1.41	0.700	20.2	25.0
Benzo(k)fluoranthene	1.73	1.99	0.700	15.1	25.0
Benzo(a)pyrene	1.38	1.37	0.700	0.5	25.0
Indeno(1,2,3-cd)pyrene	1.38	1.24	0.500	9.80	25.0
Dibenz(a,h)anthracene	1.11	0.998	0.400	10.4	25.0
Benzo(g,h,i)perylene	1.10	0.937	0.500	14.5	25.0
Nitrobenzene-d5	0.363	0.339	0.200	6.40	25.0
2-Fluorobiphenyl	0.987	1.064	0.700	7.80	25.0
Terphenyl-d14	0.998	1.03	0.500	2.80	25.0
Phenol-d5	1.38	1.42	0.800	2.80	25.0
2-Fluorophenol	0.987	1.06	0.600	7.80	25.0
2,4,6-Tribromophenol	0.163	0.164		0.5	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine  
 All other compounds must meet a minimum RRF of 0.010.

88  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0150

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): A1004 Date Analyzed: 3-26-94  
 Instrument ID: MSD-D, MSD-A Time Analyzed: 1307  
(DA)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT
12 HOUR STD	48946	10.20	224982	12.77	190807	16.68
UPPER LIMIT	97892	10.70	449964	13.27	381614	17.18
LOWER LIMIT	24473	9.70	381614	12.27	95403	16.18
EPA SAMPLE NO.						
01	SBIKI	10.20	224180	12.76	181868	16.70
02	SBIK1B5	10.20	241031	12.77	193801*	16.70
03	C6527	10.20	117097	12.76	* 88196	16.71
04	C6527MS	10.22	129362	12.77	102374	16.71
05	C6527MSD	10.23	129481	12.77	105548	16.72
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IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 (NPT) = Naphthalene-d8  
 IS3 (ANT) = Acenaphthene-d10

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

# Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

8C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0151

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): A1004 Date Analyzed: 3-26-94  
 Instrument ID: MSD-A Time Analyzed: 1307

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #	
12 HOUR STD	402948	20.08	285731	26.41	194161	31.91	
UPPER LIMIT	805896	20.58	571462	26.91	388322	32.41	
LOWER LIMIT	201474	19.58	142865	25.91	97080	31.41	
EPA SAMPLE NO.							
01	SBIKI	339267	20.09	320434	26.42	202998	31.91
02	SBIKIBS	408439	20.10	270773	26.43	198450	31.95
03	C6527	*170858	20.10	*11690	26.41	*75789	31.95
04	C6527MS	*135488	20.10	*130243	26.43	*75172	31.97
05	C6527MSD	*190047	20.11	*118690	26.44	*71492	31.99
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IS4 (PHN) = Phenanthrene-d10  
 IS5 (CRY) = Chrysene-d12  
 IS6 (PRY) = Perylene-d12

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

# Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

Data File: /chem/a900.i/a032694.b/a1015.d  
 Report Date: 31-Mar-1994 12:20

Page 1

## Analytical Services Corp.

## BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/a032694.b/a1015.d  
 Lab. Id. : Quant Type: ISTD  
 Inj Date : 26-MAR-94 21:16 Autotune Date: {  
 Operator : Tom Inst ID: a900.i  
 Smp Info : 15226N C6527  
 Misc Info : JM3564C,N2C40133,S:M1,30.1,1:10, BTL#1  
 Comment :  
 Method : /chem/a900.i/a032694.b/bnaclpa.m  
 Meth Date : 31-Mar-1994 10:55  
 Cal Date : 26-MAR-94 13:07 Cal File: a1004.d  
 Als bottle: 0  
 Dil Factor: 1.000 Target Version: Target 3.00  
 Integrator: HP RTE Compound Sublist: all.sub  
 Sample Matrix: WATER

Compounds	QUANT SIG		CONCENTRATIONS			
	MASS	RT REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/L)	
2-Fluorophenol	112.00	8.129 (0.795)	14386	19.5	9.74 (aR)	✓
\$ 4 Phenol-d5	99.00	9.568 (0.936)	22457	22.8	11.4	✓
* 9 1,4-Dichlorobenzene-d4	152.00	10.198 (1.000)	27753	40.0		
\$ 17 Nitrobenzene-d5	82.00	11.301 (0.885)	16412	16.5	8.26 (aR)	✓
* 25 Naphthalene-d8	136.00	12.764 (1.000)	117097	40.0		
\$ 35 2-Fluorobiphenyl	172.00	15.082 (0.903)	44042	21.4	10.7 (R)	✓
36 2-Chloronaphthalene	162.00	15.713 (0.941)	2145	1.06	<del>0.528 (aR)</del>	
37 2-Nitroaniline	65.00	15.623 (0.935)	899	1.27	<del>0.637 (aQ)</del>	
38 Dimethylphthalate	163.00	15.984 (0.957)	1022	0.345	<del>0.172 (aQ)</del>	
40 Acenaphthylene	152.00	16.367 (0.980)	3618	1.08	<del>0.539 (aQ)</del>	
41 3-Nitroaniline	138.00	16.548 (0.991)	2800	5.59	2.80 (aQ)	
* 42 Acenaphthene-d10	164.00	16.706 (1.000)	88196	40.0		
45 4-Nitrophenol	109.00	17.158 (1.027)	3140	21.3	<del>10.7 (aQ)</del>	
48 Diethylphthalate	149.00	17.542 (1.050)	150	0.0466	<del>0.0233 (aQ)</del>	
49 4-Chlorophenyl-phenylether	204.00	17.768 (1.064)	995	0.687	<del>0.344 (aQ)</del>	
50 Fluorene	166.00	17.881 (1.070)	367	0.126	<del>0.0631 (a)</del>	
51 4-Nitroaniline	138.00	17.722 (1.061)	6510	12.2	<del>6.00 (aQ)</del>	
\$ 54 2,4,6-Tribromophenol	330.00	18.514 (1.108)	6514	18.0	9.03 (a)	✓
* 59 Phenanthrene-d10	188.00	20.098 (1.000)	170858	40.0		
60 Phenanthrene	178.00	20.120 (1.001)	536	0.134	<del>0.0669 (aQ)</del>	
61 Anthracene	178.00	20.279 (1.009)	446	0.111	<del>0.0553 (aQ)</del>	
62 Carbazole	167.00	20.528 (1.021)	172	0.0514	<del>0.0257 (aQ)</del>	
63 Di-n-butylphthalate	149.00	21.229 (1.056)	4872	0.832	<del>0.416 (a)</del>	
64 Fluoranthene	202.00	22.927 (1.141)	494	0.116	<del>0.0578 (aQ)</del>	
66 Pyrene	202.00	23.447 (0.888)	749	0.180	<del>0.0898 (aQ)</del>	
Terphenyl-d14	244.00	23.628 (0.895)	22426	7.48	3.74 (aR)	✓
68 Butylbenzylphthalate	149.00	25.009 (0.947)	1559	0.666	<del>0.333 (aQ)</del>	
70 bis(2-Ethylhexyl)phthalate	149.00	26.027 (0.985)	33336	8.72	4.36 (a)	✓
71 3,3'-Dichlorobenzidine	252.00	26.231 (0.993)	767	0.567	<del>0.284 (a)</del>	

ISC  
3-31-94



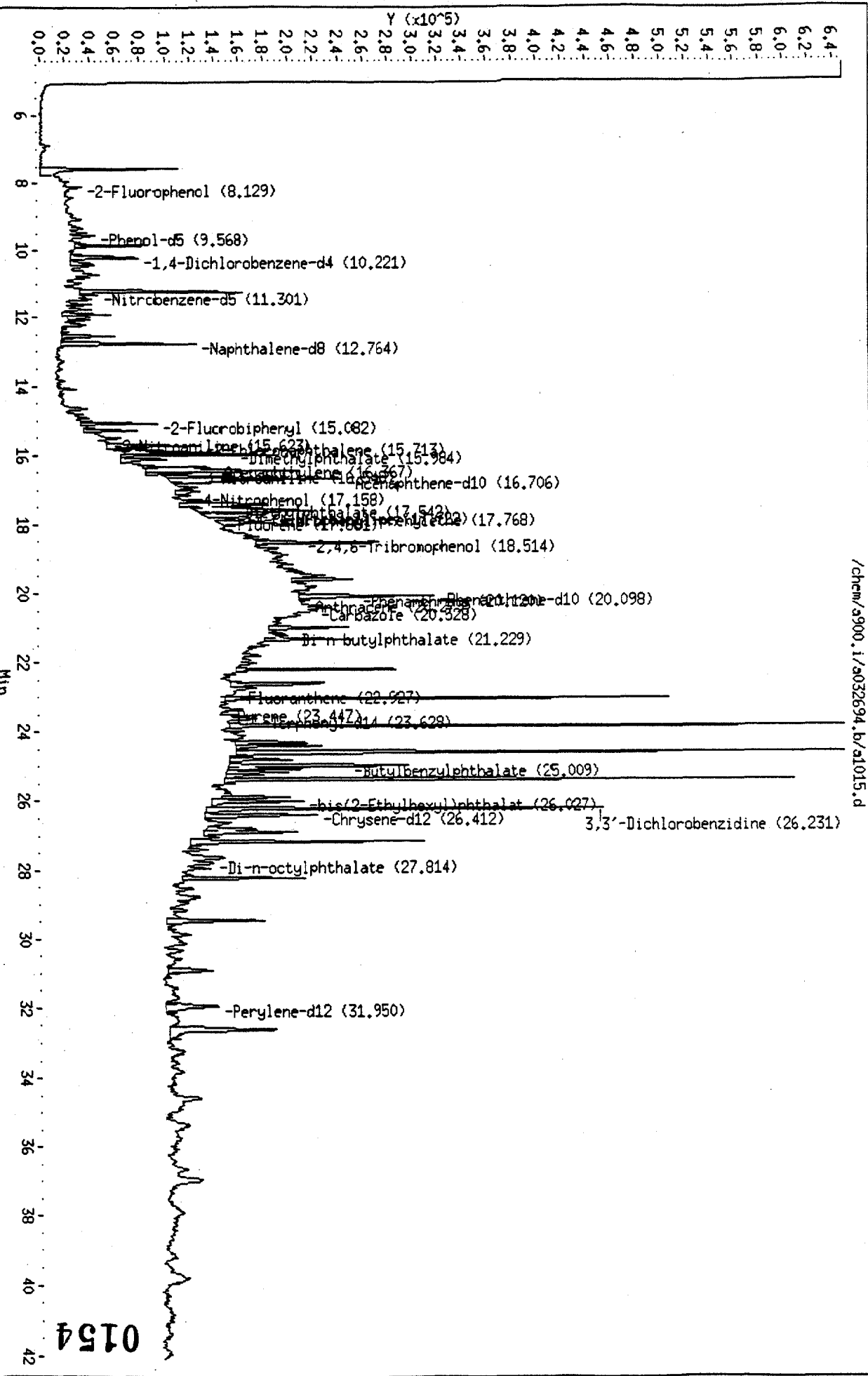
Data File: /chem/a900.i/a032694.b/a1015.d  
Report Date: 31-Mar-1994 12:20

Page 2

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)	
-----	----	--	-----	-----	-----	-----	
* 73 Chrysene-d12	240.00	26.412	(1.000)	116910	40.0		
75 Di-n-octylphthalate	149.00	27.814	(0.871)	1394	0.212	<del>0.106(a)</del>	
* 79 Perylene-d12	264.00	31.950	(1.000)	75789	40.0		

## QC Flag Legend

- T - Target compound detected outside RT window.
- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.



0154

Data File: /chem/a900.i/a032694.b/a1015.d

Page 2

Date : 26-MAR-94 21:16

Instrument : a900.i

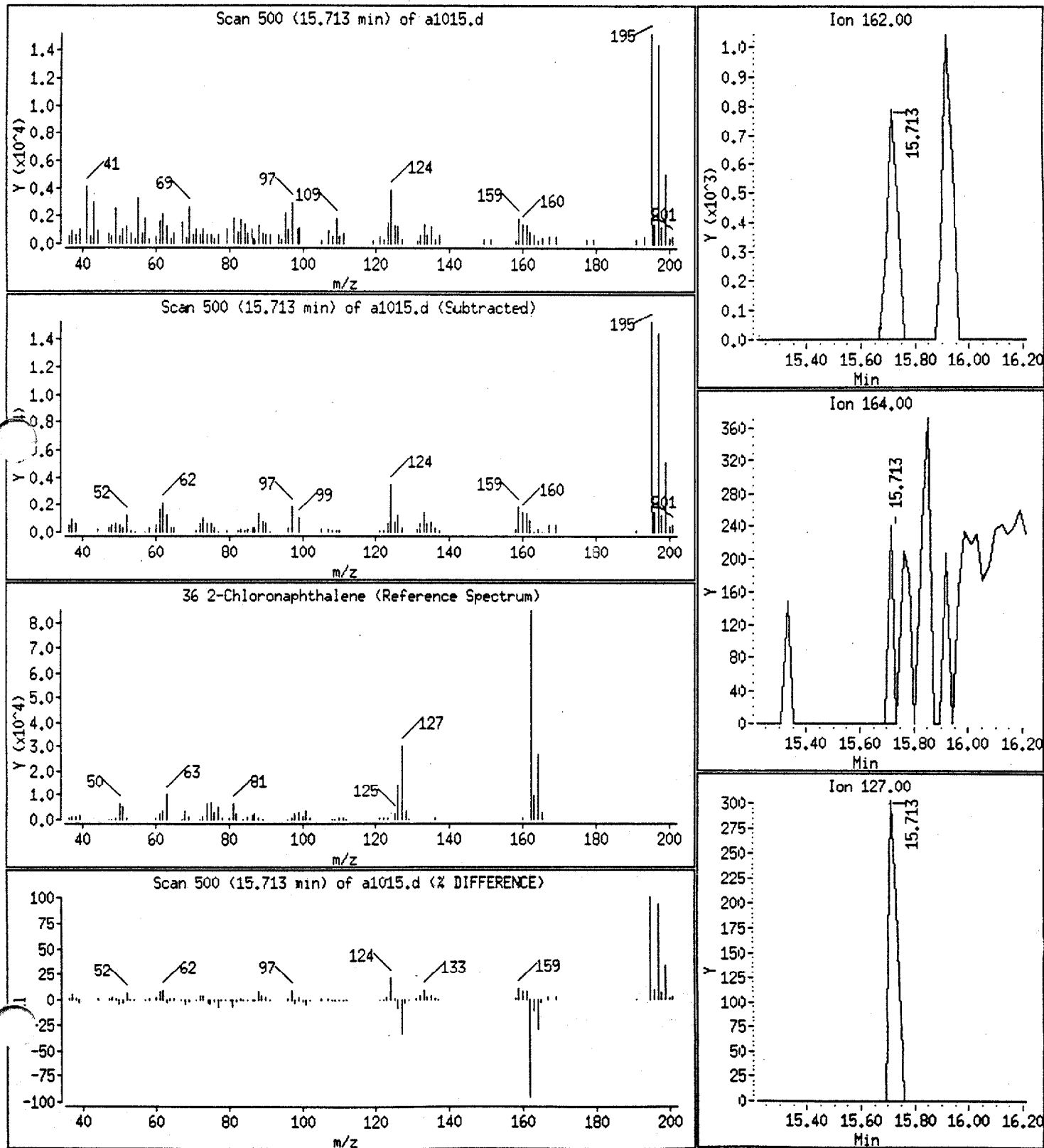
Sample ID :

Column phase : J&amp;W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

## 36 2-Chloronaphthalene



Data File: /chem/a900.i/a032694.b/a1015.d

Page 3

Date : 26-MAR-94 21:16

Instrument : a900.i

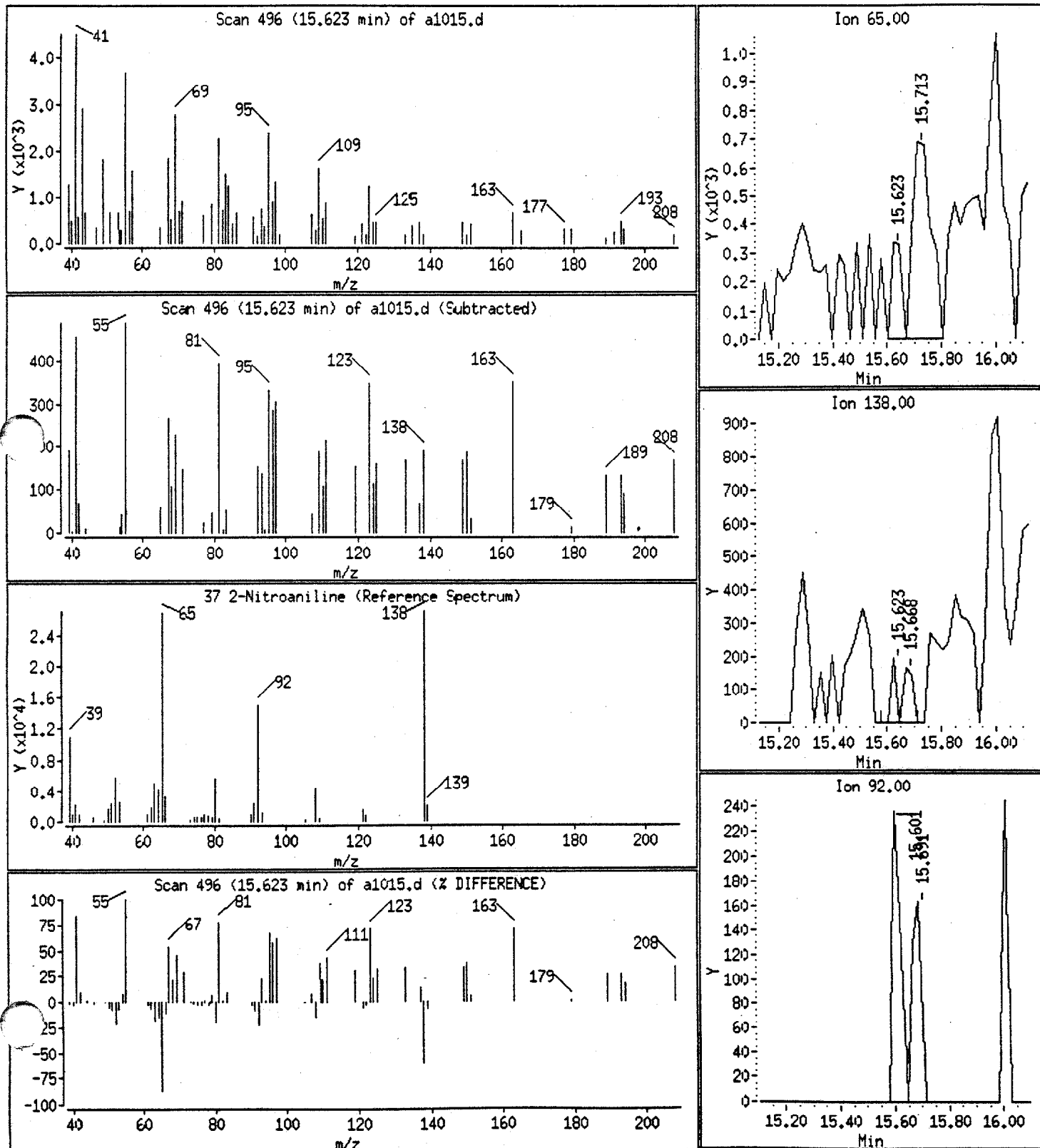
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Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

37 2-Nitroaniline



Data File: /chem/a900.i/a032694.b/a1015.d

Page 4

Date : 26-MAR-94 21:16

Instrument : a900.i

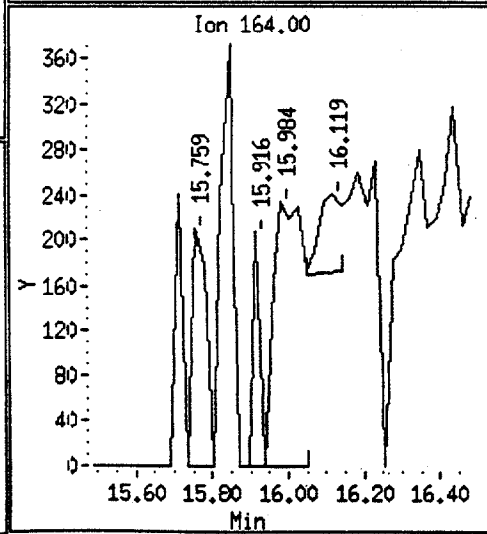
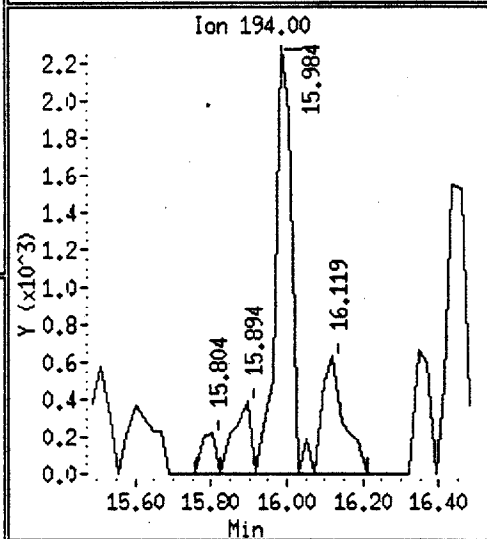
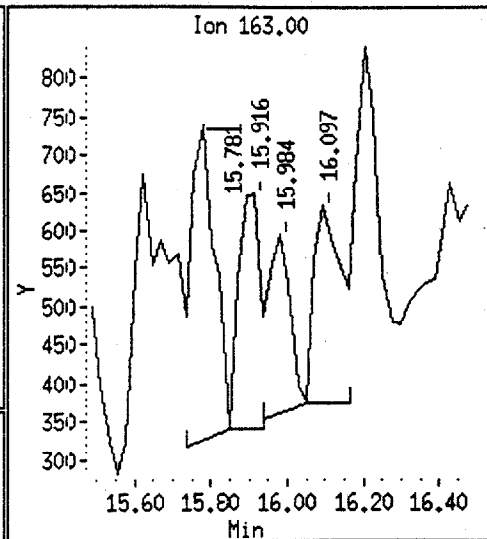
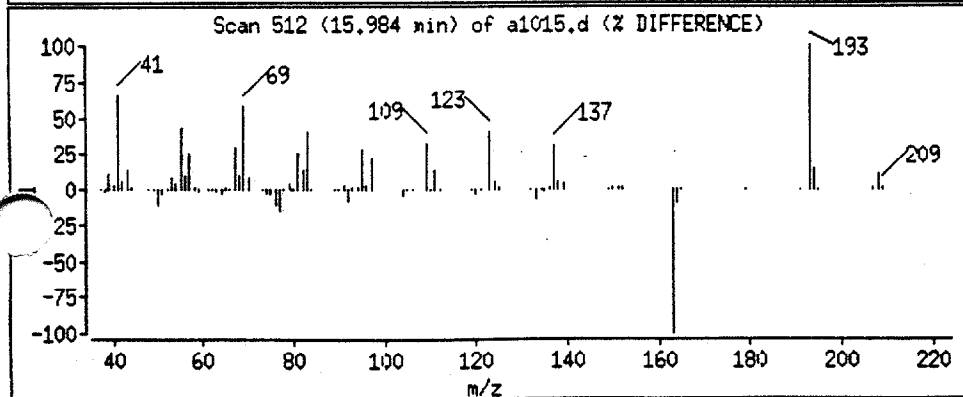
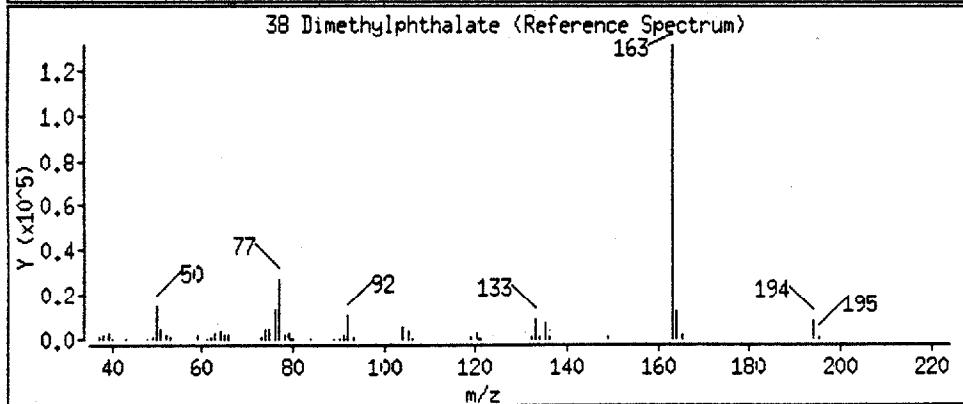
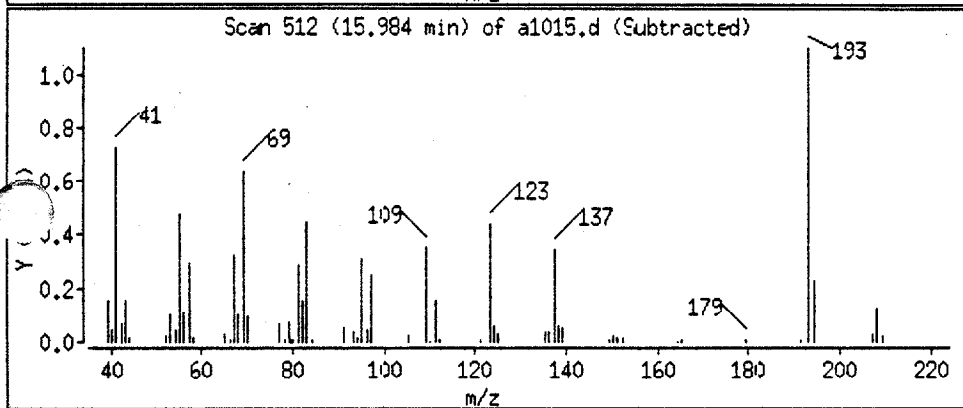
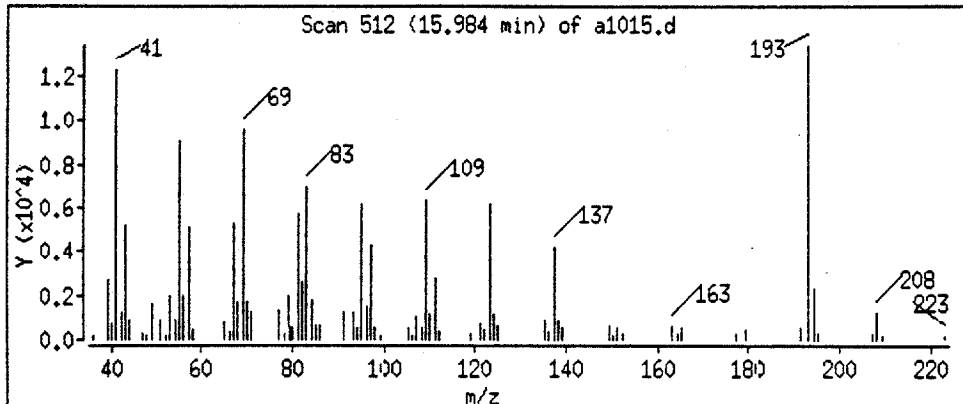
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

38 Dimethylphthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

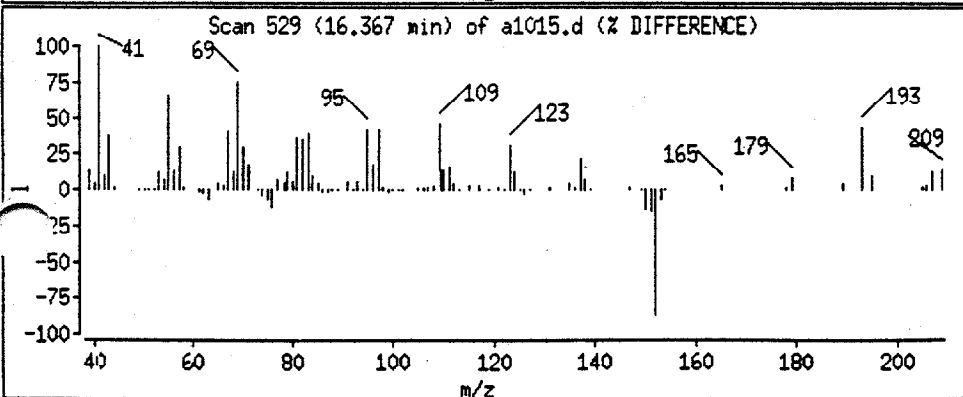
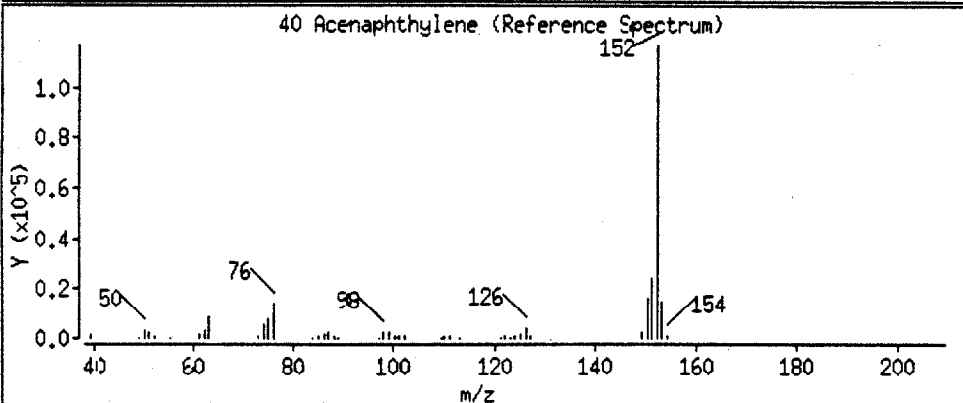
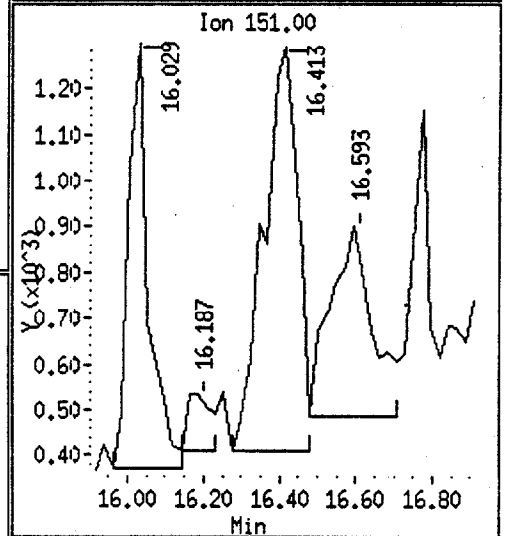
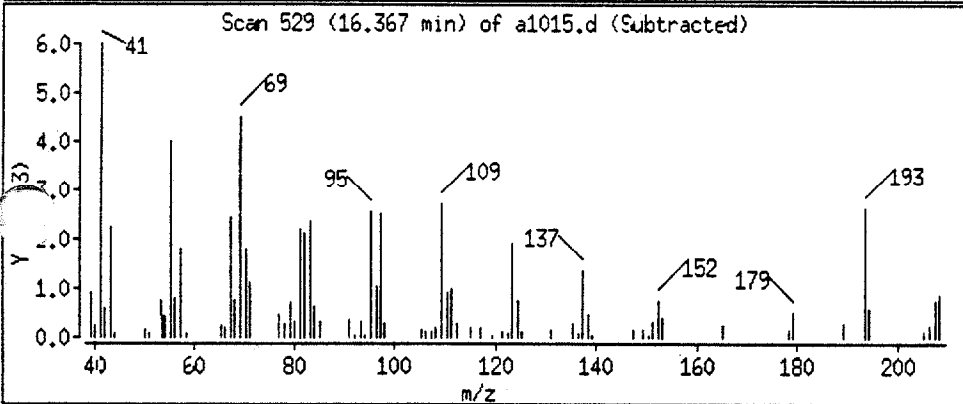
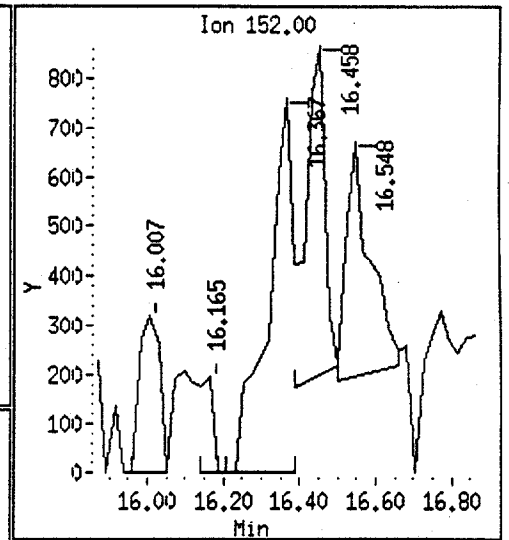
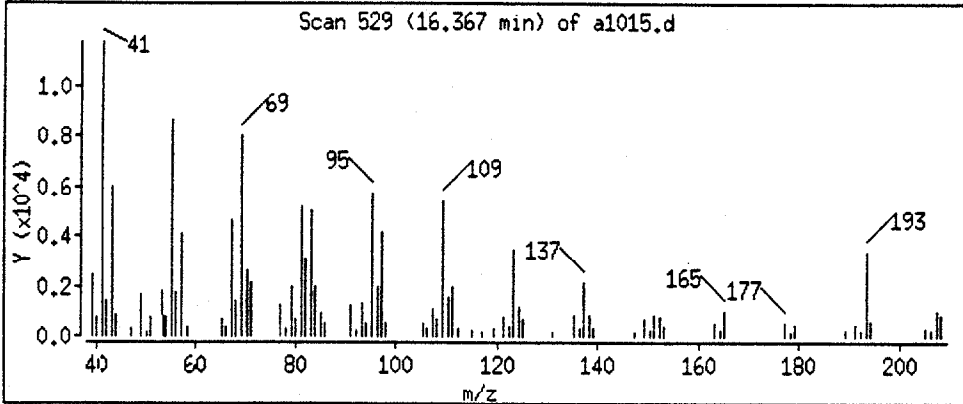
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

40 Acenaphthylene



Data File: /chem/a900.i/a032694.b/a1015.d

Page 6

Date : 26-MAR-94 21:16

Instrument : a900.i

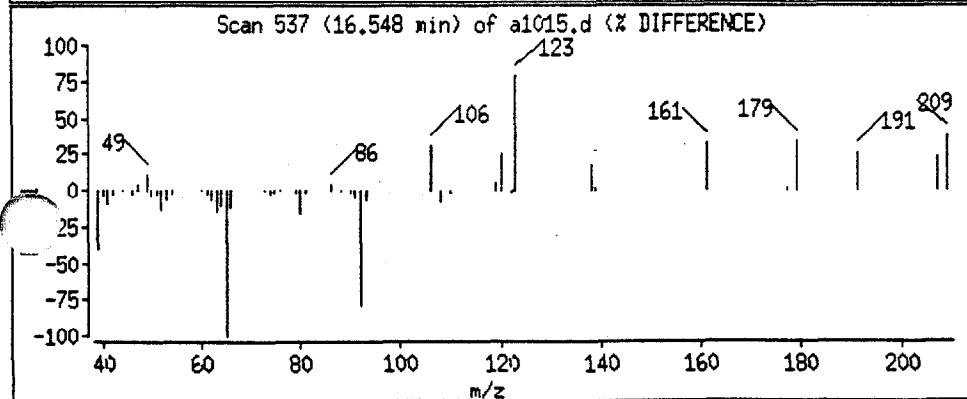
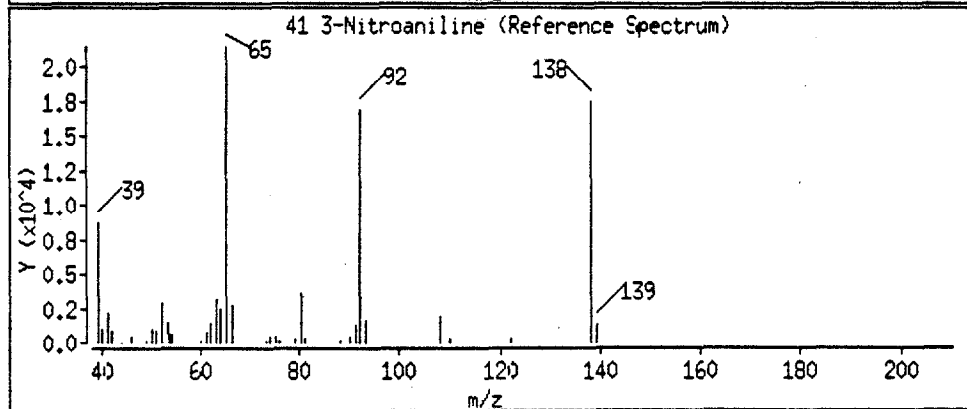
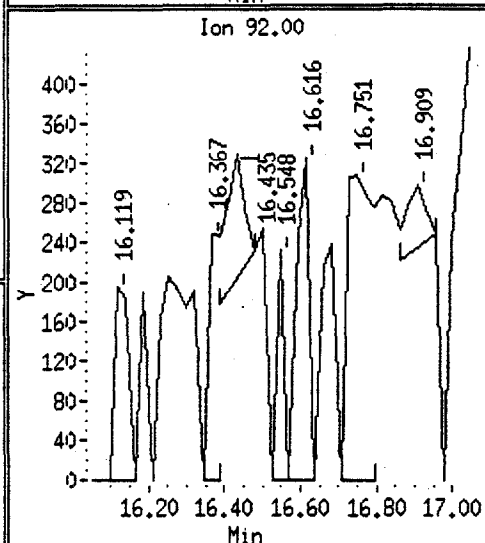
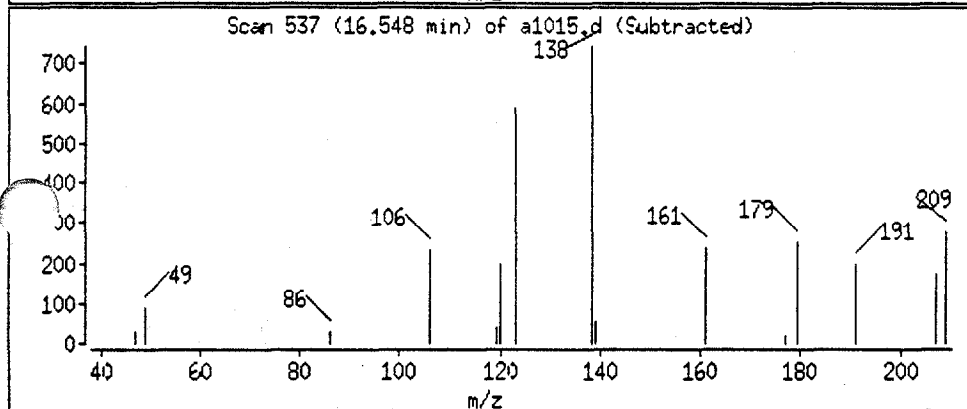
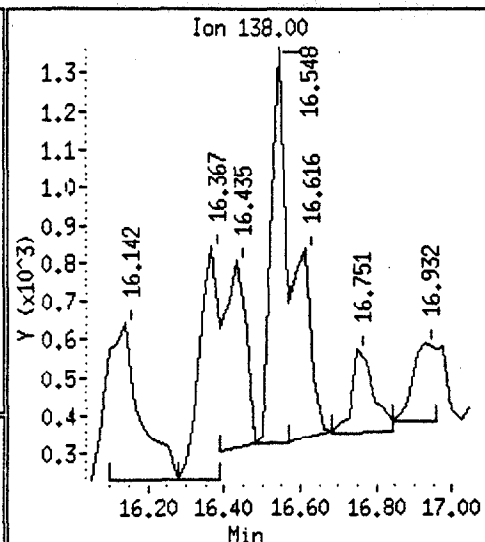
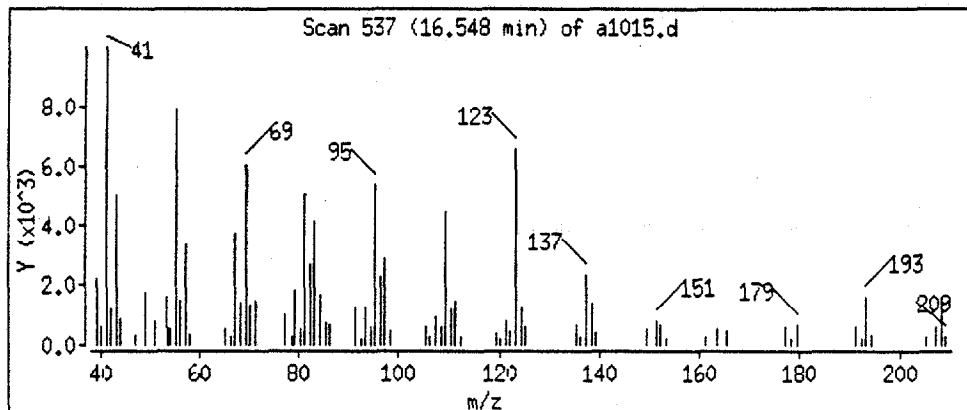
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

41 3-Nitroaniline



Data File: /chem/a900.i/a032694.b/a1015.d

Page 7

Date : 26-MAR-94 21:16

Instrument : a900.i

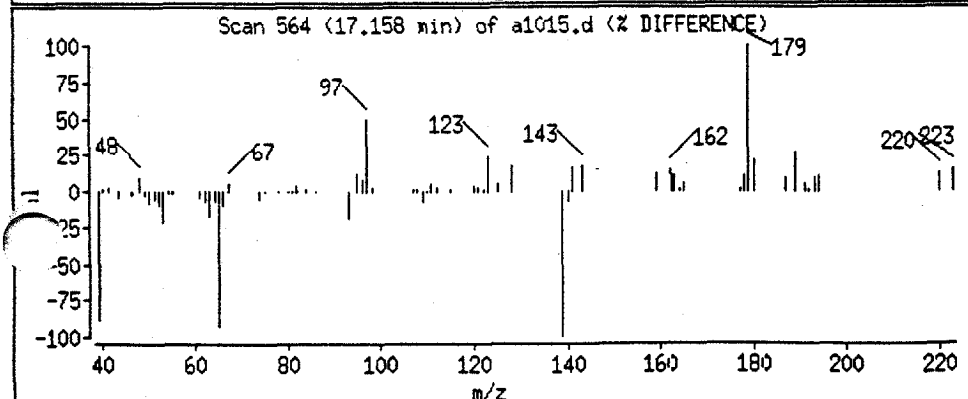
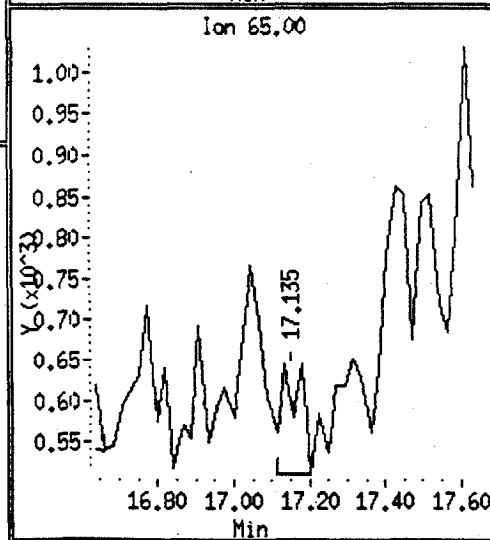
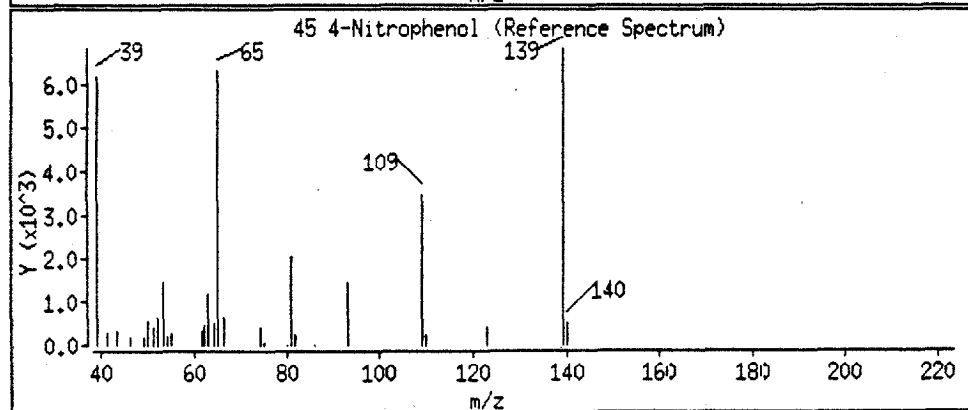
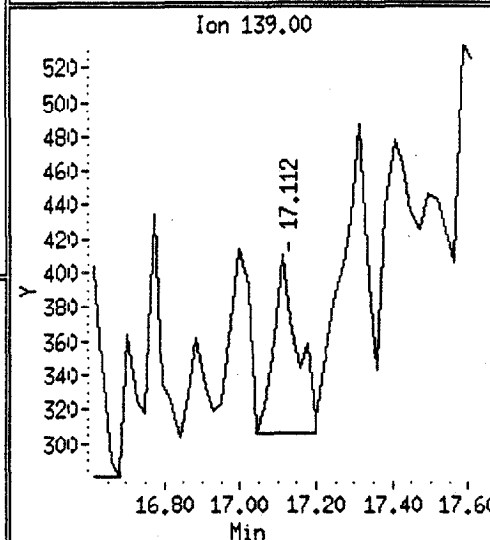
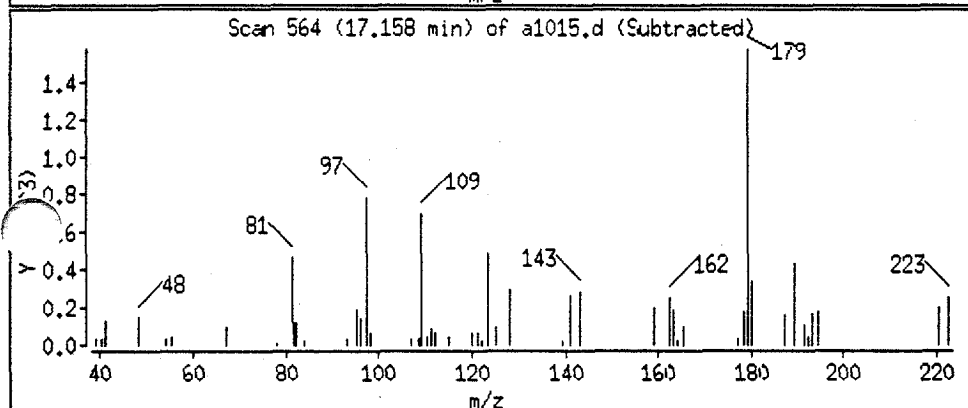
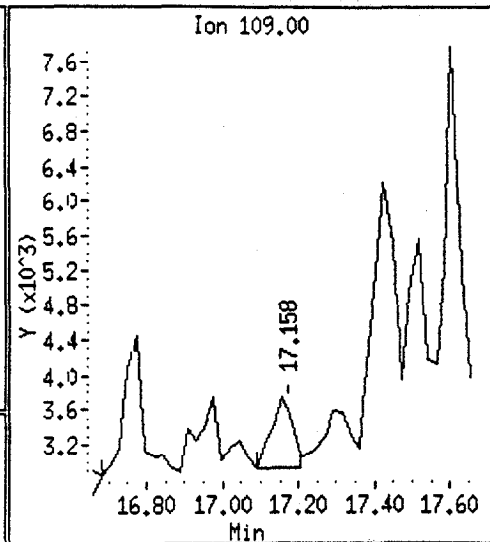
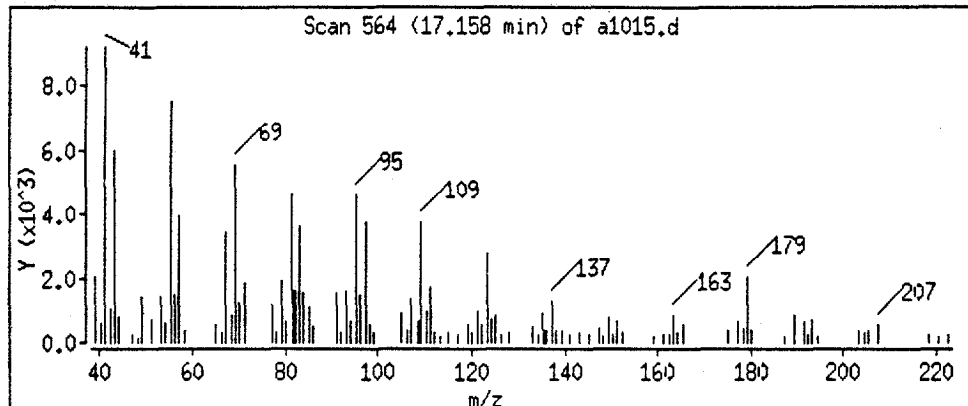
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

45 4-Nitrophenol





Data File: /chem/a900.i/a032694.b/a1015.d

Page 8

Date : 26-MAR-94 21:16

Instrument : a900.i

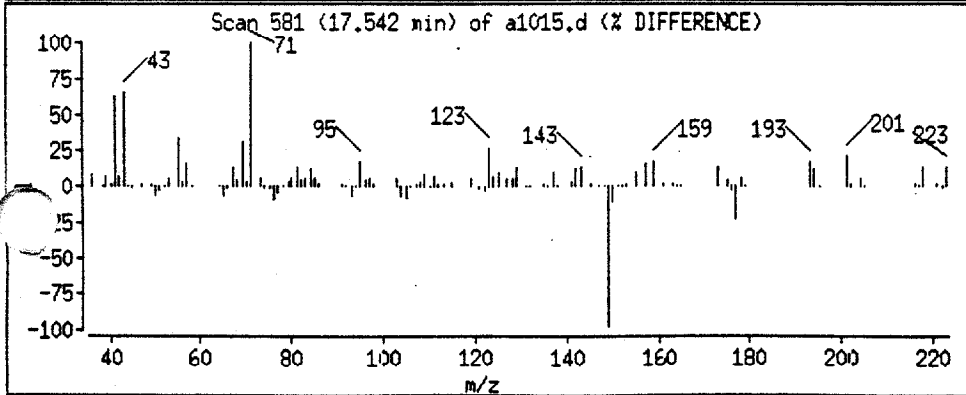
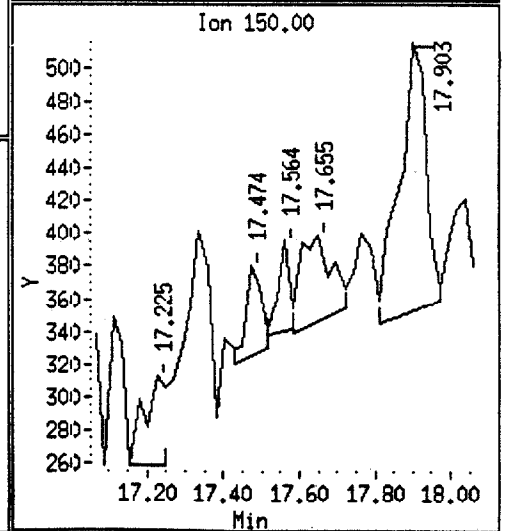
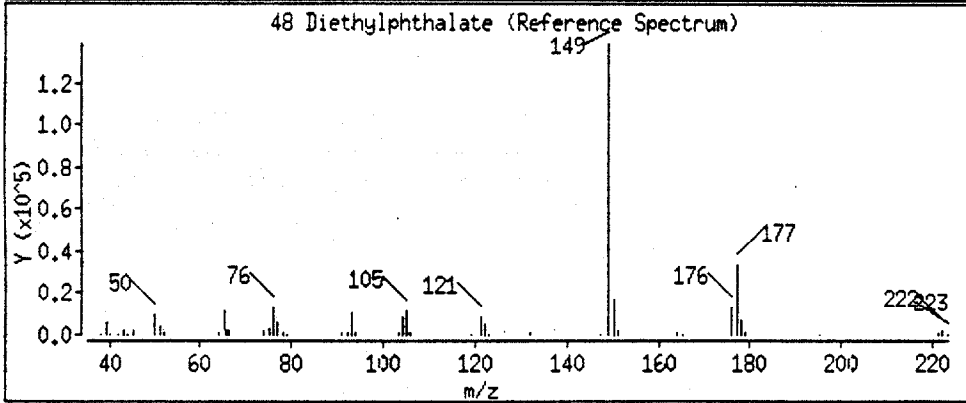
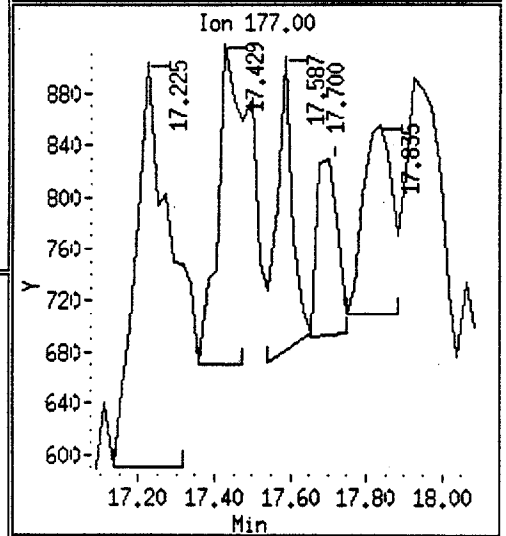
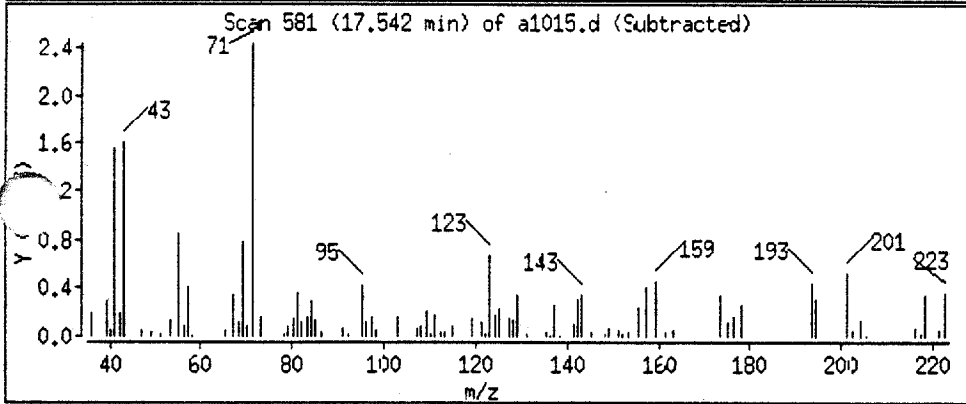
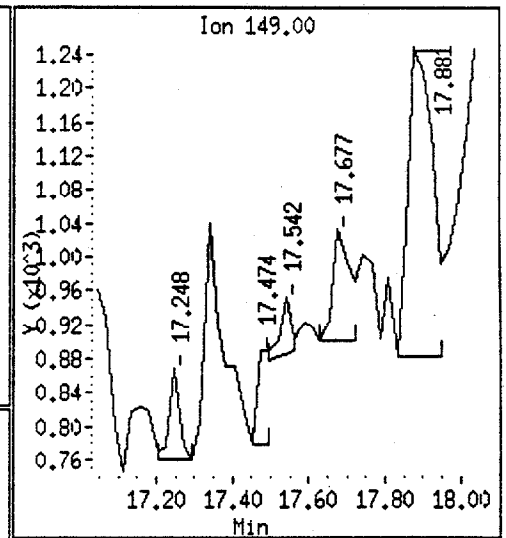
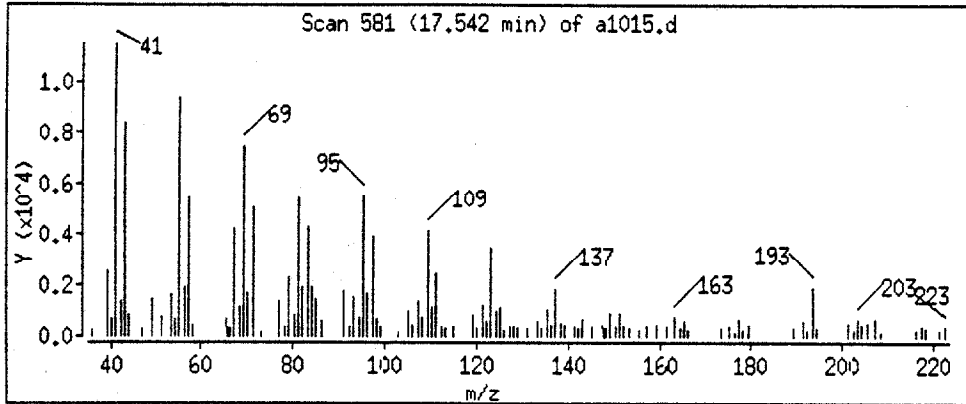
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

48 Diethylphthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

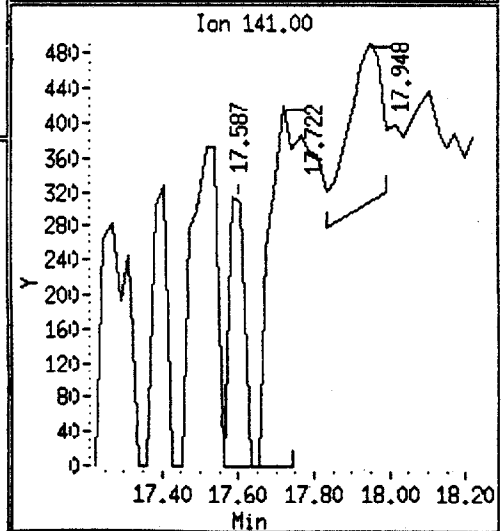
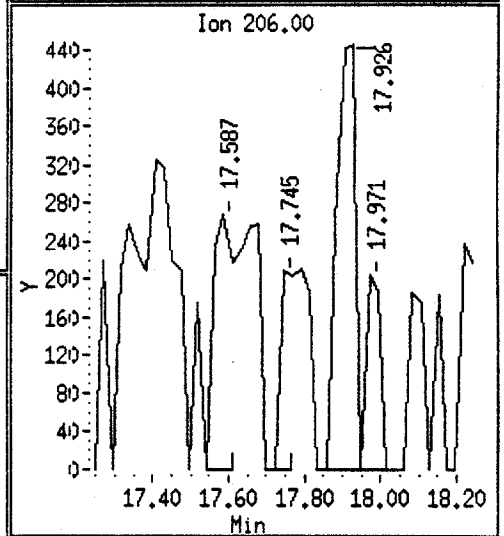
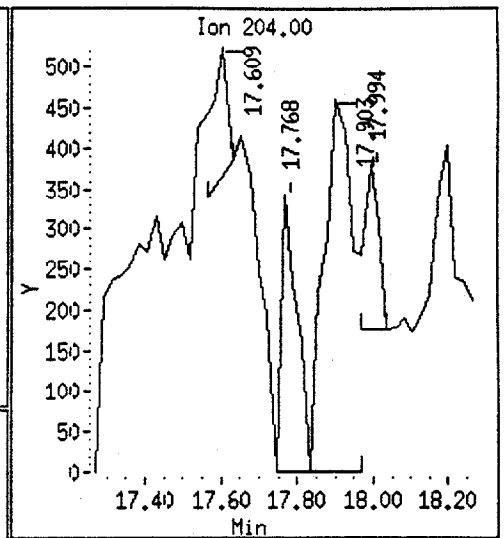
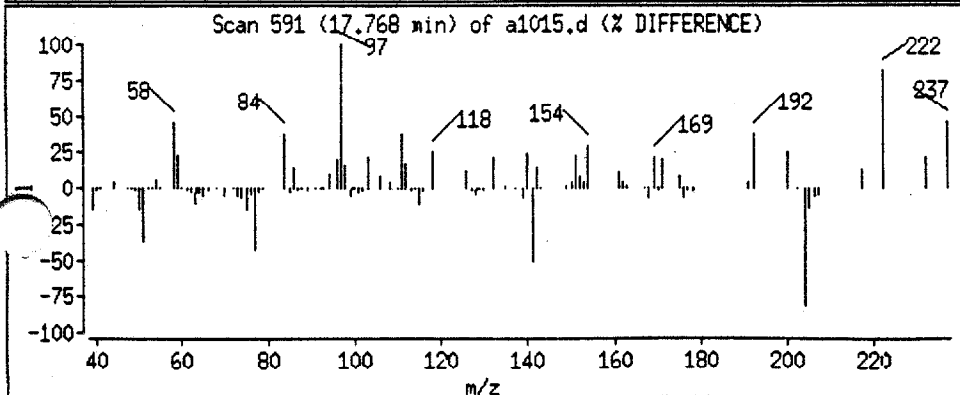
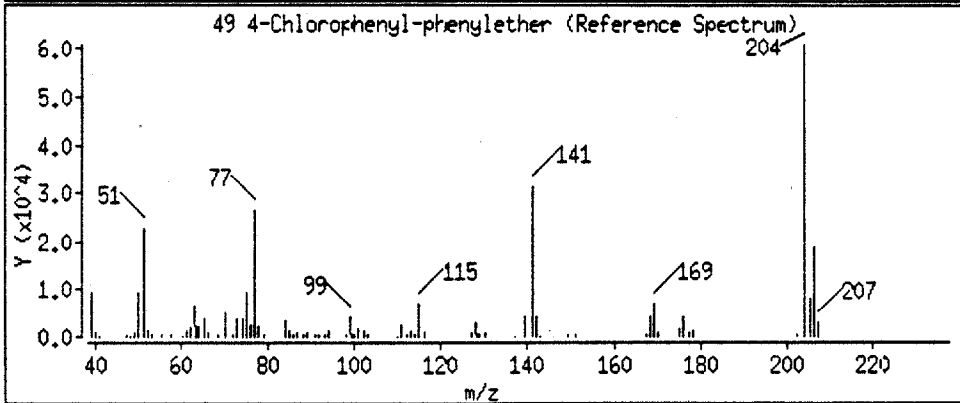
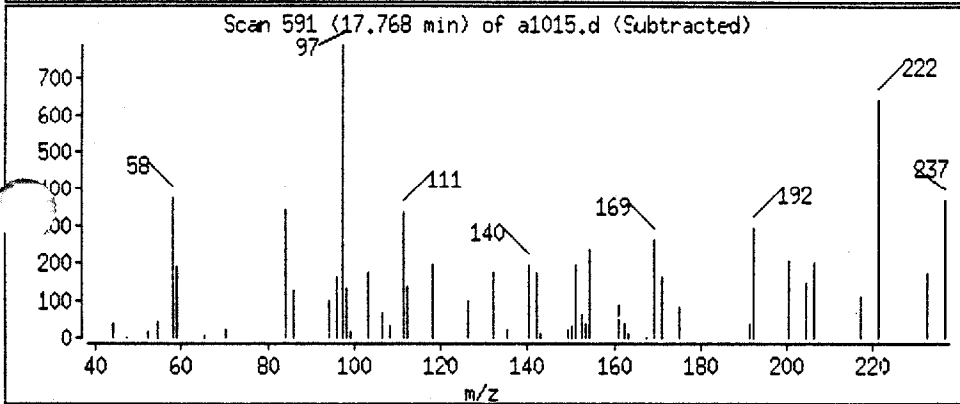
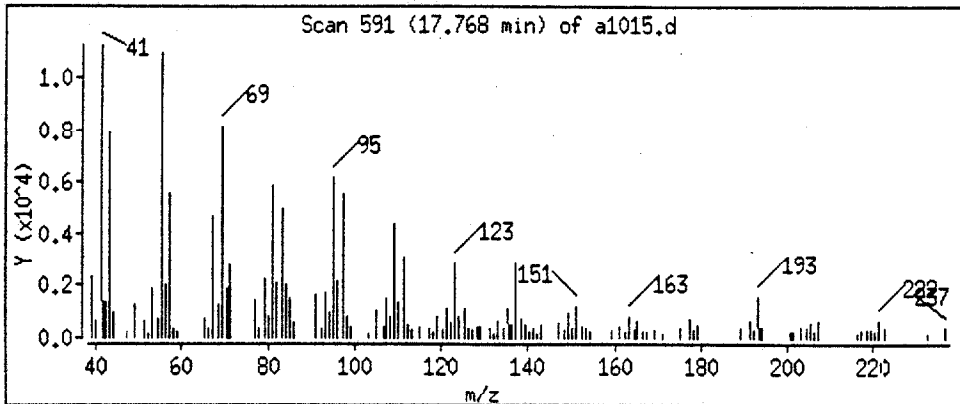
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

49 4-Chlorophenyl-phenylether



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

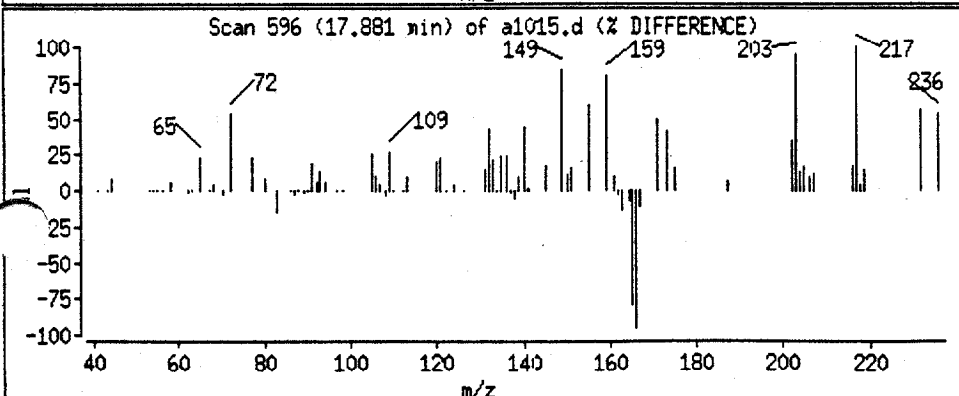
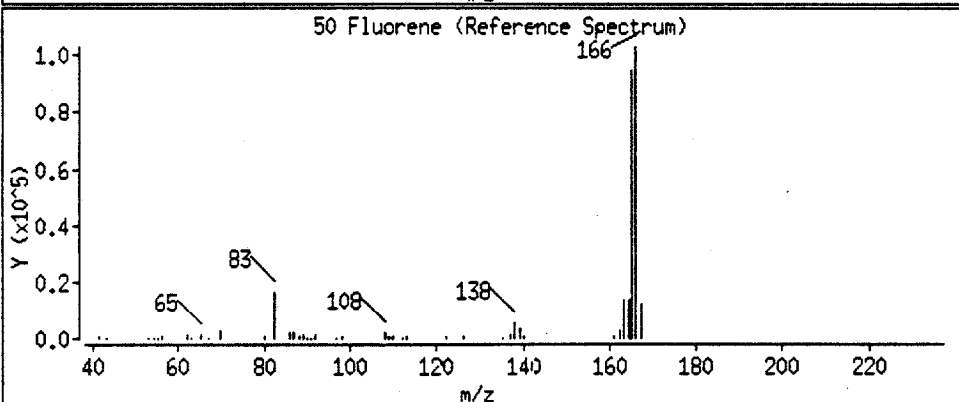
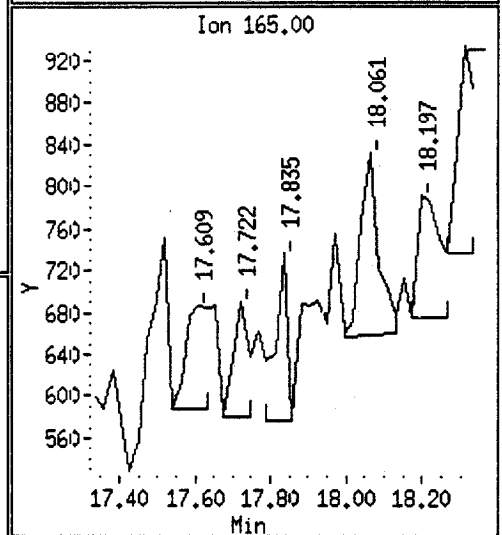
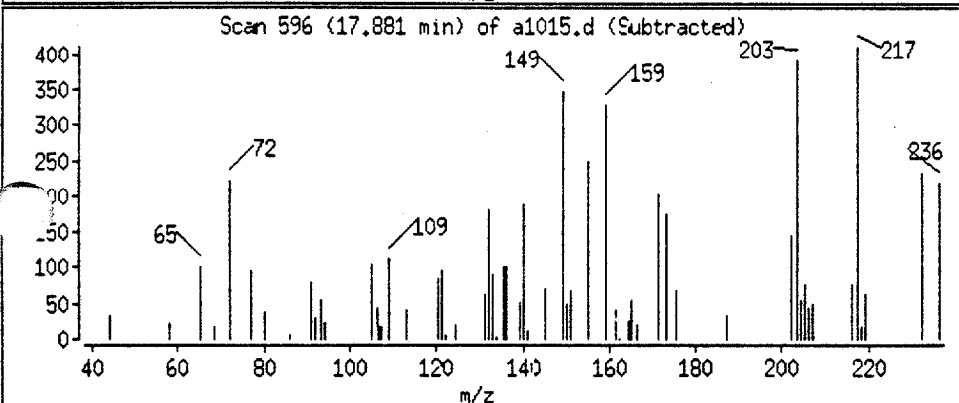
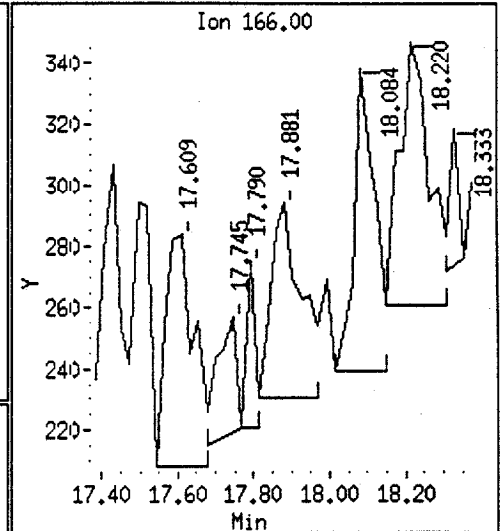
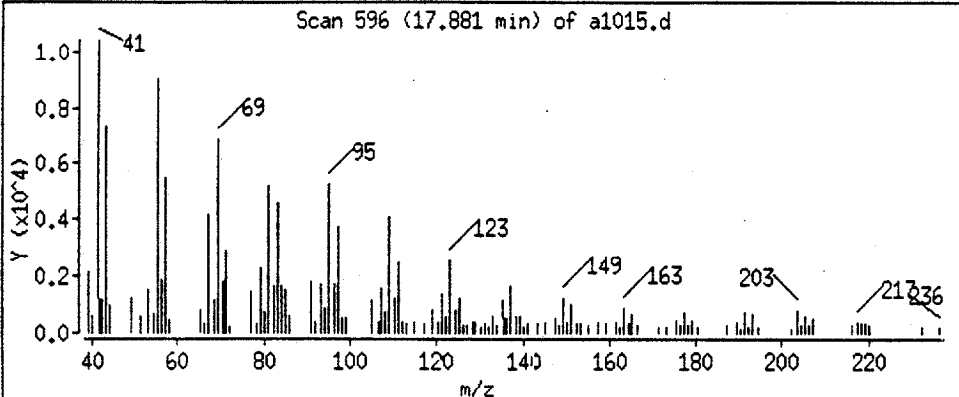
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

50 Fluorene



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

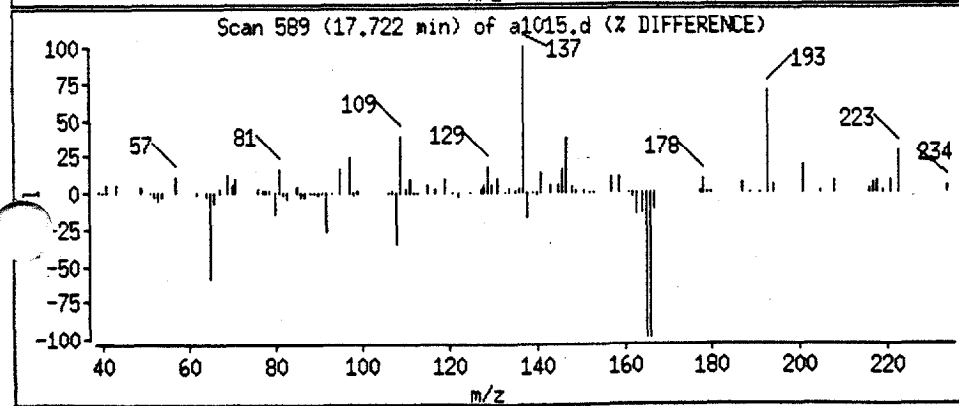
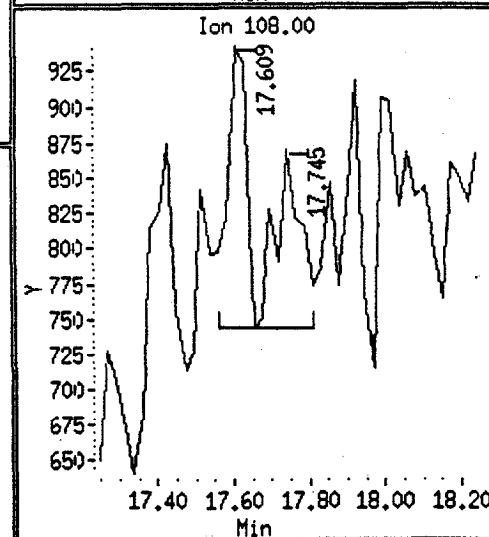
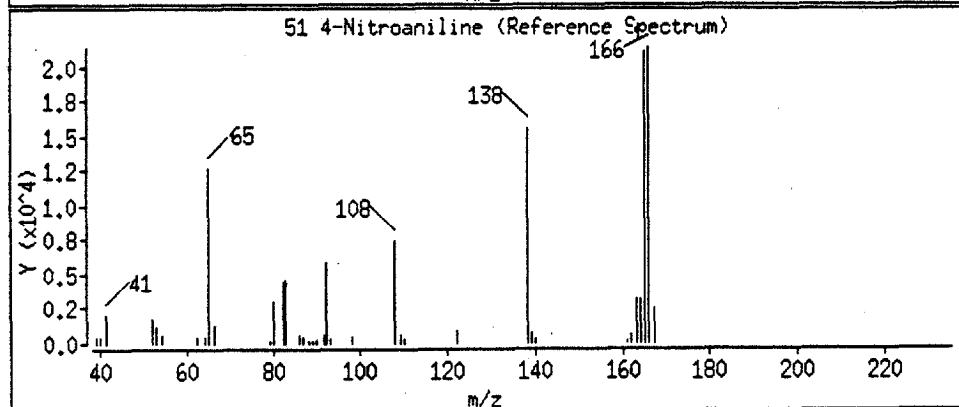
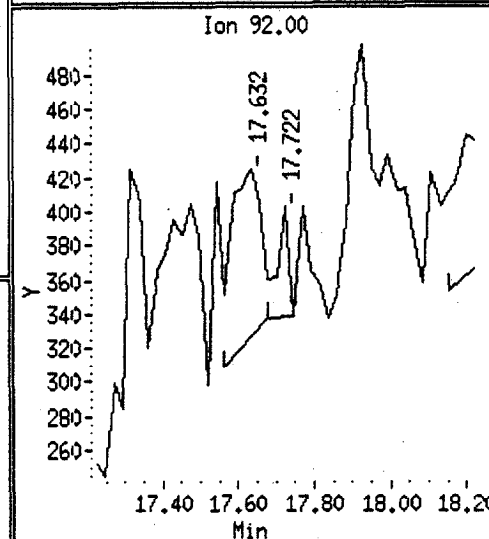
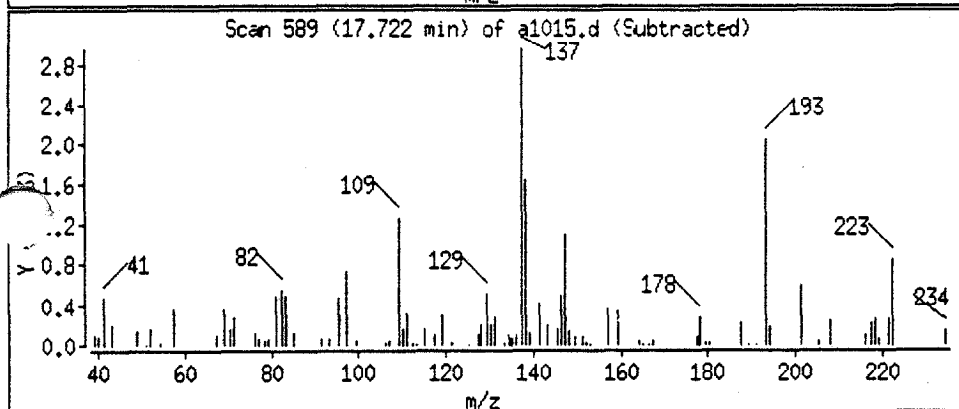
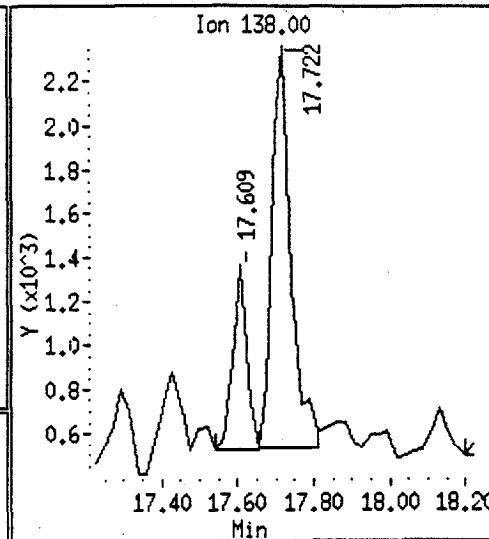
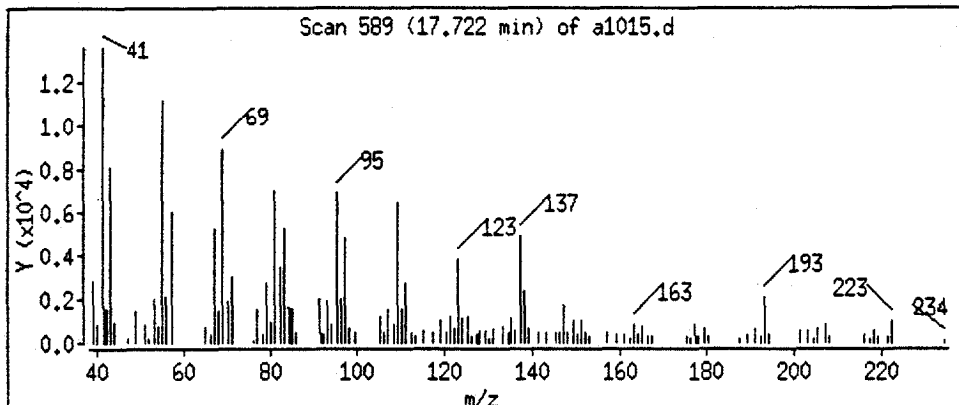
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

51 4-Nitroaniline



Data File: /chem/a900.i/a032694.b/a1015.d

Page 12

Date : 26-MAR-94 21:16

Instrument : a900.1

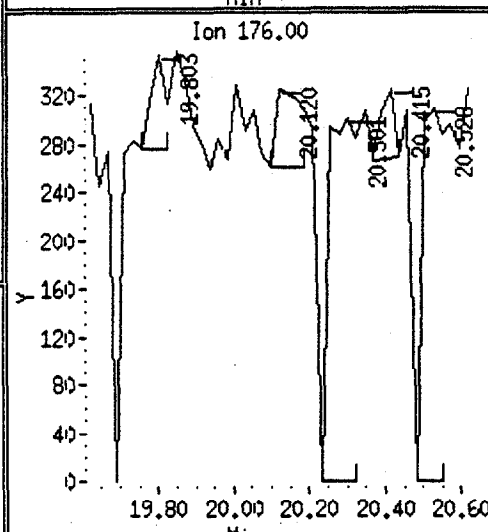
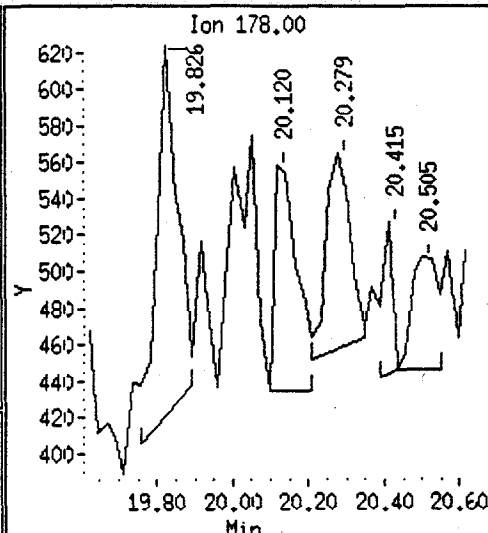
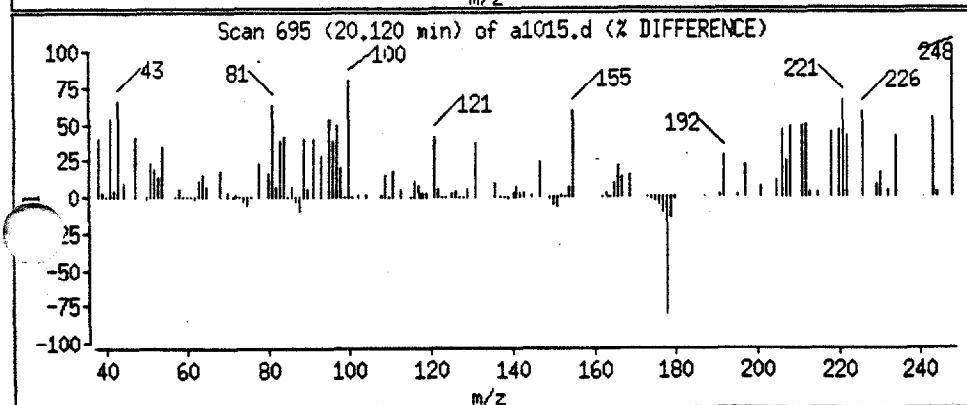
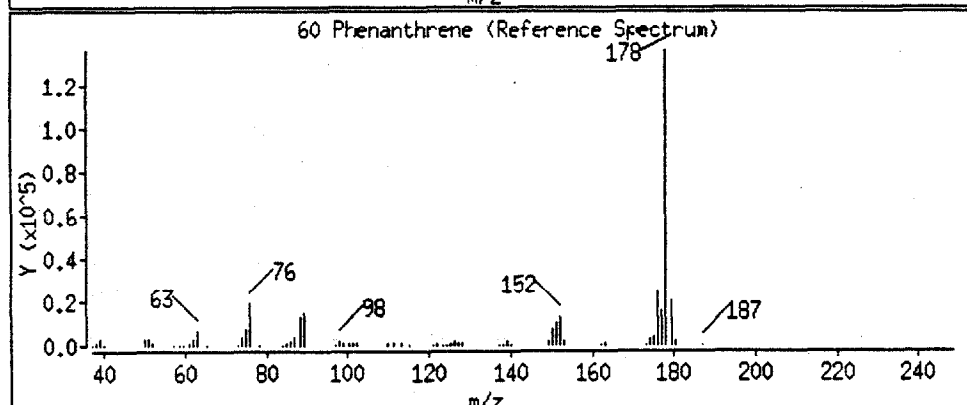
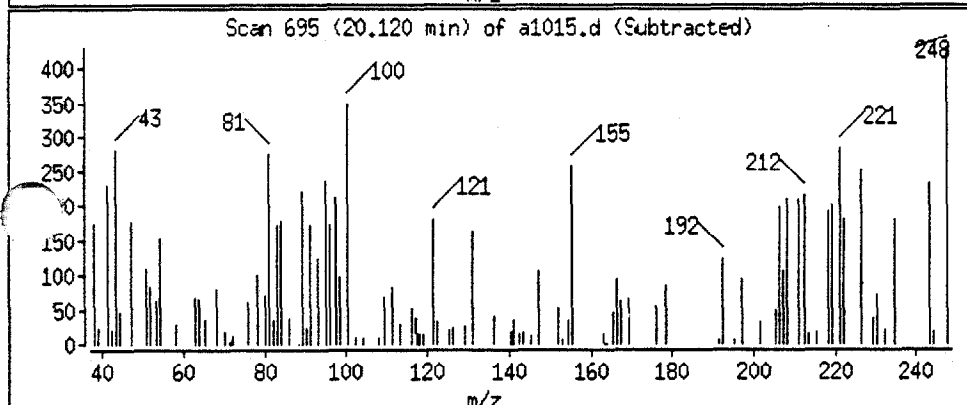
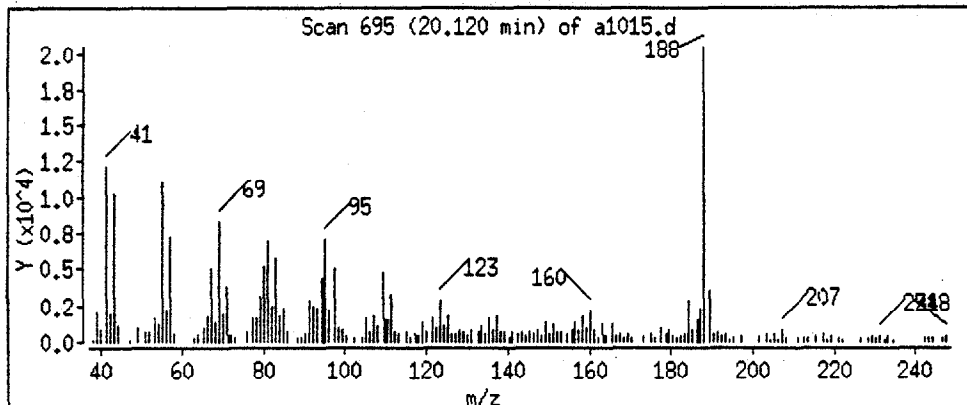
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

60 Phenanthrene



Data File: /chem/a900.1/a032694.b/a1015.d

Date: 26-MAR-94 21:16

Instrument: a900.i

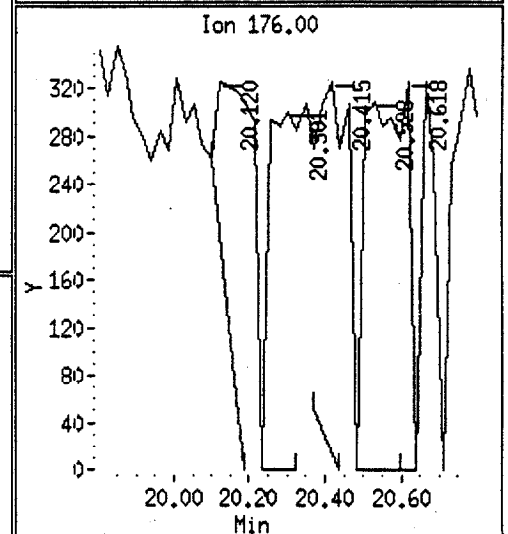
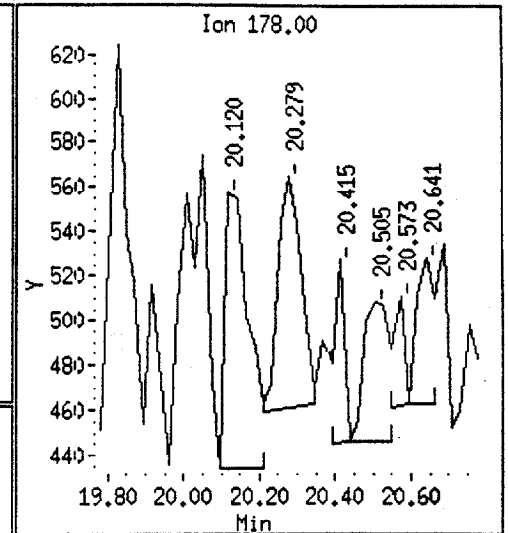
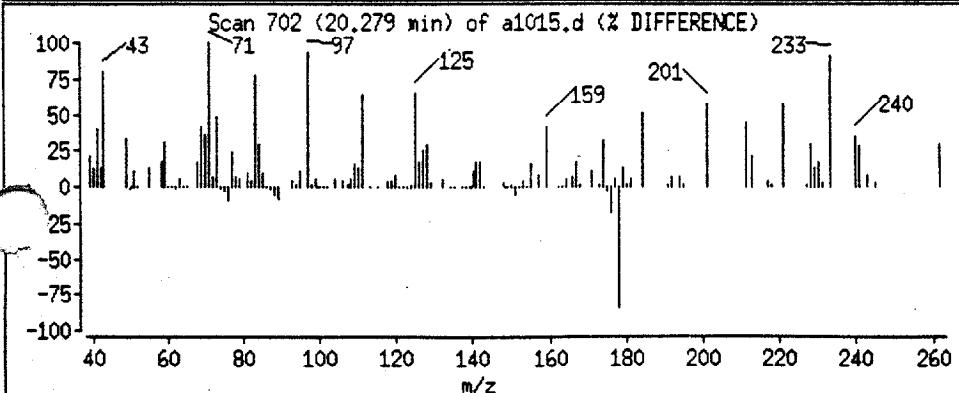
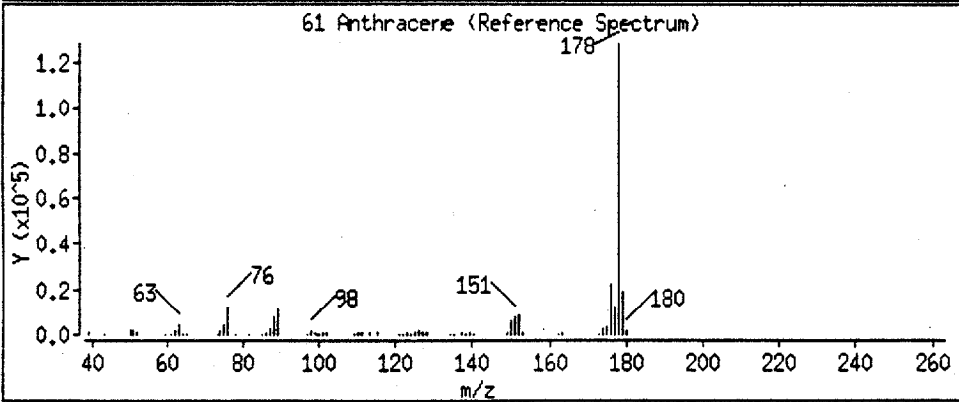
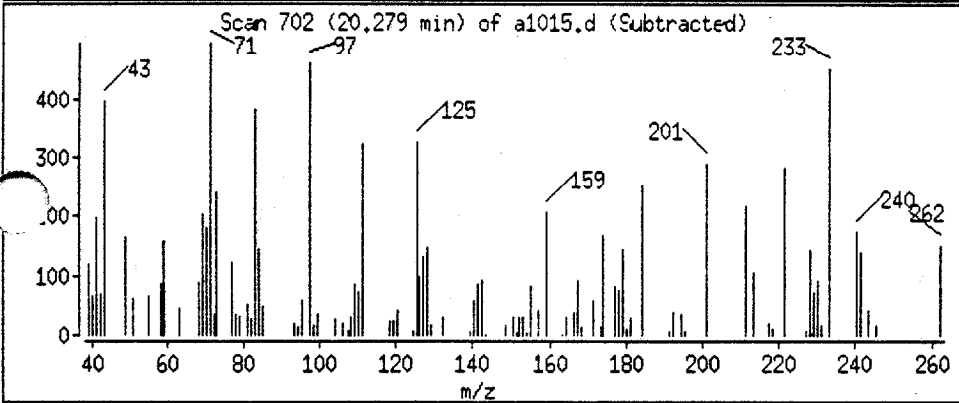
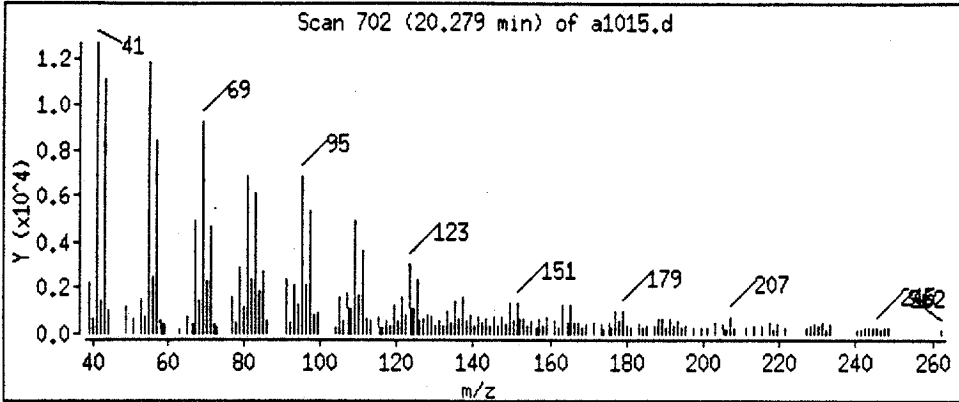
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

61 Anthracene



Data File: /chem/a900.i/a032694.b/a1015.d

Page 14

Date: 26-MAR-94 21:16

Instrument: a900.i

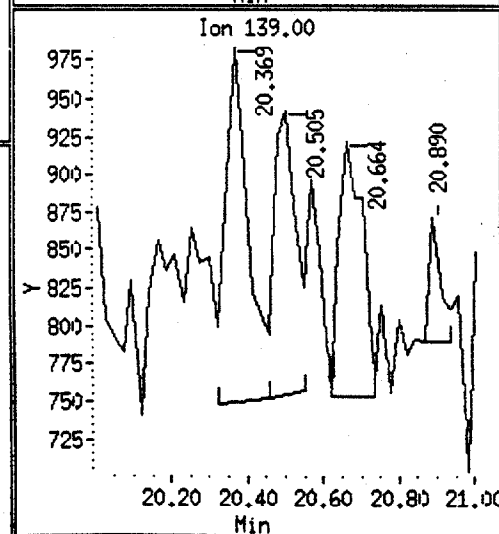
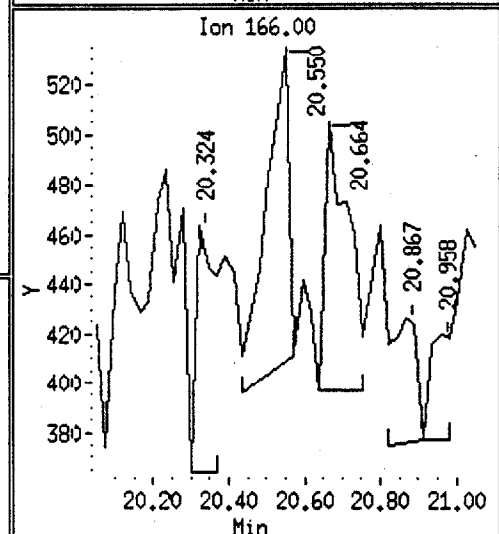
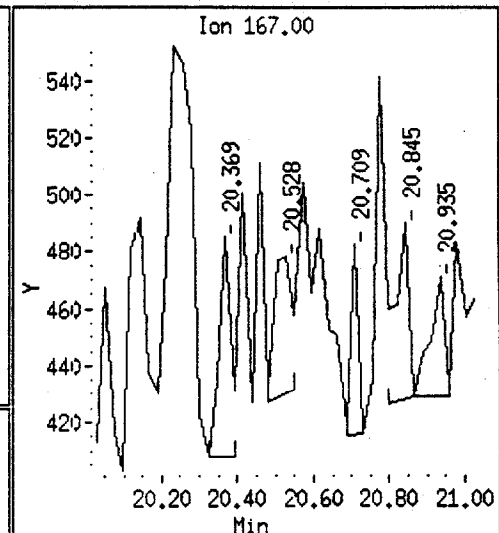
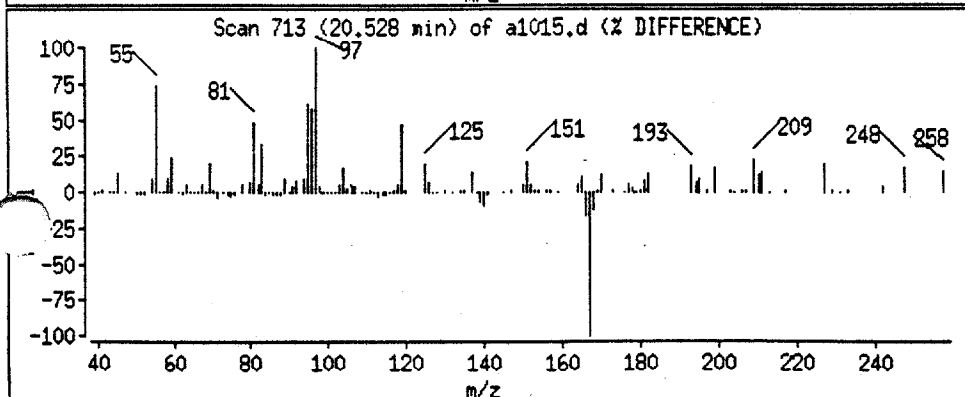
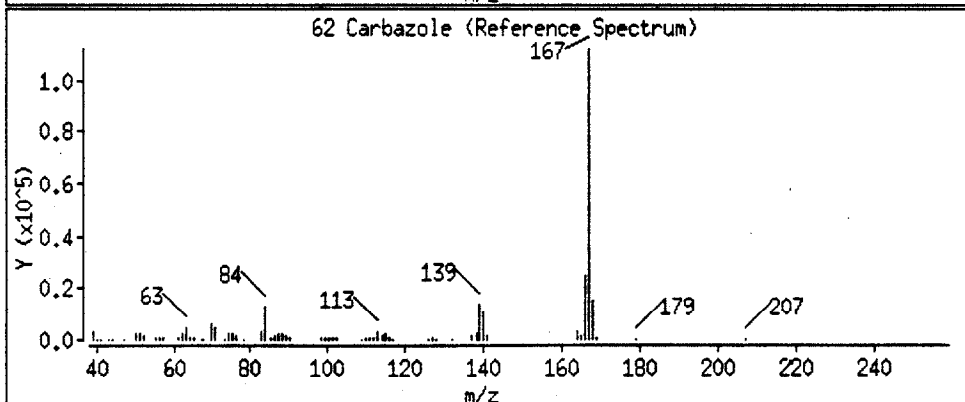
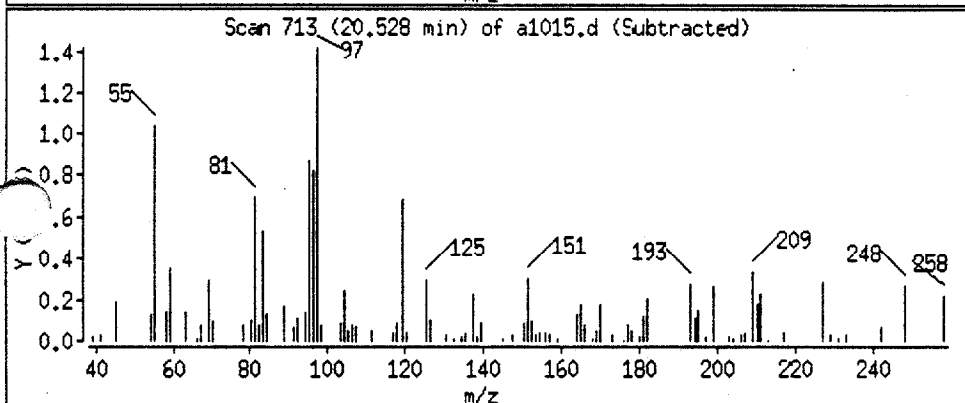
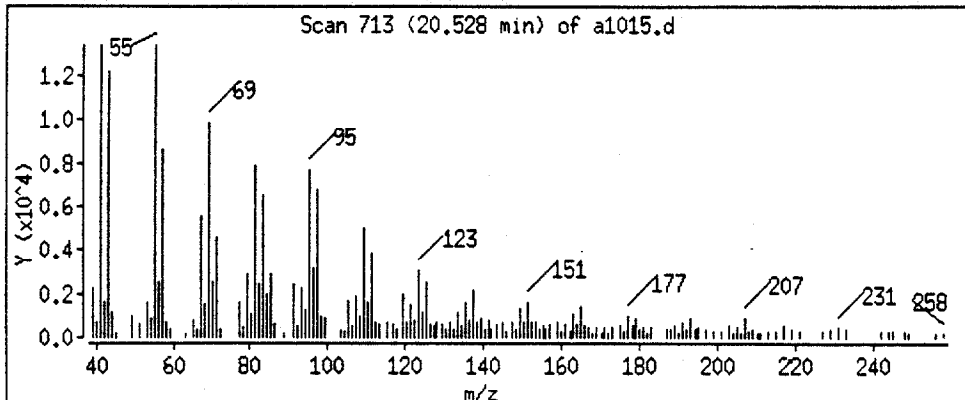
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

62 Carbazole



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

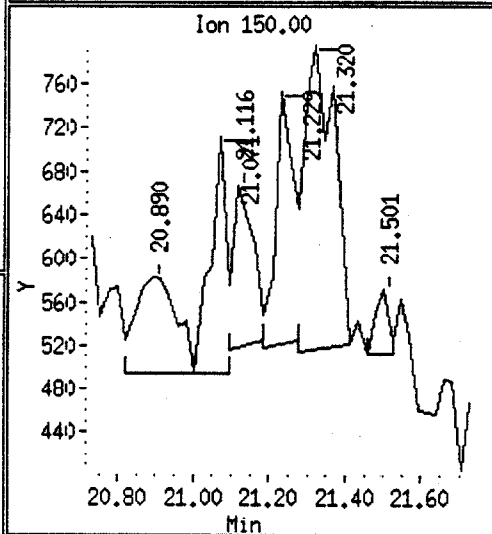
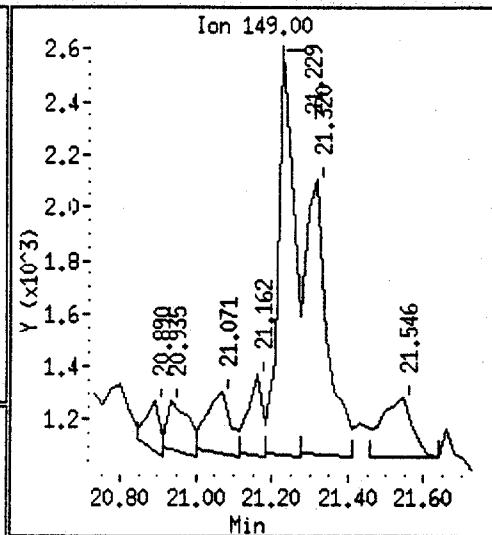
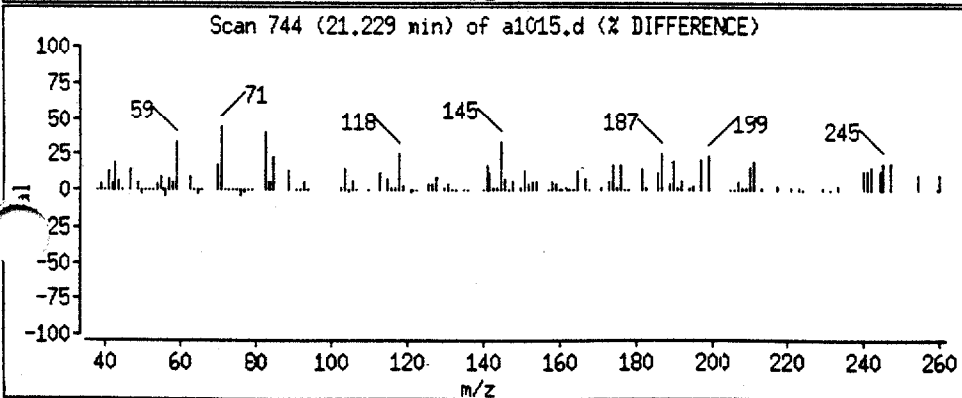
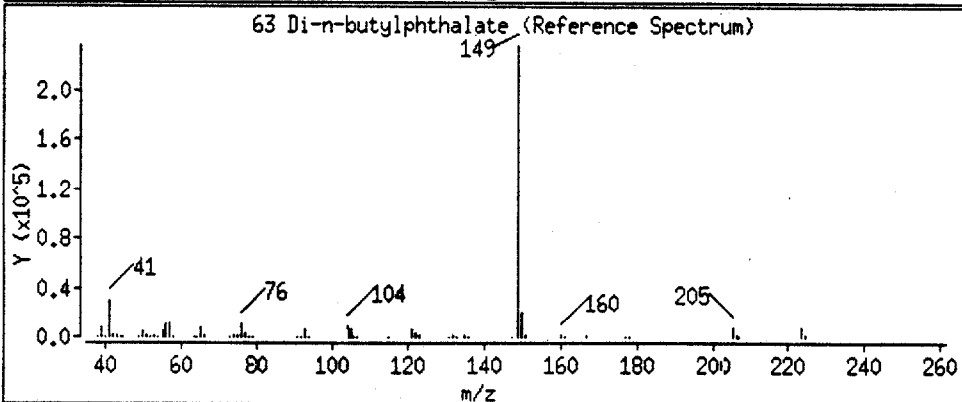
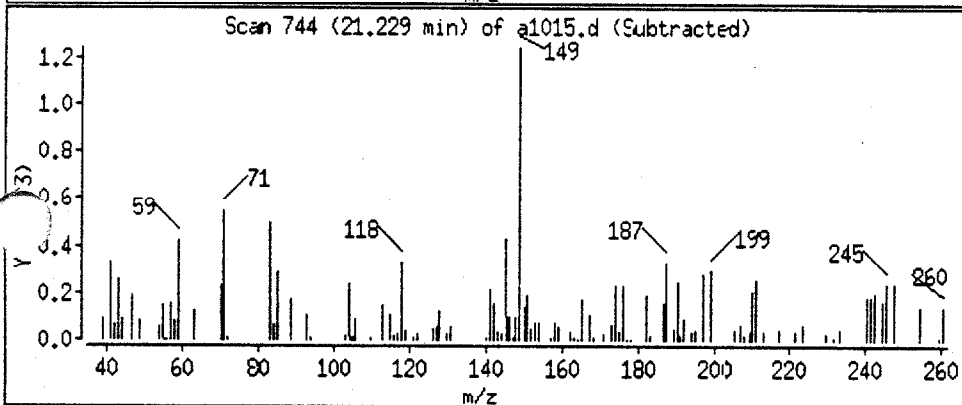
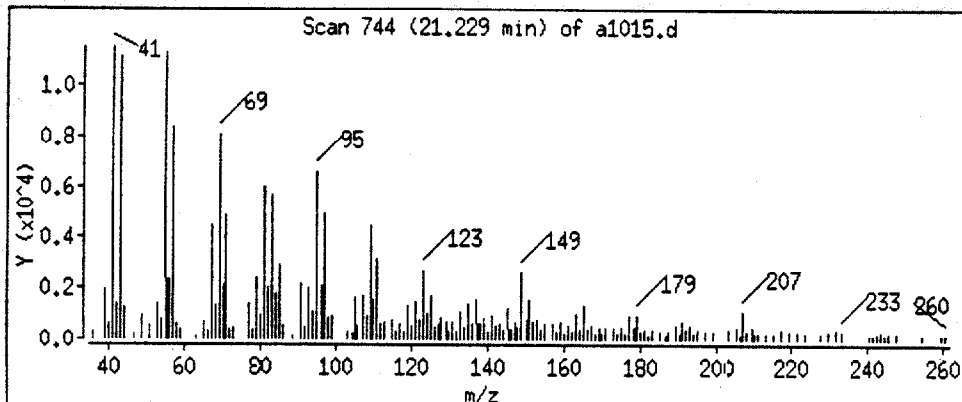
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

63 Di-n-butylphthalate





Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

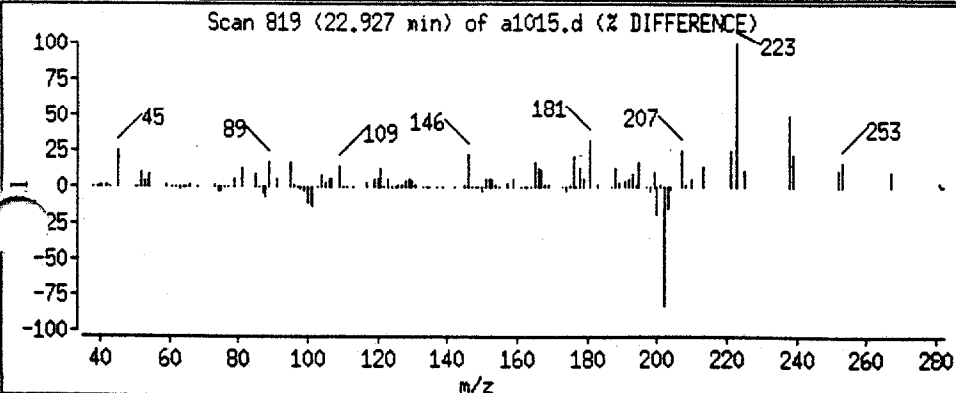
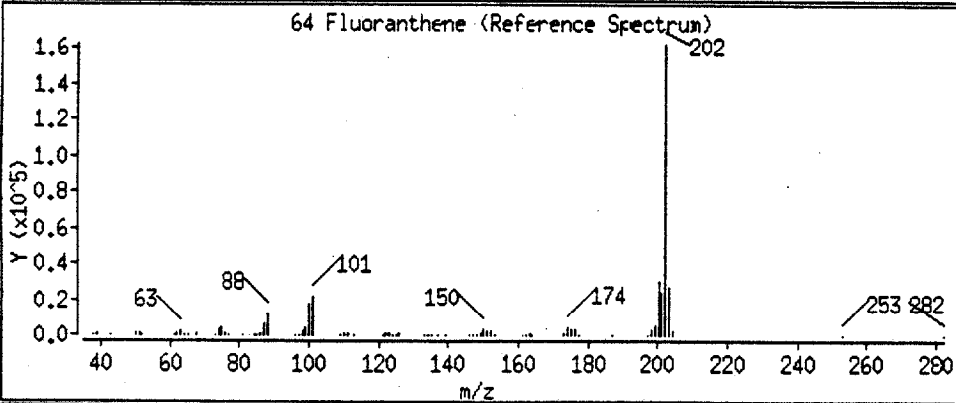
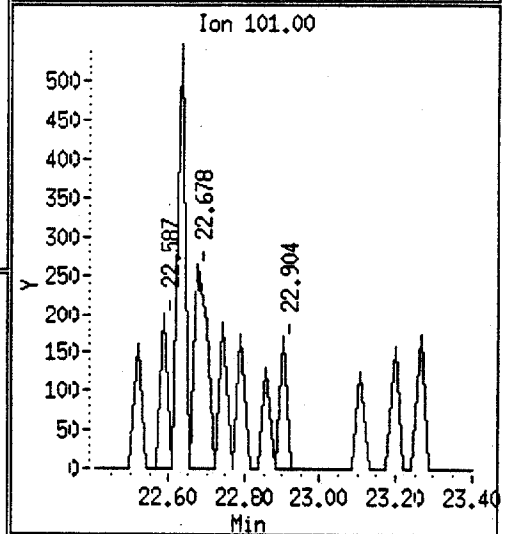
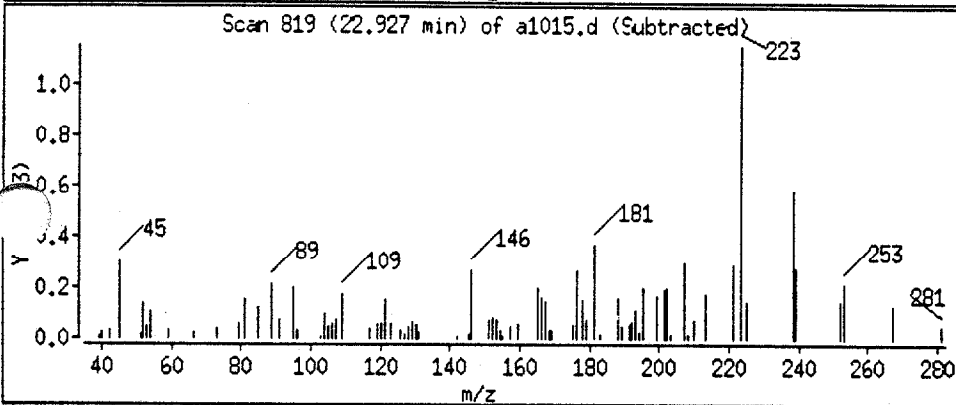
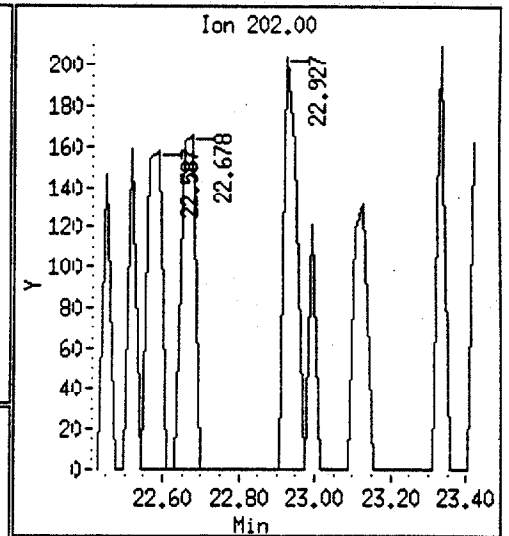
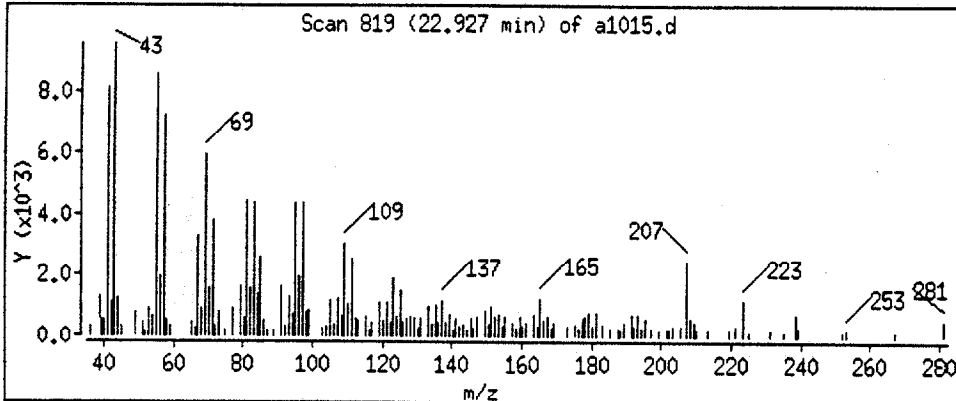
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

64 Fluoranthene



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

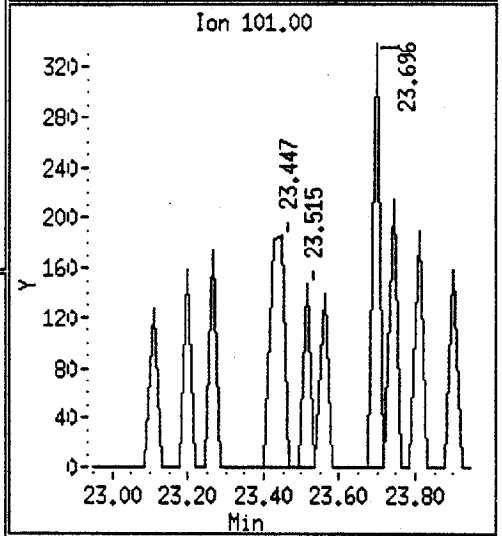
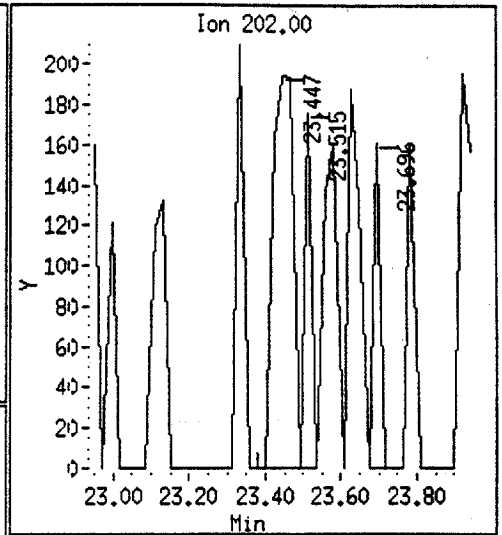
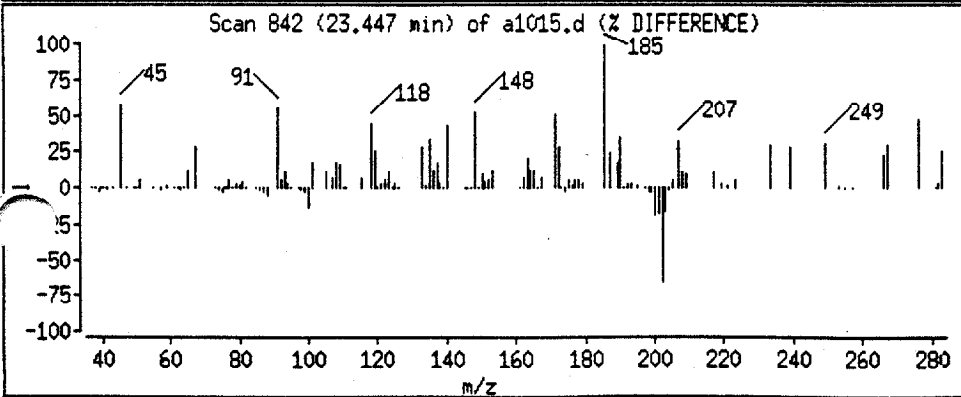
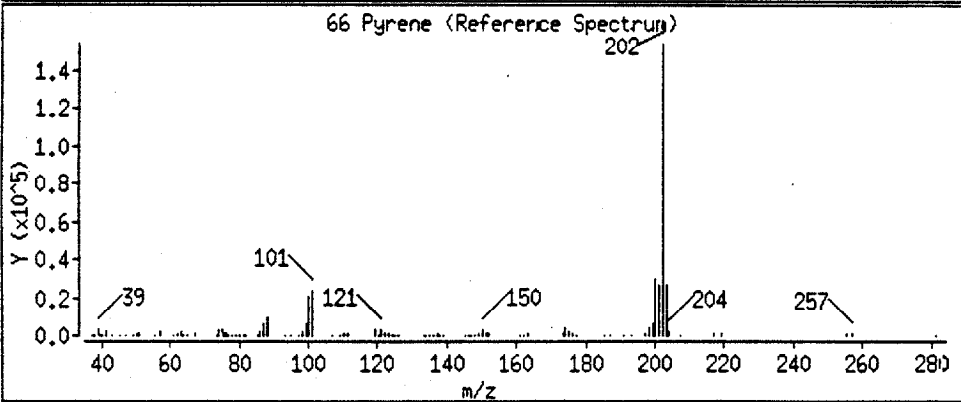
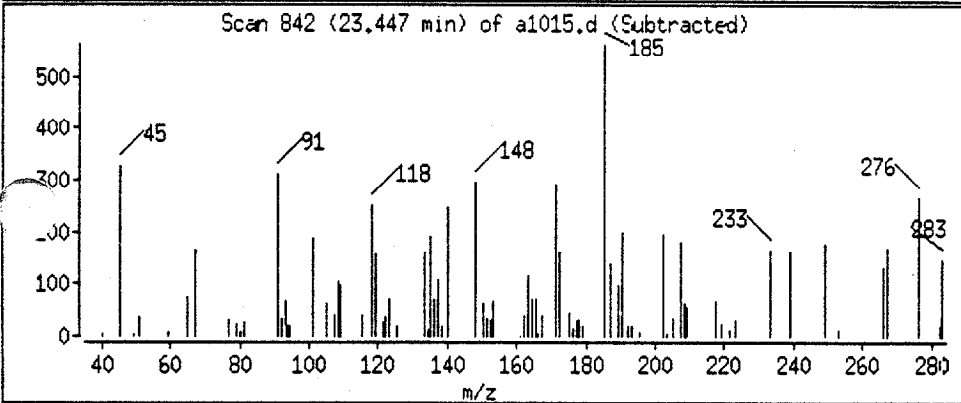
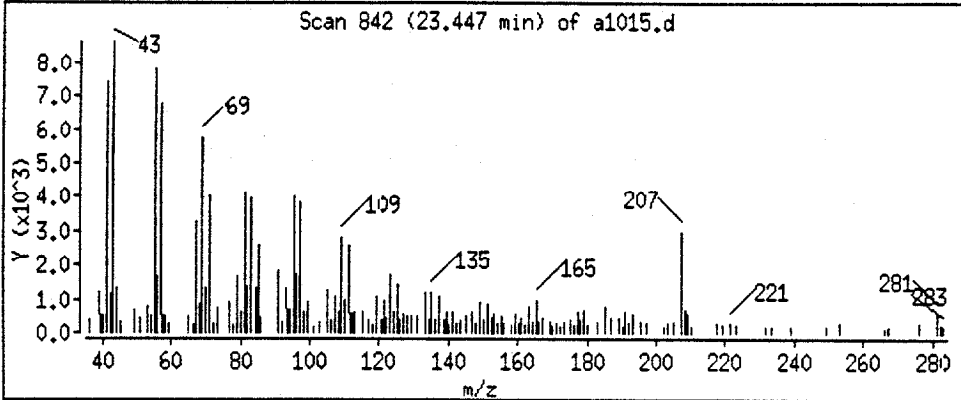
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

66 Pyrene



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

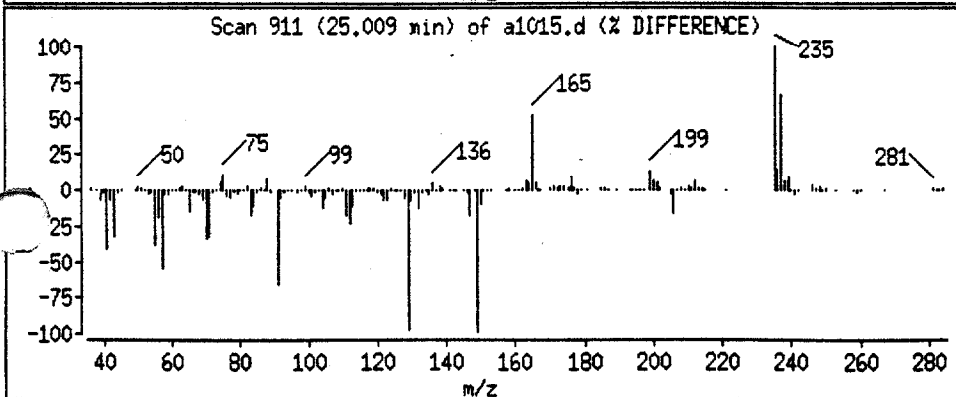
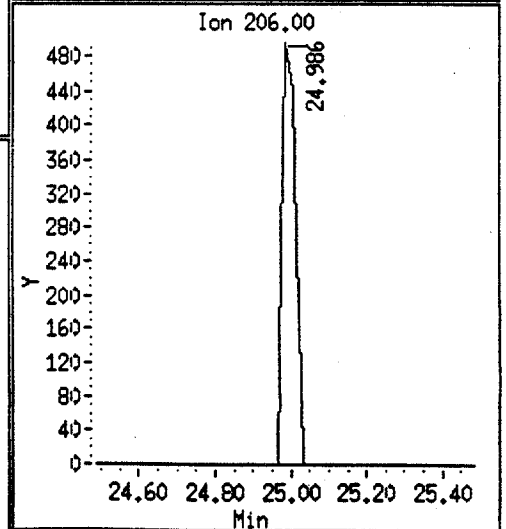
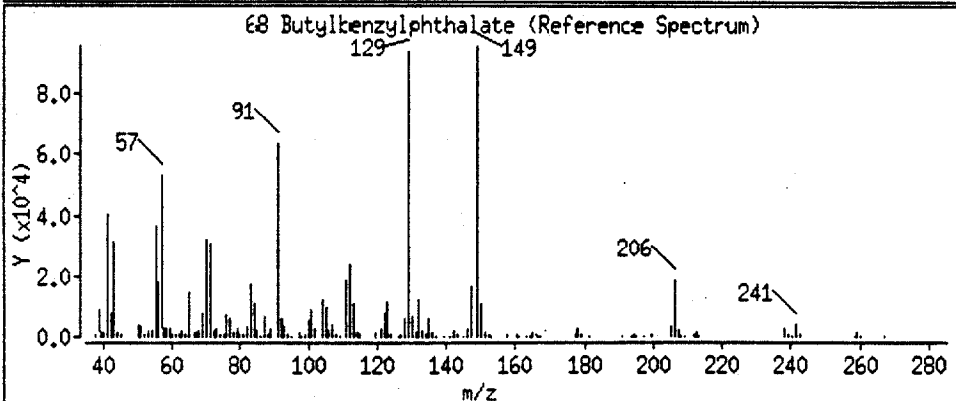
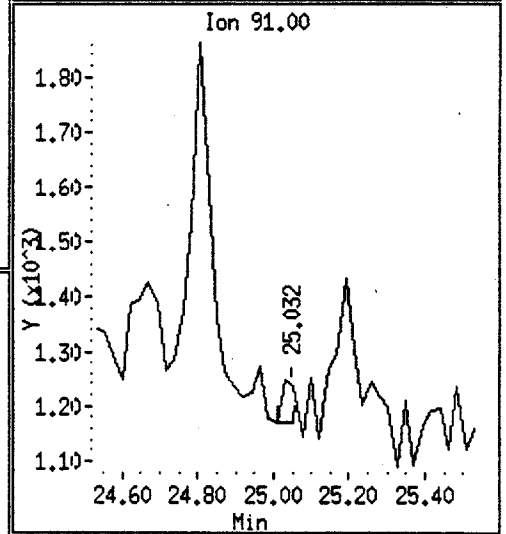
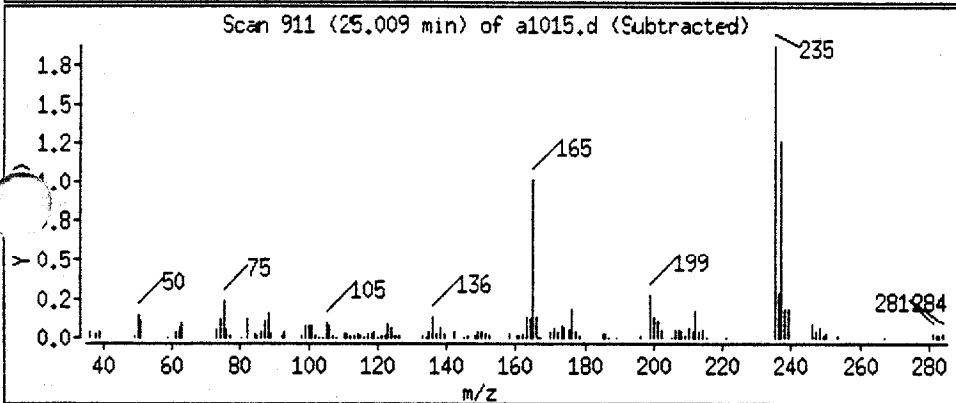
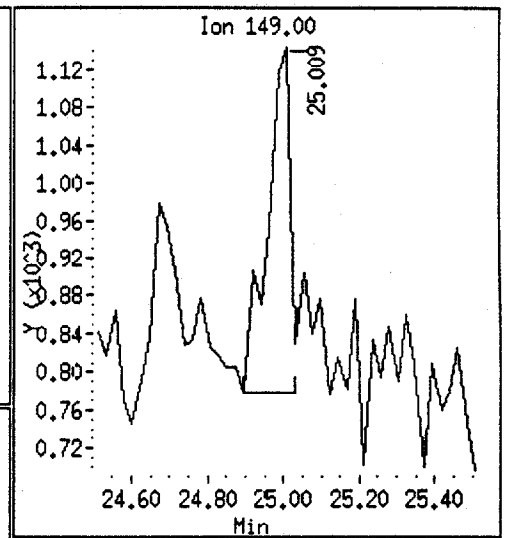
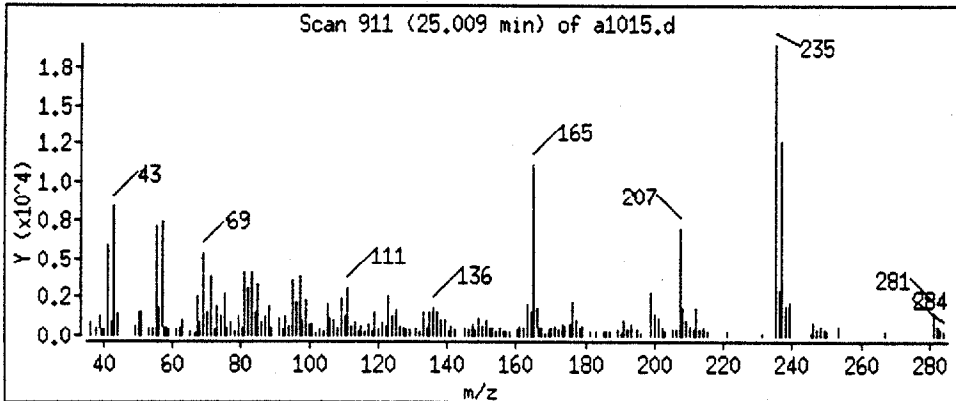
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

68 Butylbenzylphthalate



Data File: /chem/a900.1/a032694.b/a1015.d

Date: 26-MAR-94 21:16

Instrument: a900.i

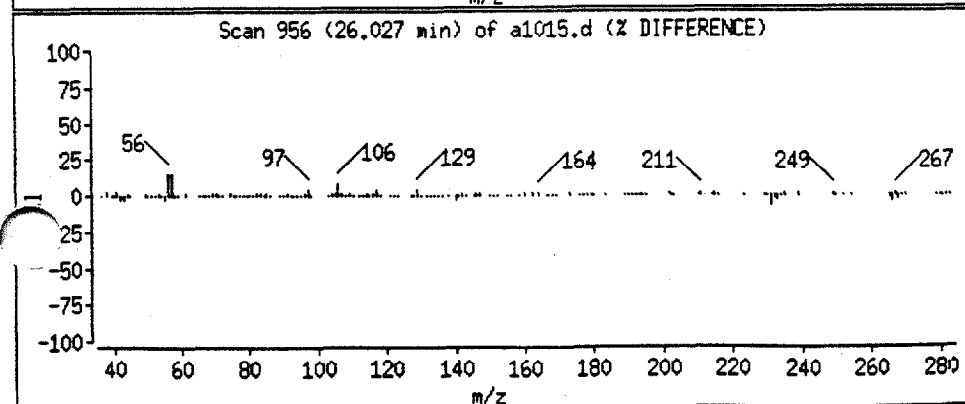
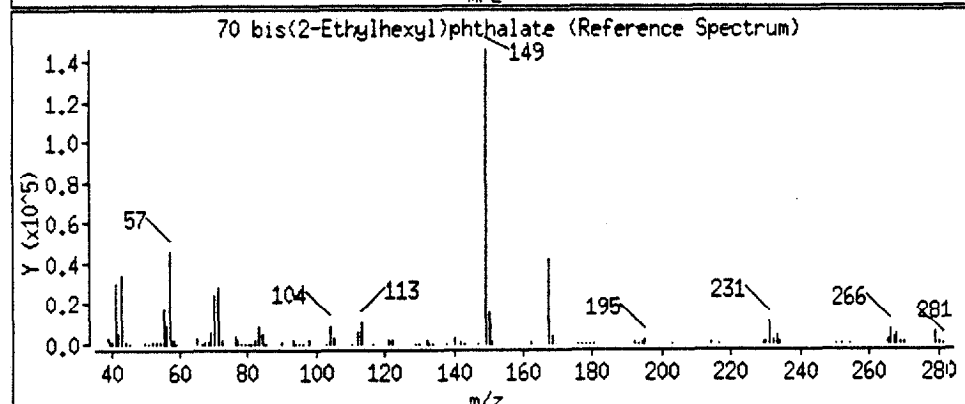
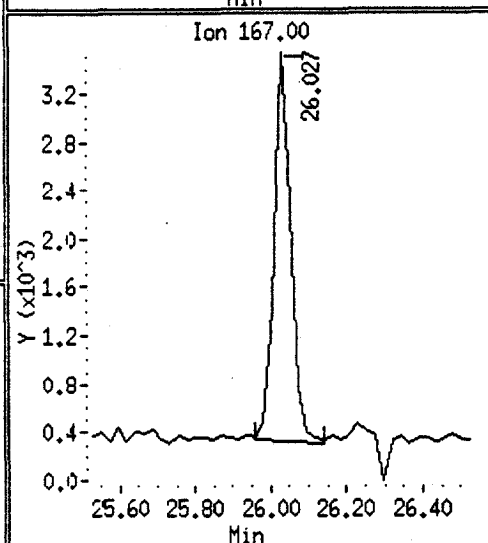
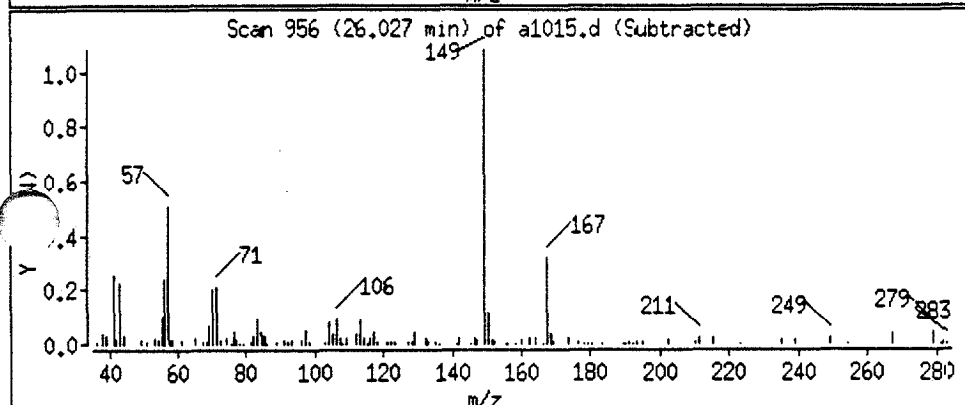
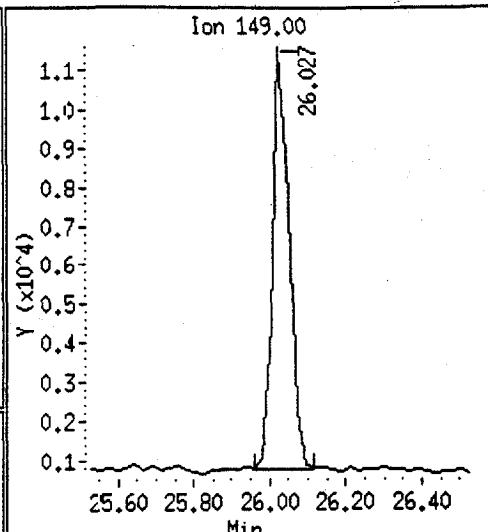
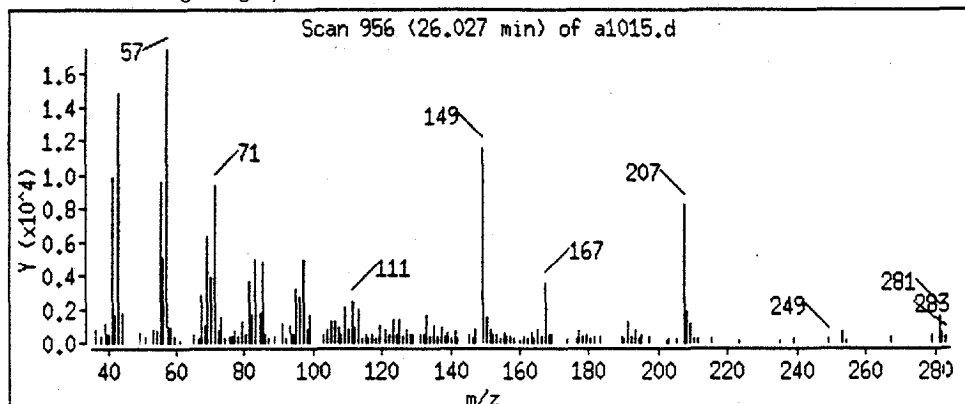
Sample ID:

Column phase: J&W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

70 bis(2-Ethylhexyl)phthalate



Data File: /chem/a900.i/a032694.b/a1015.d

Date: 26-MAR-94 21:16

Instrument: a900.i

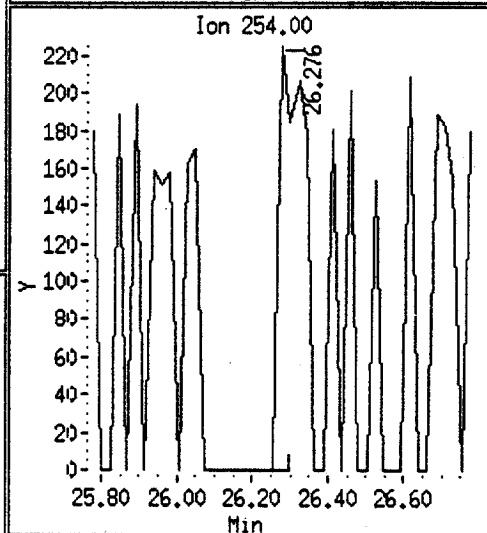
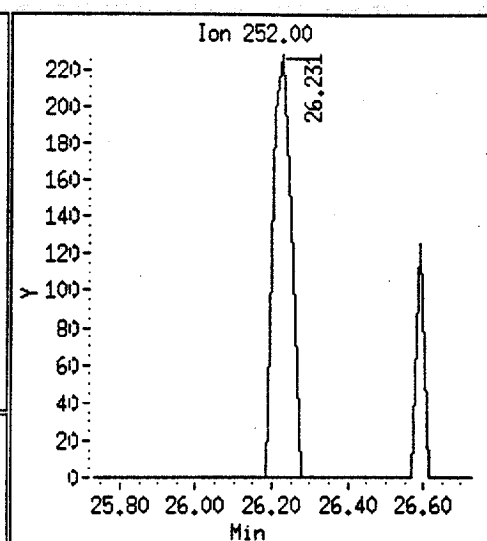
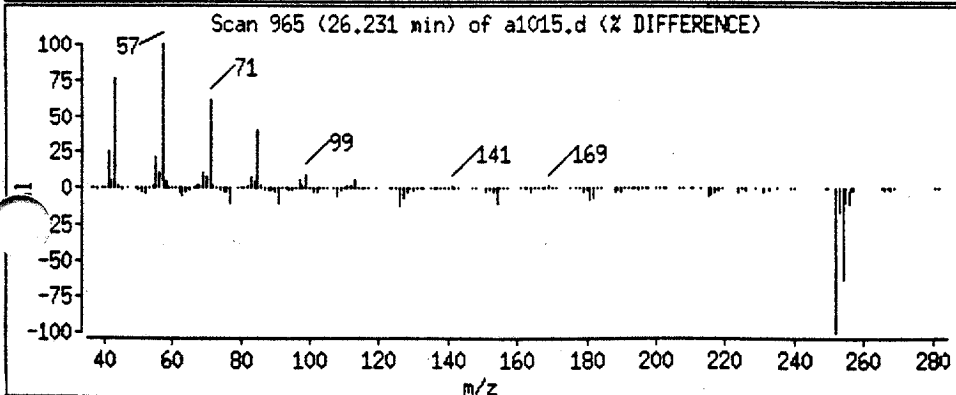
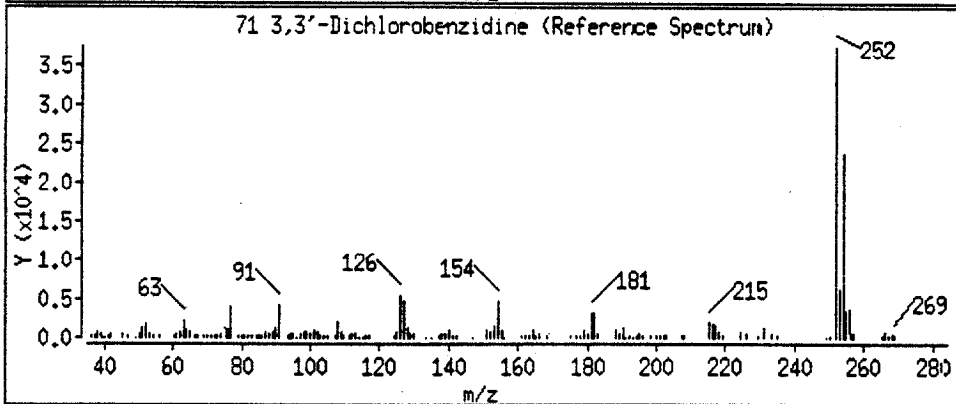
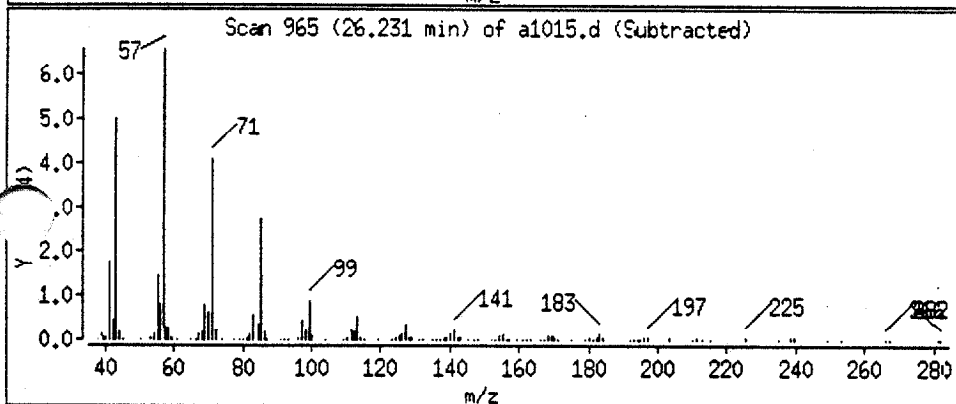
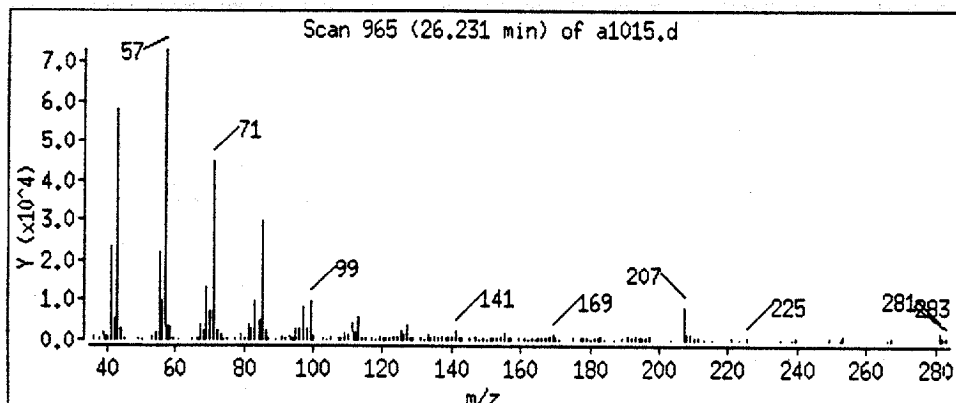
Sample ID:

Column phase: J&amp;W DB-5

Column diameter: 0.25

Volume Injected (uL): 2.0

## 71 3,3'-Dichlorobenzidine



Data File: /chem/a900.i/a032694.b/a1015.d

Date : 26-MAR-94 21:16

Instrument : a900.i

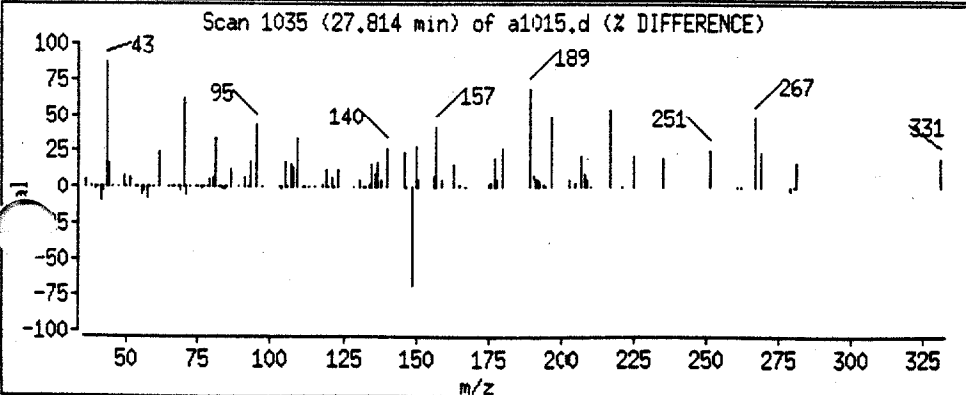
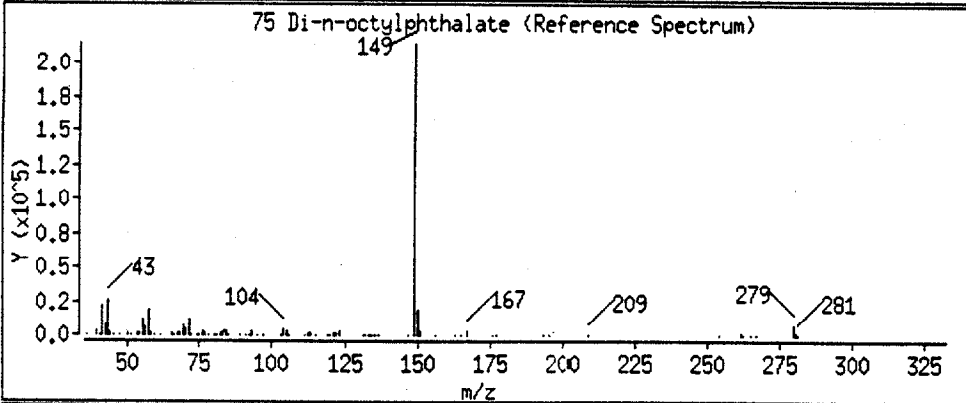
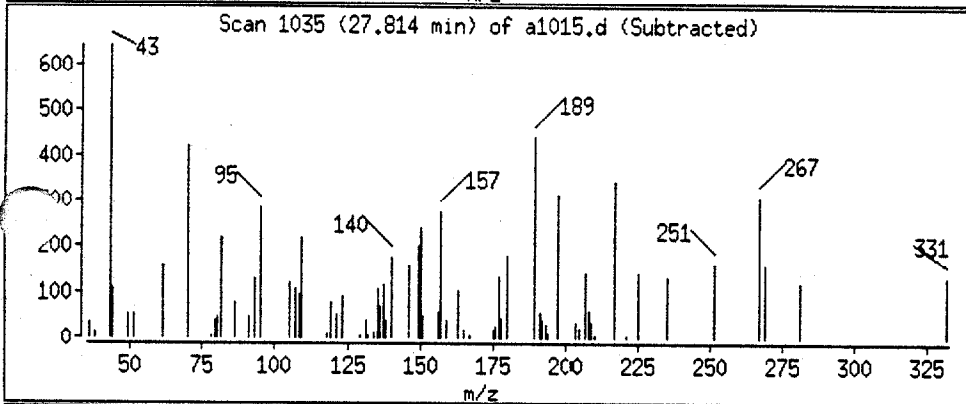
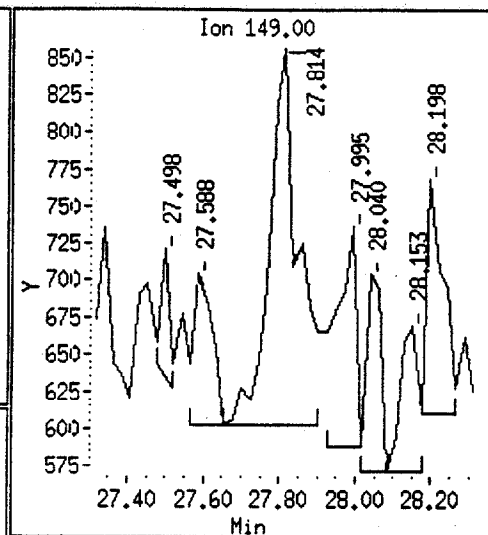
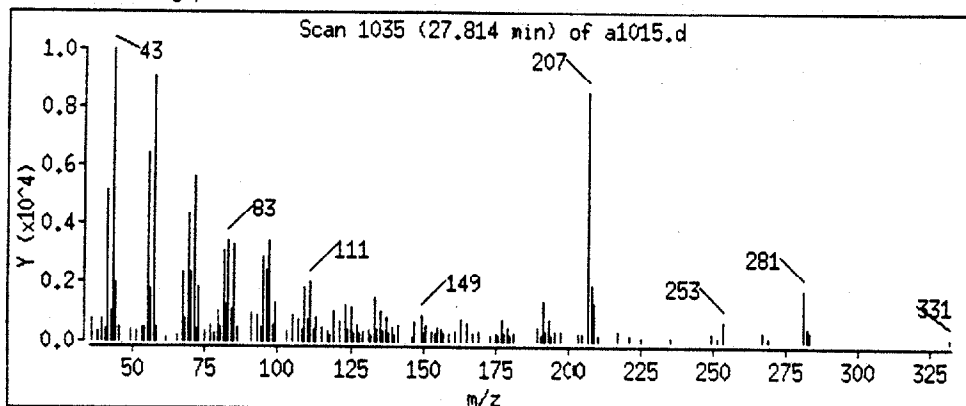
Sample ID :

Column phase : J&W DB-5

Column diameter : 0.25

Volume Injected (uL) : 2.0

75 Di-n-octylphthalate



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NELSA VBLK 01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: NQV3317 V  
 Sample wt/vol: 4.00g/mL g Lab File ID: 1C6774  
 Level: (low/med) NA Date Received: 02/18/94  
 % Moisture: not dec. NA Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
74-87-3	Chloromethane	625	U
74-83-9	Bromomethane	625	U
75-01-4	Vinyl Chloride	625	U
75-00-3	Chloroethane	625	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-Dichloroethene (total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-Dichloroethane	625	U
78-93-3	2-Butanone	625	U
71-55-6	1,1,1-Trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-Dichloropropane	625	U
10061-01-5	cis-1,3-Dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-Trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-Dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-Methyl-2-Pentanone	625	U
591-78-6	2-Hexanone	625	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-Tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Xylene (total)	625	U
	1,2-trans-Dichloroethene	625	U
	m-p-Xylenes	625	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NEESA VBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) Soil Lab Sample ID: N2V3317

Sample wt/vol: 4.00 (g/mL) g Lab File ID: 02774

Level: (low/med) NA Date Received: 02-18-94

% Moisture: not dec. NA Date Analyzed: 2-25-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: NA (uL)

Number TICs found: 0 CONCENTRATION UNITS;  
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: MESA VSPK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: 112V3317VS  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: 1C6776  
 Level: (low/med) NA Date Received: 02/18/94  
 % Moisture: not dec. NA Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 1000 (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	<u>g</u>
74-87-3	Chloromethane	625	u
74-83-9	Bromomethane	625	u
75-01-4	Vinyl Chloride	625	u
75-00-3	Chloroethane	625	u
75-09-2	Methylene Chloride	6000	
67-64-1	Acetone	640	
75-15-0	Carbon Disulfide	6040	
75-35-4	1,1-Dichloroethene	6110	
75-34-3	1,1-Dichloroethane <u>cis</u>	5950	
540-59-0	1,2-Dichloroethene <u>(total)</u>	<del>DL 5990</del> 6090	
67-66-3	Chloroform	6580	
107-06-2	1,2-Dichloroethane	<del>6090</del> 6100 <del>DL 5990</del> 5990	
78-93-3	2-Butanone	<del>610</del> 5910	
71-55-6	1,1,1-Trichloroethane	6360	
56-23-5	Carbon Tetrachloride	6440	
75-27-4	Bromodichloromethane	6180	
78-87-5	1,2-Dichloropropane	6240	
10061-01-5	cis-1,3-Dichloropropene	5830	
79-01-6	Trichloroethene	6470	
124-48-1	Dibromochloromethane	6180	
79-00-5	1,1,2-Trichloroethane	6150	
71-43-2	Benzene	6520	
10061-02-6	trans-1,3-Dichloropropene	6430	
75-25-2	Bromoform	5980	
108-10-1	4-Methyl-2-Pentanone	5910	
591-78-4	2-Hexanone	6520	
127-18-4	Tetrachloroethene	6570	
79-34-5	1,1,2,2-Tetrachloroethane	6410	
108-88-3	Toluene	6480	
108-90-7	Chlorobenzene	6290	
100-41-4	Ethylbenzene	6450	
100-42-5	Styrene	6520	
1330-20-7	<u>o</u> -Xylene (total)	<del>DL 6500</del> 6570	
106-46-7	1,4-Dichlorobenzene	6400	
	1,2-trans-Dichloroethene	6170	
	MCP-Xylene	13200	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: Nersa 06527MS  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3564 VS  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: 1 C6777  
 Level: (low/med) NA Date Received: 02/18/94  
 ‡ Moisture: not dec. 20.2 Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
74-87-3	Chloromethane	625	u
74-83-9	Bromomethane	625	u
75-01-4	Vinyl Chloride	625	u
75-00-3	Chloroethane	625	u
75-09-2	Methylene Chloride	5680	
67-64-1	Acetone	6770	
75-15-0	Carbon Disulfide	5110	
75-35-4	1,1-Dichloroethene	5450	
75-34-3	1,1-Dichloroethane <u>cis</u>	5610	
540-59-0	1,2-Dichloroethene (total)	5670 5580	5140
67-66-3	Chloroform	5670	
107-06-2	1,2-Dichloroethane	5670	
78-93-3	2-Butanone	5480	
71-55-6	1,1,1-Trichloroethane	5110	
56-23-5	Carbon Tetrachloride	5430	
75-27-4	Bromodichloromethane	5280	
78-87-5	1,2-Dichloropropane	5420	
10061-01-5	cis-1,3-Dichloropropene	5070	
79-01-6	Trichloroethene	5160	
124-48-1	Dibromochloromethane	5340	
79-00-5	1,1,2-Trichloroethane	5320	
71-43-2	Benzene	5500	
10061-02-6	trans-1,3-Dichloropropene	5700	
75-25-2	Bromoform	5210	
108-10-1	4-Methyl-2-Pentanone	5450	
591-78-4	2-Hexanone	5770	
127-18-4	Tetrachloroethene	5770	
79-34-5	1,1,2,2-Tetrachloroethane	5640	
108-88-3	Toluene	5380	
108-90-7	Chlorobenzene	5270	
100-41-4	Ethylbenzene	5530	
100-42-5	Styrene	5400	
1330-20-7	<u>o</u> -Xylene (total)	146700 5640	
106-46-7	1,4-Dichlorobenzene	5200	
	1,2-trans-Dichloroethylene	5580	
	m+p-Xylenes	11,000	

FORM I VOA

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: ANUSA CL527 MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) soil Lab Sample ID: Jm3564VR  
 Sample wt/vol: DUY 4.01 4.01 (g/mL) g Lab File ID: CL6778  
 Level: (low/med) NA Date Received: 02/18/94  
 % Moisture: not dec. 20.2 Date Analyzed: 02/25/94  
 GC Column: DB24 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 1000 (uL) Soil Aliquot Volume: NA (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/kg</u>	<u>Q</u>
74-87-3	Chloromethane	625	U
74-83-9	Bromomethane	625	U
75-01-4	Vinyl Chloride	625	U
75-00-3	Chloroethane	625	U
75-09-2	Methylene Chloride	5760	
67-64-1	Acetone	6230	
75-15-0	Carbon Disulfide	5280	
75-35-4	1,1-Dichloroethene	5850	
75-34-3	1,1-Dichloroethane <u>cis</u>	5740	
540-59-0	1,2-Dichloroethene (total)	<del>5200</del> 5860	
67-66-3	Chloroform	5980	
107-06-2	1,2-Dichloroethane	5700	
78-93-3	2-Butanone	5480	
71-55-6	1,1,1-Trichloroethane	5430	
56-23-5	Carbon Tetrachloride	5870	
75-27-4	Bromodichloromethane	5620	
78-87-5	1,2-Dichloropropane	5780	
10061-01-5	cis-1,3-Dichloropropene	5250	
79-01-6	Trichloroethene	5880	
124-48-1	Dibromochloromethane	5500	
79-00-5	1,1,2-Trichloroethane	5800	
71-43-2	Benzene	5890	
10061-02-6	trans-1,3-Dichloropropene	5780	
75-25-2	Bromoform	5430	
108-10-1	4-Methyl-2-Pentanone	5810	
591-78-4	2-Hexanone	<del>5555</del> 5500	
127-18-4	Tetrachloroethene	5460	
79-34-5	1,1,2,2-Tetrachloroethane	5760	
108-88-3	Toluene	5560	
108-90-7	Chlorobenzene	5440	
100-41-4	Ethylbenzene	5650	
100-42-5	Styrene	5510	
1330-20-7	<u>o</u> -xylene (total)	<del>1730</del> 5910	
106-46-7	1,4-Dichlorobenzene		
	1,2-trans-Dichloroethene	5610	
	m-p-Xylenes	11,400	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6527  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: Jm3564  
 Sample wt/vol: 4.00 (g/mL) g Lab File ID: 7C6775  
 Level: (low/med) NA Date Received: 02/18/94  
 ‡ Moisture: not dec. 20.2 Date Analyzed: 02/25/94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 50  
 Soil Extract Volume: 1000 (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/Kg</u>	Q
74-87-3	Chloromethane	625	U
74-83-9	Bromomethane	625	U
75-01-4	Vinyl Chloride	625	U
75-00-3	Chloroethane	625	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane <i>cis</i>	625	U
540-59-0	1,2-Dichloroethene (total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-Dichloroethane	625	U
78-93-3	2-Butanone	625	U
71-55-6	1,1,1-Trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-Dichloropropane	625	U
10061-01-5	cis-1,3-Dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-Trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-Dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-Methyl-2-Pentanone	625	U
591-78-4	2-Hexanone	625	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-Tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	<i>o</i> -xylene (total) <i>U</i>	625	U
106-46-7	1,4-Dichlorobenzene	625	U

1,2-trans-Dichloroethene 625 U  
 m-p-Xylenes 625 U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ASC Contract: NEESA C6527

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) Soil Lab Sample ID: JM3564

Sample wt/vol: 4.00 (g/mL) g Lab File ID: C6775

Level: (low/med) NA Date Received: 02-18-94

‡ Moisture: not dec. 20.2 Date Analyzed: 02-25-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: NA (uL)

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124185	Decane	20.72	5.48	J
2. 1126214	Undecane	23.17	3.91	J
3. 111842	Nonane	17.62	3.20	J
4. NA	Unknown Tetramethylcyclohexane isomer	19.96	2.27	J
5. NA	Unknown	22.79	1.73	J
6. NA	Unknown	18.79	1.67	J
7. NA	Unknown Substituted Cyclohexane	21.92	1.43	J
8. NA	Unknown Hydrocarbon	20.52	1.38	J
9. 95636	1,2,4-Trimethylbenzene	21.43	0.618	J
10. 526738	1,2,3-Trimethylbenzene	22.31	1.27	J
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2A  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0182

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKCI	90.0	94.3	42.5		0
02	VSPK01	93.0	91.6	83.2		0
03	C6527MS	87.2*	87.0	90.4		1
04	C6527MSD	86.7*	88.7	89.5		1
05	C6527	82.2*	86.8	81.6*		21/14
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QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)  
 SMC2 (BFB) = Bromofluorobenzene (86-115)  
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01

Blank Spike - EPA Sample No.: VSPK01

COMPOUND	SPIKE ADDED (ug/L) <sup>or</sup> (ug/kg)	BLANK CONCENTRATION (ug/L) <sup>or</sup> (ug/kg)	BS CONCENTRATION (ug/L) <sup>or</sup> (ug/kg)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	6260	0	6160	98.4	61-145
Trichloroethene	6250	0	6470	104	71-120
Benzene	6240	0	6520	104	76-127
Chlorobenzene	6240	0	6290	101	75-130
1,2-Dichloroethane	NA	0			30-130
1,4-dichlorobenzene	NA	0			30-130
Carbon Tetrachloride	NA	0			30-130
Chloroform	NA	0			30-130
2-Butanone	NA	0			30-130
Tetrachloroethene	NA	0			30-130
Vinyl Chloride	NA	0			30-130
Toluene	6260		6400	102	

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 5 ~~11~~ outside limits

COMMENTS: \_\_\_\_\_

## SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix Spike - EPA Sample No.: C6527 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	6260	0	5450	87.1	59-172
Trichloroethene	6250	0	5460	87.4	62-137
Benzene	6240	0	5500	88.1	66-142
Toluene	6260	0	5270	84.5	59-139
Chlorobenzene	6240	0			60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	6260	5800	92.7	6.23	22 59-172
Trichloroethene	6250	5380	94.1	7.38	24 62-137
Benzene	6240	5390	94.4	6.90	21 66-142
Toluene	6260	5360	88.8	3.33	21 59-139
Chlorobenzene	6240	5440	87.2	3.15	21 60-133

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

\* Values outside of QC limits

RPD: 0 out of 5 outside limits  
 Spike Recovery: 0 out of 10 outside limits

COMMENTS: \_\_\_\_\_



4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA VBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab File ID: C6774 Lab Sample ID: N2V3317V

Date Analyzed: 2-25-94 Time Analyzed: 9:59

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSD-C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	<u>C6527MS</u>	<u>JM3564VS</u>	<u>C6777</u>	<u>15:12</u>
02	<u>C6527MSD</u>	<u>JM3564VR</u>	<u>C6778</u>	<u>15:43</u>
03	<u>C6527</u>	<u>JM3564V</u>	<u>C6775</u>	<u>10:35</u>
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COMMENTS:

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: C6772 BFB Injection Date: 2-25-94  
 Instrument ID: MSD.C BFB Injection Time: 8:52  
 GC Column: DB 624 ID: .53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.22
75	30.0 - 66.0% of mass 95	41.66
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	8.06
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	71.72
175	4.0 - 9.0 % of mass 174	5.59 (7.80) 1
176	93.0 - 101.0% of mass 174	69.17 (96.45) 1
177	5.0 - 9.0% of mass 176	4.04 (5.85) 2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLK01	N2V3317V	C6774	2-25-94	9:59
02	VSPK01	N2V3317VS	C6776	2-25-94	14:20
03	C6527MS	JM3564VS	C6777	2-25-94	15:12
04	C6527MSD	JM3564VR	C6778	2-25-94	15:48
05	C6527	JM3564V	C6775	2-25-94	10:35
06	VSTD50	CHK STD	C6773	2-25-94	9:12
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6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

0187

Lab Name: ASC Contract: NFEES  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-C Calibration Date(s): 2-11-94 2-11-94  
 Heated Purge: (Y/N) N Calibration Times: 09:35 11:00  
 GC Column: DB-624 ID: .53 (mm)

LAB FILE ID: \_\_\_\_\_ RRF10 = C6535 RRF20 = C6536  
 RRF50 = C6537 RRF100 = C6538 RRF200 = C6539

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	RSD
M+p Xylenes	.55075	.59772	.60692	.58121	.57393	.58211	3.75
Chloromethane	.64125	1.05454	1.00925	1.01801	1.06739	1.01815	4.85
Bromomethane	*.12623	.62688	1.20351	1.13374	1.16205	1.20609	4.95
Vinyl Chloride	*.114186	1.20088	1.24413	1.22529	1.24318	1.21107	3.51
Chloroethane	.68149	.70897	.67866	.54144	.53819	.61459	12.52
Methylene Chloride	1.34848	1.42602	1.31238	1.27646	1.27468	1.32361	4.17
Acetone	.40844	.28429	.74934	.28540	.29144	.34378	15.93
Carbon Disulfide	3.51747	2.91499	3.61241	3.53692	3.48367	3.16389	3.24
1,1-Dichloroethene	*.10158	1.24101	1.25688	1.21331	1.21967	1.21109	5.38
1,1-Dichloroethane <i>cis</i>	*.247563	2.77124	2.66813	2.64961	2.64560	2.64225	4.02
1,2-Dichloroethene (total)	1.25785	1.46756	1.38860	1.39731	1.41090	1.38445	5.57
Chloroform	*.269031	2.48539	2.90614	2.85109	2.87316	2.86222	3.78
1,2-Dichloroethane	*.81489	2.12131	2.02701	2.09188	2.09625	2.02025	6.17
2-Butanone	-	.01743	.02139	.02090	.02032	.02001	8.88
1,1,1-Trichloroethane	*.59373	.64491	.59746	.56652	.56022	.59137	5.88
Carbon Tetrachloride	*.56979	.63898	.59991	.56752	.57822	.59089	5.04
Bromodichloromethane	*.73157	.81590	.83568	.82652	.81011	.80395	5.18
1,2-Dichloropropane	.40285	.44194	.44374	.43752	.42713	.43014	3.91
cis-1,3-Dichloropropene	*.45796	.54939	.54662	.56359	.55360	.53423	8.07
Trichloroethene	*.46564	.49249	.47712	.47073	.46166	.47353	2.55
Dibromochloromethane	*.56651	.64541	.67156	.67359	.65121	.64146	6.80
1,1,2-Trichloroethane	*.30089	.33379	.33102	.32825	.30077	.31894	5.22
Benzene	*.93652	.98072	.98012	.94007	.92292	.95207	2.80
trans-1,3-Dichloropropene	*.29136	.34938	.35845	.36823	.35161	.34401	8.85
Bromoform	*.43988	.50912	.53777	.53830	.51635	.50829	7.94
4-Methyl-2-Pentanone	.11158	.12510	.13933	.13289	.12984	.12775	8.15
2-Hexanone	.29678	.32382	.38750	.37344	.37667	.37150	7.57
Tetrachloroethene	*.53739	.57270	.58225	.57496	.56336	.56213	3.08
1,1,2,2-Tetrachloroethane	*.58391	.61338	.64745	.62649	.63472	.62159	3.78
Toluene	*.64714	.71838	.73446	.75031	.74849	.71975	5.92
Chlorobenzene	*.105183	1.10544	1.10974	1.09824	1.08239	1.08953	2.16
Ethylbenzene	*.39910	.44811	.45037	.44237	.43728	.43539	4.40
Styrene	*.75321	.87509	.90640	.91918	.91248	.87327	7.93
Xylene (total)	*.54818	.60595	.64422	.61333	.61080	.60460	5.18
Toluene-d8	.98624	1.01860	1.12667	1.10400	1.09564	1.06623	5.67
Bromofluorobenzene	1.02183	1.00174	1.09470	1.02989	1.02344	1.02522	3.39
1,2-Dichloroethane-d4	1.63585	1.80600	1.85725	1.85119	1.82758	1.79458	5.10
1,2-trans-dichloroethylene	1.23228	1.39197	1.32416	1.30453	1.31126	1.31050	4.32

\* Compounds with required minimum RRF and maximum %RSD values.  
 All other compounds must meet a minimum RRF of 0.010.

7A  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-C Calibration Date: 2-25-94 Time: 9.12  
 Lab File ID: CG773 Init. Calib. Date(s): 2-11-94 2-11-94  
 Heated Purge: (Y/N) N Init. Calib. Times: 08:35 11:00  
 GC Column: DB624 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	RD	MAX RD
Chloromethane	1.01815	.92267		9.38	
Bromomethane	1.20209	1.04118	0.100	13.67	25.0
Vinyl Chloride	1.21107	1.11463	0.100	3.83	25.0
Chloroethane	.61459	.56792		7.59	
Methylene Chloride	1.32361	1.26110		4.72	
Acetone	.34378	.22644		34.08	
Carbon Disulfide	3.61389	3.32089		8.11	
1,1-Dichloroethene	1.21109	1.15460	0.100	4.25	25.0
1,1-Dichloroethane cis	2.04205	2.65159	0.200	.30	25.0
1,2-Dichloroethene (total)	1.38445	1.38777		.24	
Chloroform	2.86122	2.81768	0.200	1.52	25.0
1,2-Dichloroethane	2.03025	2.09003	0.100	2.94	25.0
2-Butanone	.02001	.01222		38.94	
1,1,1-Trichloroethane	.59137	.58715	0.100	.71	25.0
Carbon Tetrachloride	.59029	.55704	0.100	5.73	25.0
Bromodichloromethane	.80395	.74736	0.200	7.04	25.0
1,2-Dichloropropane	.43644	.42237		1.92	
cis-1,3-Dichloropropene	.53423	.55983	0.200	4.79	25.0
Trichloroethene	.47353	.44361	0.300	6.32	25.0
Dibromochloromethane	.64146	.61374	0.100	4.32	25.0
1,1,2-Trichloroethane	.31894	.30882	0.100	3.17	25.0
Benzene	.95207	.87428	0.500	8.17	25.0
trans-1,3-Dichloropropene	.34401	.36406	0.100	5.83	25.0
Bromoform	.50829	.49134	0.100	3.33	25.0
4-Methyl-2-Pentanone	1.2775	1.2541		1.83	
2-Hexanone	.37150	.35422		4.65	
Tetrachloroethene	.56613	.55976	0.200	1.13	25.0
1,1,2,2-Tetrachloroethane	.81895	.77284	0.500	5.63	25.0
Toluene	.71975	.72886	0.400	1.26	25.0
Chlorobenzene	1.03953	1.02670	0.500	5.77	25.0
Ethylbenzene	.43539	.44235	0.100	1.60	25.0
Styrene	.87327	.89027	0.300	1.95	25.0
Xylene (total)	1.60460	.56572	0.300	6.43	25.0
Toluene-d8	1.06423	1.08074		1.36	
Bromofluorobenzene	1.03532	1.07058	0.200	3.41	25.0
1,2-Dichloroethane-d4	1.79458	1.88453		5.01	
1,2-trans-Dichloroethane	1.31050	1.28137		2.22	

All other compounds must meet a minimum RRF of 0.010.

m-p-Xylenes

.58211 .55830

4.09

FORM VII VOA

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0189

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): C6773 Date Analyzed: 2-25-94  
 Instrument ID: MSD-C Time Analyzed: 09:12  
 GC Column: DB-624 ID: .53 (mm) Heated Purge: (Y/N) N

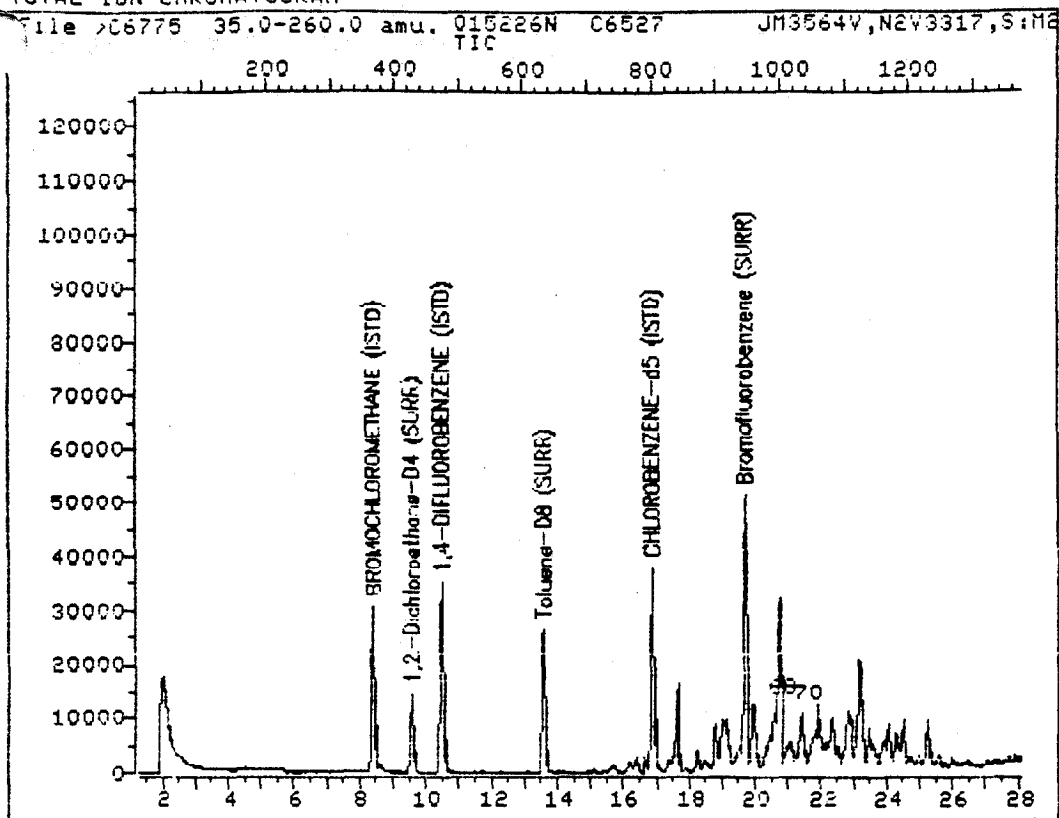
	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	22049	8.37	89763	10.46	67876	16.88
UPPER LIMIT	44098	8.87	179526	10.96	135752	17.38
LOWER LIMIT	11025	7.87	44882	9.96	33938	16.38
EPA SAMPLE NO.						
01	VBLK01	8.38	81429	10.46	63939	16.86
02	VSPK01	8.43	91538	10.52	69350	16.90
03	C6527MS	8.40	88194	10.49	67411	16.91
04	C6527MSD	8.42	82254	10.49	64220	16.91
05	C6527	8.39	80253	10.48	62736	16.86
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

## TOTAL ION CHROMATOGRAM



Data File: &gt;C6775::D5

Quant Output File: ^C6775::QT

Name: 015226N C6527

Misc: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

Id File: IC210#::D4

Title: MSD-C DR624 0.53mmX75m VOLATILE GC/MS

Last Calibration: 940211 07:40

Operator ID: JEFF

Quant Time: 940225 11:19

Injected at: 940225 10:35

7000  
0191

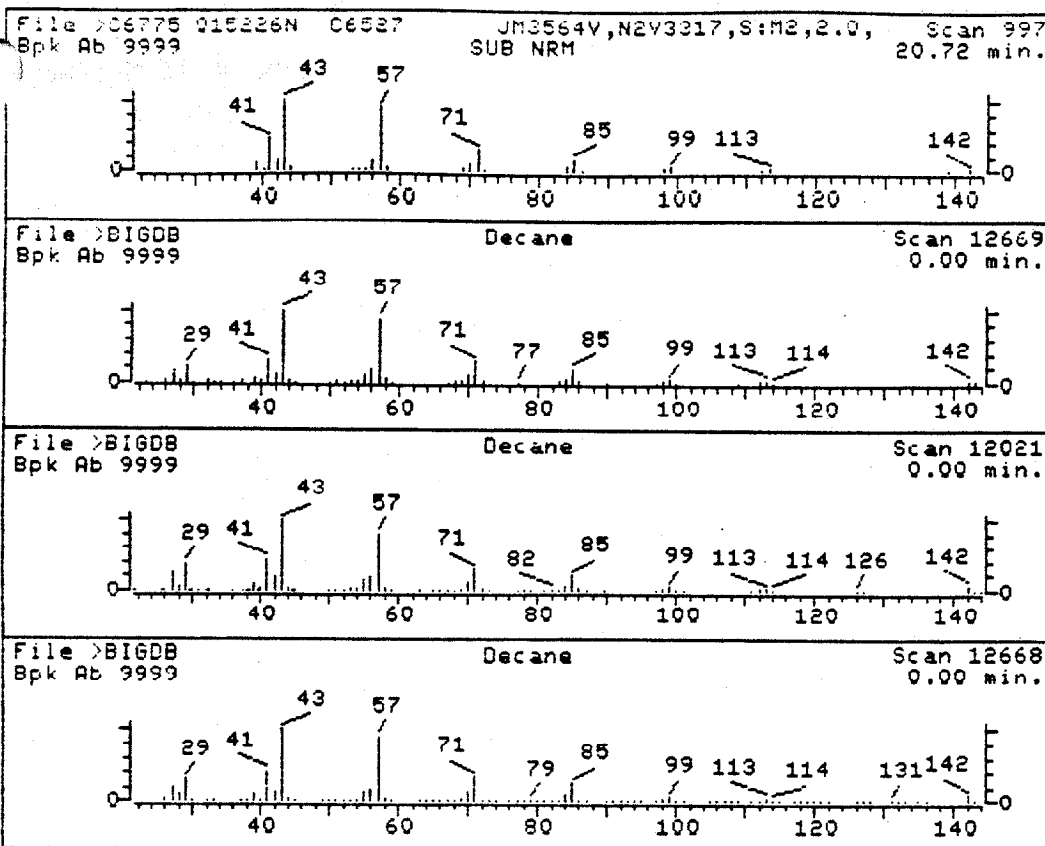
QUANT REPORT

Operator ID: JEFF                      Quant Rev: 7                      Quant Time: 940225 11:19  
Output File: ^C6775::QT                      Injected at: 940225 10:35  
Data File: >C6775::D5                      Dilution Factor: 1.00000  
Name: 015226N C6527  
Misc: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

ID File: IC210#::D4  
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS  
Last Calibration: 940211 07:40

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	8.39	128.0	-21247	50.00	ug/l	88
26) 1,2-Dichloroethane-D4 (SURR)	9.56	65.0	31105	40.79	ug/l	80
29) *1,4-DIFLUOROBENZENE (ISTD)	10.48	114.0	-80253	50.00	ug/l	89
48) *CHLOROBENZENE-d5 (ISTD)	16.86	117.0	-62736	50.00	ug/l	89
49) Toluene-D8 (SURR)	13.58	98.0	54988	41.10	ug/l	89
60) Bromofluorobenzene (SURR)	19.67	95.0	56371	43.39	ug/l	88
68) 1,3,5-Trimethylbenzene	-20.65	105.0	4958	2.59	ug/l	82
70) 1,2,4-Trimethylbenzene	-21.43	105.0	9533	4.94	ug/l	74

\* Compound is ISTD



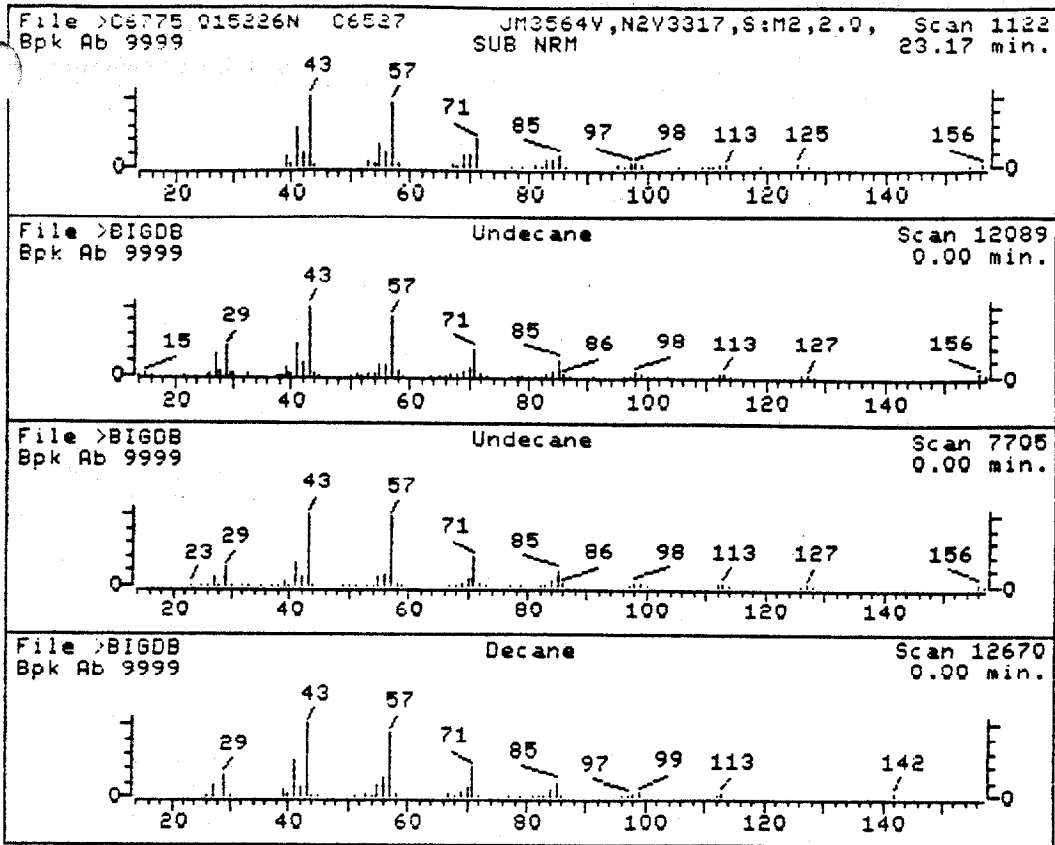
Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 20.72  
 Scan: 997  
 Area: 195721 Rank: 3  
 Semi-quantitative Conc (uncorrected): 43.82 ug/l  
 Semi-quantitative Conc (corrected): 1095.52 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |           |            |
|-----------|------------|
| 1. Decane | 142 C10H22 |
| 2. Decane | 142 C10H22 |
| 3. Decane | 142 C10H22 |

Sample file: >C6775 Spectrum #: 997  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 57

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1. 96*	124185	12669	"BIGDB	85	8	0	0	88	1	72	96
93*	124185	12021	"BIGDB	84	13	1	2	87	1	68	86
86	124185	12668	"BIGDB	78	22	1	0	70	3	60	38





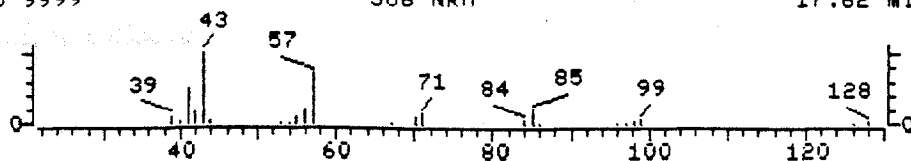
Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 23.17  
 Scan: 1122  
 Area: 139565 Rank: 5  
 Semi-quantitative Conc (uncorrected): 31.25 ug/l  
 Semi-quantitative Conc (corrected): 781.19 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- 1. Undecane 156 C11H24
- 2. Undecane 156 C11H24
- 3. Decane 142 C10H22

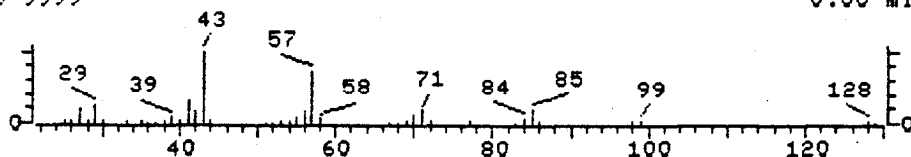
Sample file: >C6775 Spectrum #: 1122  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 57

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	1120214	12089	"BIGDB	75	22	0	0	85	9	68 93
	93*	1120214	7705	"BIGDB	70	26	0	0	93	4	68 89
	83	124185	12670	"BIGDB	61	38	1	0	77	5	57 22

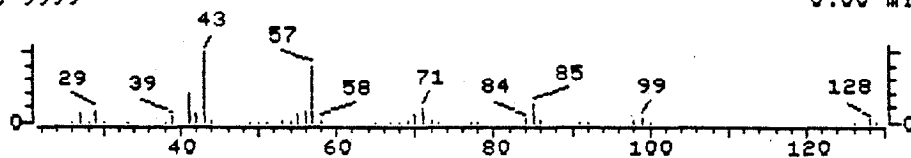
File >C6775 015226N C6527 JM3564U,N2V3317,S:M2,2.0, Scan 838  
 Bpk Ab 9999 SUB NRM 17.62 min.



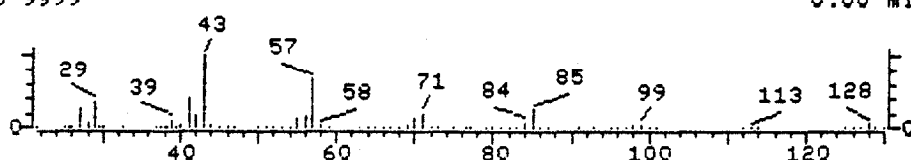
File >BIGDB Nonane Scan 12647  
 Bpk Ab 9999 0.00 min.



File >BIGDB Nonane Scan 12646  
 Bpk Ab 9999 0.00 min.



File >BIGDB Nonane Scan 11968  
 Bpk Ab 9999 0.00 min.

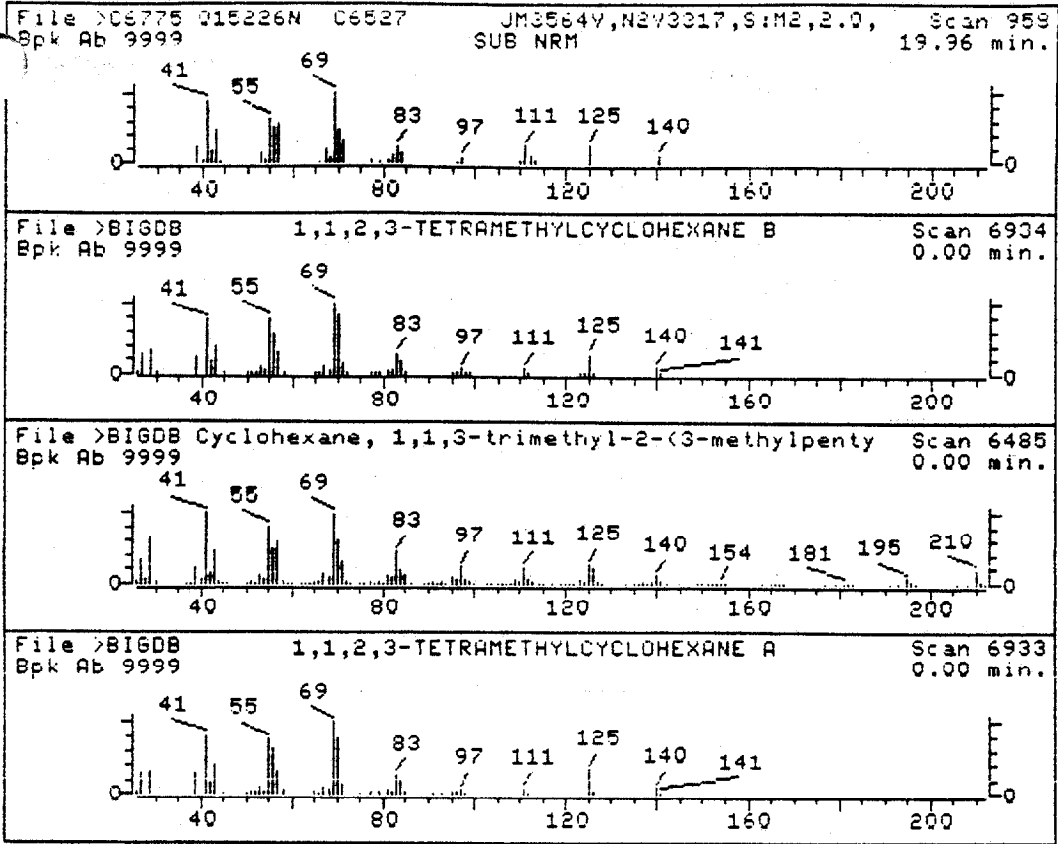


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 17.62  
 Scan: 838  
 Area: 114147 Rank: 6  
 Semi-quantitative Conc (uncorrected): 25.56 ug/l  
 Semi-quantitative Conc (corrected): 638.92 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |           |           |
|-----------|-----------|
| 1. Nonane | 128 C9H20 |
| 2. Nonane | 128 C9H20 |
| 3. Nonane | 128 C9H20 |

Sample file: >C6775 Spectrum #: 838  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89*	111842	12647	"BIGDB	68	24	0	0	93	6	62	83
	89*	111842	12646	"BIGDB	68	27	1	0	69	3	66	66
	76	111842	11968	"BIGDB	71	25	2	0	77	10	45	26

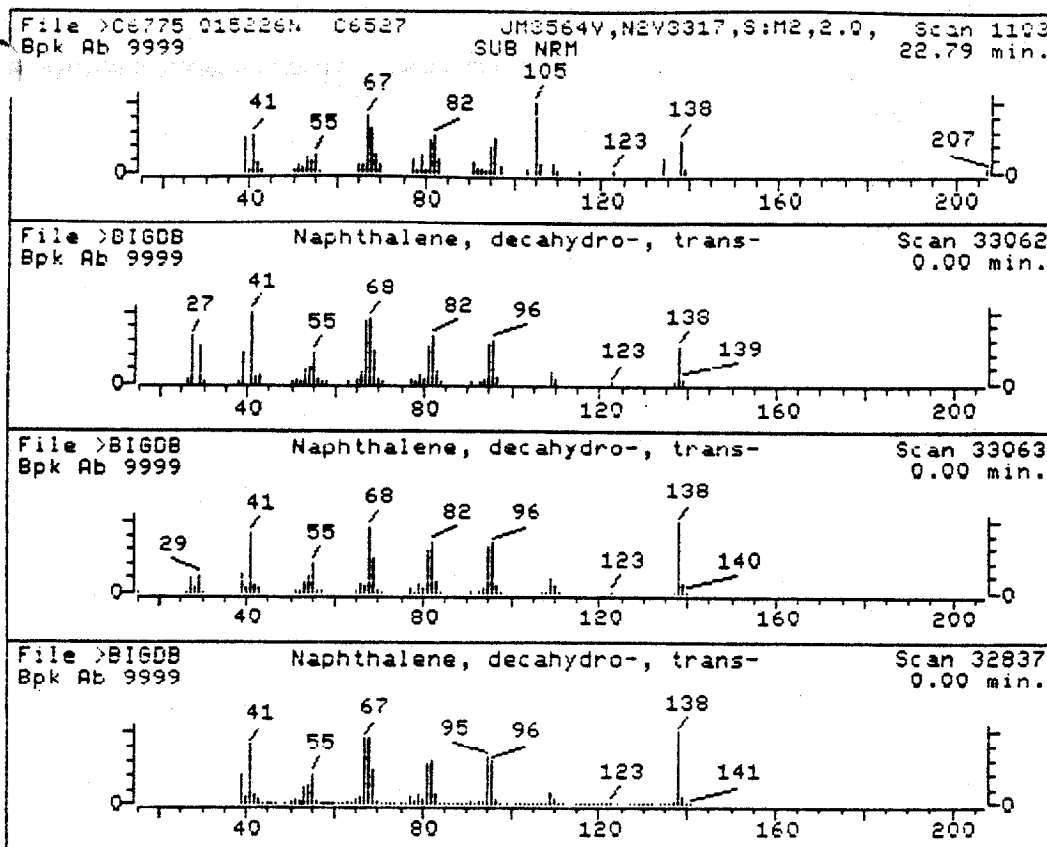


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 19.96  
 Scan: 958  
 Area: 81172 Rank: 8  
 Semi-quantitative Conc (uncorrected): 18.17 ug/l  
 Semi-quantitative Conc (corrected): 454.35 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- 1. 1,1,2,3-TETRAMETHYLCYCLOHEXANE B 140 C10H20
- 2. Cyclohexane, 1,1,3-trimethyl-2-(3-methylpentyl)- 210 C15H30
- 3. 1,1,2,3-TETRAMETHYLCYCLOHEXANE A 140 C10H20

Sample file: >C6775 Spectrum #: 958  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 50

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV	
1.	72*	0	6934	"BIGDB	75	40	1	0	72	32	32	73
	70	54965058	6495	"BIGDB	74	70	3	0	77	10	42	13
	65*	0	6933	"BIGDB	60	53	1	0	59	32	24	56



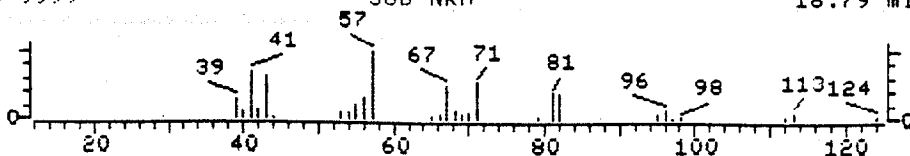
Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 22.79  
 Scan: 1103  
 Area: 61753 Rank: 9  
 Semi-quantitative Conc (uncorrected): 13.83 ug/l  
 Semi-quantitative Conc (corrected): 345.65 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |                                    |            |
|------------------------------------|------------|
| 1. Naphthalene, decahydro-, trans- | 138 C10H18 |
| 2. Naphthalene, decahydro-, trans- | 138 C10H18 |
| 3. Naphthalene, decahydro-, trans- | 138 C10H18 |

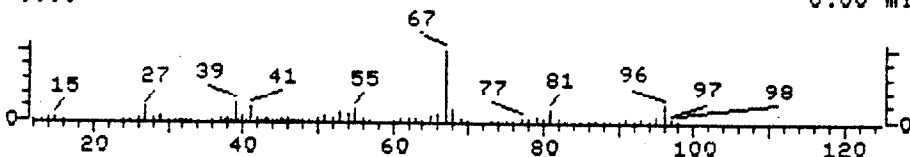
Sample file: >C6775 Spectrum #: 1103  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1. 93*	493027	33062	"BIGDB	96	26	1	0	67	12	64	93
92*	493027	33063	"BIGDB	107	10	0	2	50	25	53	93
81*	493027	32837	"BIGDB	80	43	0	1	54	25	41	77

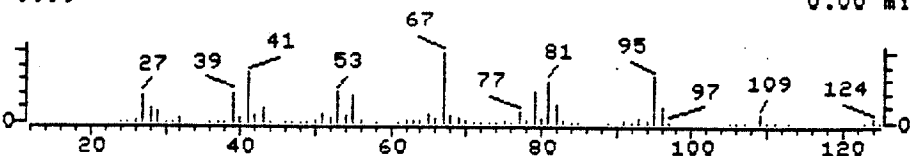
File >C6775 015226N C6527 JMS564V,N2V3317,S:M2,2.0, Scan 898  
 Bpk Ab 9999 SUB NRM 18.79 min.



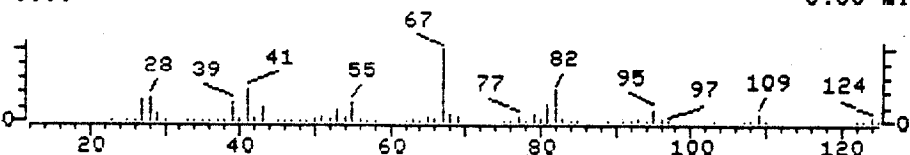
File >BIGDB Cyclopentane, ethylidene- Scan 5799  
 Bpk Ab 9999 0.00 min.



File >BIGDB 3-Octyne, 5-methyl- Scan 1158  
 Bpk Ab 9999 0.00 min.



File >BIGDB 3-Octyne, 7-methyl- Scan 5835  
 Bpk Ab 9999 0.00 min.

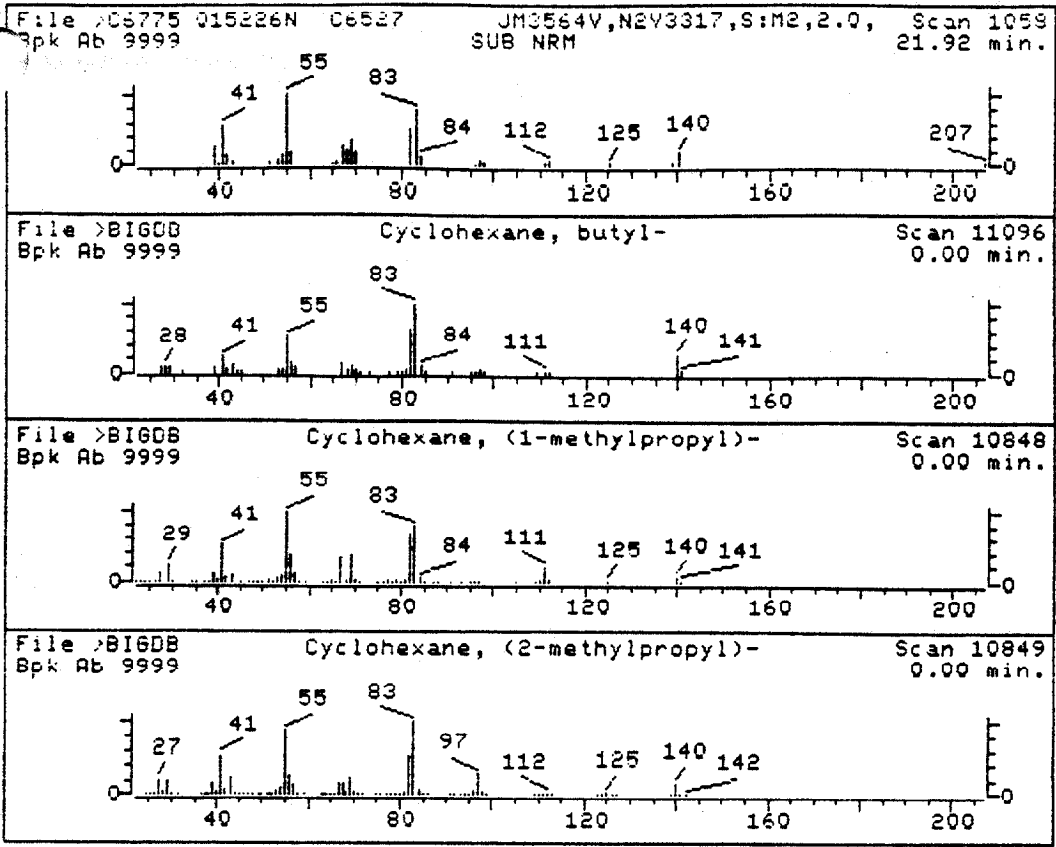


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 18.79  
 Scan: 898  
 Area: 59772 Rank: 10  
 Semi-quantitative Conc (uncorrected): 13.38 ug/l  
 Semi-quantitative Conc (corrected): 334.56 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |                              |           |
|------------------------------|-----------|
| 1. Cyclopentane, ethylidene- | 96 C7H12  |
| 2. 3-Octyne, 5-methyl-       | 124 C9H16 |
| 3. 3-Octyne, 7-methyl-       | 124 C9H16 |

Sample file: >C6775 Spectrum #: 898  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 54

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	21*	2146374	5799	"BIGDB	49	44	2	0	51	58	5 30

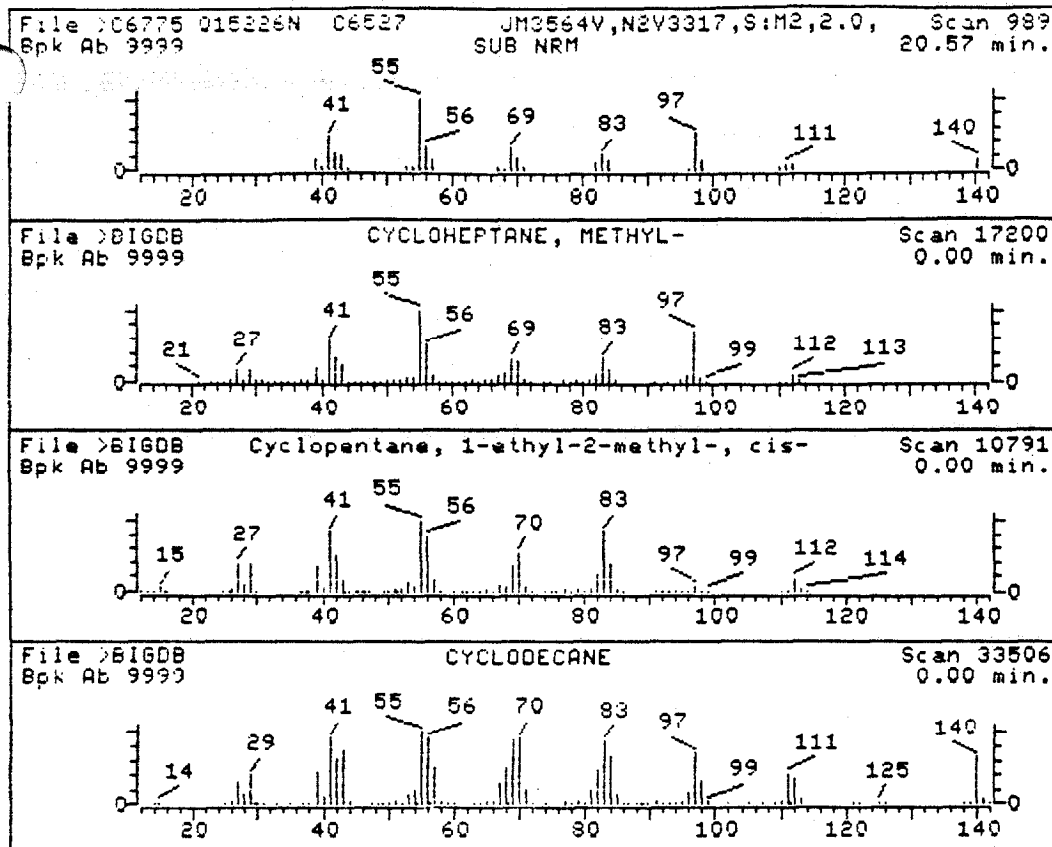


Data File: >C6775::D5  
 Name: 015226N C6527  
 Misc Data: JM3564U,N2U3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
 RT (min): 21.92  
 Scan: 1058  
 Area: 50928 Rank: 11  
 Semi-quantitative Conc (uncorrected): 11.40 ug/l  
 Semi-quantitative Conc (corrected): 285.06 ug/kg  
 Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- 1. Cyclohexane, butyl- 140 C10H20
- 2. Cyclohexane, (1-methylpropyl)- 140 C10H20
- 3. Cyclohexane, (2-methylpropyl)- 140 C10H20

Sample file: >C6775 Spectrum #: 1058  
 Search speed: 2 Tilting option: S No. of ion ranges searched: 49

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
42*	1678939	11096	"BIGDB	44	54	2	0	66	27	14	19
42*	7058017	10848	"BIGDB	38	62	3	0	73	23	17	13
42*	1678984	10849	"BIGDB	35	70	3	0	76	23	17	13



Data File: >C6775::D5

Name: 015226N C6527

Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 20.57

Scan: 989

Area: 49150 Rank: 12

Semi-quantitative Conc (uncorrected): 11.00 ug/l

Semi-quantitative Conc (corrected): 275.11 ug/kg

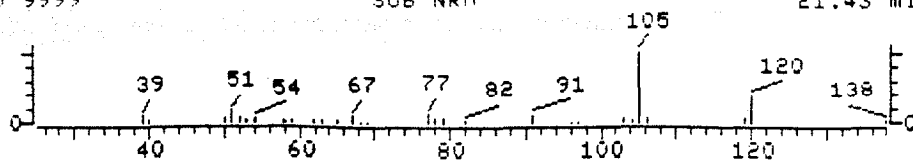
Calculated using Istd: CHLORO BENZENE-d5 (ISTD) @ 16.86 minutes

- |  |            |
|--|------------|
| 1. CYCLOHEPTANE, METHYL-                 | 112 C8H16  |
| 2. Cyclopentane, 1-ethyl-2-methyl-, cis- | 112 C8H16  |
| 3. CYCLODECANE                           | 140 C10H20 |

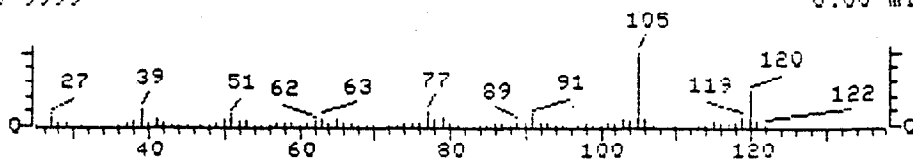
Sample file: >C6775 Spectrum #: 989  
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	0	17200	"BIGDB	60	46	2	0	64	14	38 37

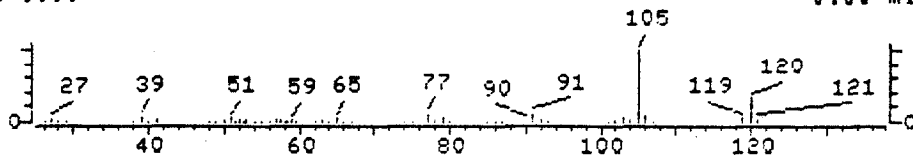
File >C6775 015226N C6527 JM3564U,N2V3317,S:M2,2.0, Scan 1033  
Bpk Ab 9999 SUB NRM 21.43 min.



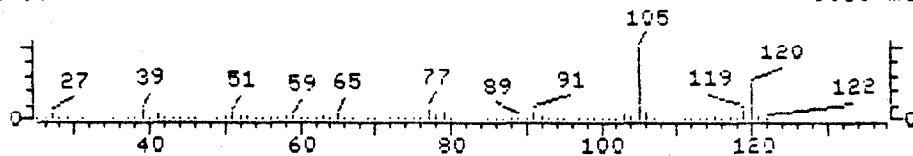
File >BIGDB Benzene, 1,2,3-trimethyl- Scan 26594  
Bpk Ab 9999 0.00 min.



File >BIGDB Benzene, 1-ethyl-3-methyl- Scan 26606  
Bpk Ab 9999 0.00 min.



File >BIGDB Benzene, 1,2,4-trimethyl- Scan 26599  
Bpk Ab 9999 0.00 min.



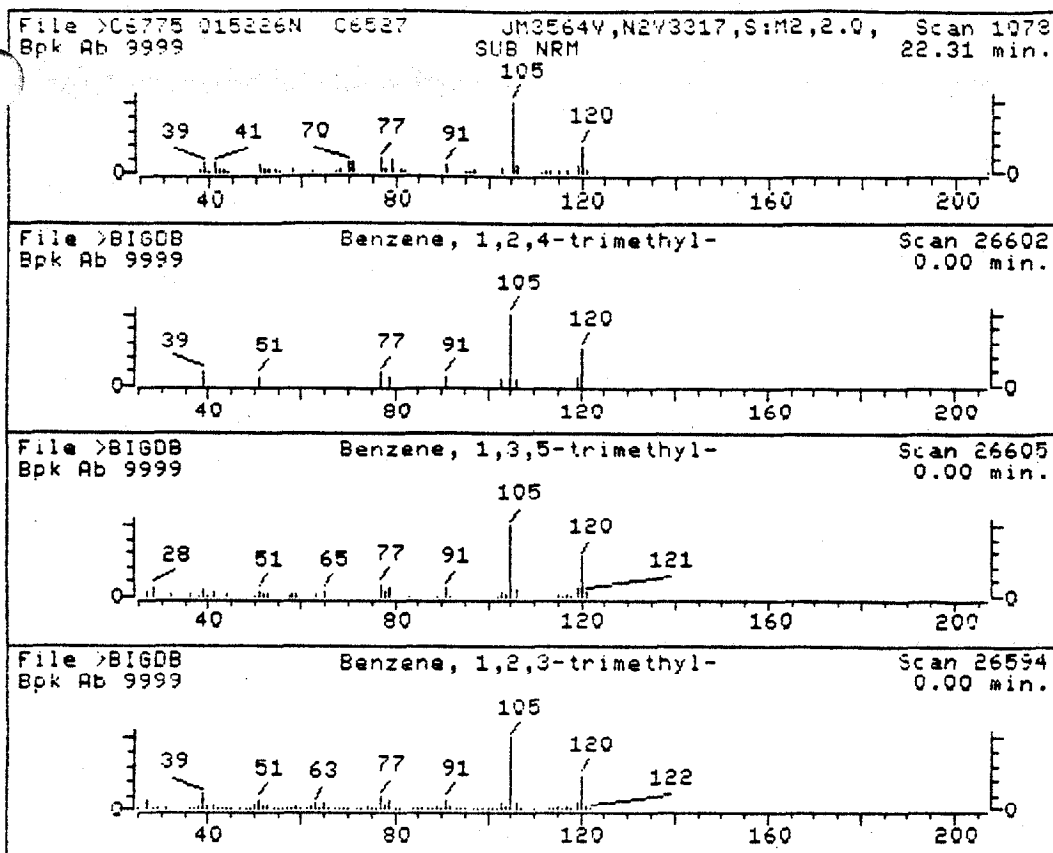
Data File: >C6775::D5  
Name: 015226N C6527  
Misc Data: JM3564U,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER  
RT (min): 21.43  
Scan: 1033  
Area: 45850 Rank: 13  
Semi-quantitative Conc (uncorrected): 10.27 ug/l  
Semi-quantitative Conc (corrected): 256.64 ug/kg  
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

- |                               |           |
|-------------------------------|-----------|
| 1. Benzene, 1,2,3-trimethyl-  | 120 C9H12 |
| 2. Benzene, 1-ethyl-3-methyl- | 120 C9H12 |
| 3. Benzene, 1,2,4-trimethyl-  | 120 C9H12 |

Sample file: >C6775 Spectrum #: 1033  
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1. 87*	526738	26594	"BIGDB	67	33	2	0	69	4	63	46
87*	620144	26606	"BIGDB	60	29	2	0	100	4	63	46
86*	95636	26599	"BIGDB	51	41	2	0	77	4	60	33





Data File: >C6775::D5

Name: 015226N C6527

Misc Data: JM3564V,N2V3317,S:M2,2.0,5.0:50, 100ul EXTRACT/5ml WATER

RT (min): 22.31

Scan: 1078

Area: 45441 Rank: 14

Semi-quantitative Conc (uncorrected): 10.17 ug/l

Semi-quantitative Conc (corrected): 254.35 ug/kg

Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 16.86 minutes

1. Benzene, 1,2,4-trimethyl-	120 C9H12
2. Benzene, 1,3,5-trimethyl-	120 C9H12
3. Benzene, 1,2,3-trimethyl-	120 C9H12

Sample file: >C6775 Spectrum #: 1078  
Search speed: 2 Tilting option: S No. of ion ranges searched: 47

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	95636	26602	"BIGDB	66	3	0	0	74	14	64 97
	81*	108678	26605	"BIGDB	66	29	2	2	78	10	53 46
	81*	526738	26594	"BIGDB	67	33	2	0	75	10	53 46

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA HBLK

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water)water Lab Sample ID: N7H40180H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 149351

% Moisture:        decanted: (Y/N)        Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		<u>250</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA HSPK

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: N7740180 HS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9357

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: <sup>02</sup> 03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>03</sup> 03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7-----	2,4,D		<u>7280</u>
93-72-1-----	2,4,5-TP (SILVEX)		<u>2160</u>

0204

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528-MS

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM 3557HS

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H9353

% Moisture:        decanted: (Y/N)        Date Received: <sup>02</sup>03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup>03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		3650
93-72-1----	2,4,5-TP (SILVEX)		1190

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528-MSD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM13557HR

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 749354

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: <sup>02</sup>03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup>03/24/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
94-75-7-----	2,4,D	<u>4480</u>	_____
93-72-1-----	2,4,5-TP (SILVEX)	<u>1290</u>	_____

0206

EPA SAMPLE NO.

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C 6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM 3557H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1 H 9355

% Moisture:        decanted: (Y/N)        Date Received: 02/05/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		<u>250</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6529

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM3558H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: H9356

% Moisture:        decanted: (Y/N)        Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
94-75-7----	2,4,D	<u>250</u>	<u>U</u>
93-72-1----	2,4,5-TP (SILVEX)	<u>250</u>	<u>U</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-05-06

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM 3559H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9357

% Moisture:        decanted: (Y/N)        Date Received: <sup>02</sup>03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup>03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
94-75-7----	2,4,D		<u>250</u>	<u>✓</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>	<u>✓</u>



ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA

CLJ-05-07

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water

Lab Sample ID: JM3560H

Sample wt/vol: 2.0 (g/mL) mL

Lab File ID: H9358

% Moisture:        decanted: (Y/N)       

Date Received: 03/18/94

Extraction: (SepF/Cont/Sonc) SepF

Date Extracted: 03/28/94

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:       

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		<u>250</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA

CLJ-DS-07D

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM3561H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 1H9359

% Moisture:        decanted: (Y/N)        Date Received: 8<sup>2</sup>3/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 8<sup>2</sup>3/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/10/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
94-75-7----	2,4,D	<u>250</u>	<u>0</u>
93-72-1----	2,4,5-TP (SILVEX)	<u>250</u>	<u>0</u>

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-08

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JM3562H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: H9360

% Moisture:        decanted: (Y/N)        Date Received: <sup>02</sup>03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: <sup>02</sup>03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/11/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		<u>250</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>

ORGANICS ANALYSIS DATA SHEET

CLJ-DS-09

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water)water Lab Sample ID: JM 3563H

Sample wt/vol: 2.0 (g/mL) mL Lab File ID: 7H 9363

% Moisture:        decanted: (Y/N)        Date Received: 02/03/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 02/03/28/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/11/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:        Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
94-75-7----	2,4,D		<u>250</u>
93-72-1----	2,4,5-TP (SILVEX)		<u>250</u>

HERBICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

GC Column(1): DB-5 ID: .53 GC Column(2): \_\_\_\_\_ ID: \_\_\_\_\_

	EPA SAMPLE NO.	DPAA % REC #	TOT OUT
01	HBLK	107	0
02	HSPK	109	0
03	C6528 MS	88.7	0
04	C6528 MSD	109	0
05	C6528	120	0
06	C6529	107	0
07	CLJ-DS-06	113	0
08	CLJ-DS-07	112	0
09	CLJ-DS-07D	118	0
10	CLJ-DS-08	72.4	0
11	CLJ-DS-09	130	0
12	HBLK QIF	81.2	0
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

ADVISORY  
QC LIMITS

DPAA = 2,4-Dichlorophenylacetic acid (30 -130)

- # Column to be used to flag recovery values
- \* Values outside of QC limits
- D Surrogate diluted out

## HERBICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NAMatrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
2,4,D	4190	0	3650	87.2	30-130
2,4,5-TP (Silvex)	1160	0	1190	103	30-130
					30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
2,4,D	4190	4480	107	20.3	30	30-130
2,4,5-TP (Silvex)	1160	1290	111	7.87	30	30-130
					30	30-130

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

\* Values outside of QC limits

RPD: 0 out of 2 outside limits  
Spike Recovery: 0 out of 4 outside limits

COMMENTS: \_\_\_\_\_

## HERBICIDE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: NABlank Spike - EPA Sample No.: HSPK

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
2,4,D	8370	0	7280	86.9	30-130
2,4,5-TP (Silvex)	2310	0	2160	93.3	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: \_\_\_\_\_

HERBICIDE METHOD BLANK SUMMARY

HBLK

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab Sample ID: N7H Lab File ID: H9351

Matrix: (soil/water) water Extraction: (SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) Y Date Extracted: 8<sup>2</sup> / 28 / 94

Date Analyzed (1): 03/10/94 Date Analyzed (2): 3/10/94

Time Analyzed (1): 20:44 Time Analyzed (2): 20:44

Instrument ID (1): C4F Instrument ID (2): C4F

GC Column (1): DB-5 ID: .53 (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	HSPK	N7H40180HS	03/10/94	
02	C6528 MS	JM3557HS		
03	C6528 MSD	JM3557HR		
04	C6528	JM3557H		
05	C6529	JM3558H		
06	C65-DS-06	JM3559H		
07	C65-DS-07	JM3560H	03/11/94	
08	C65-DS-07D	JM3561H		
09	C65-DS-08	JM3562H		
10	C65-DS-09	JM3563H		
11	HBLK01F	JM0000H		
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

COMMENTS: \_\_\_\_\_



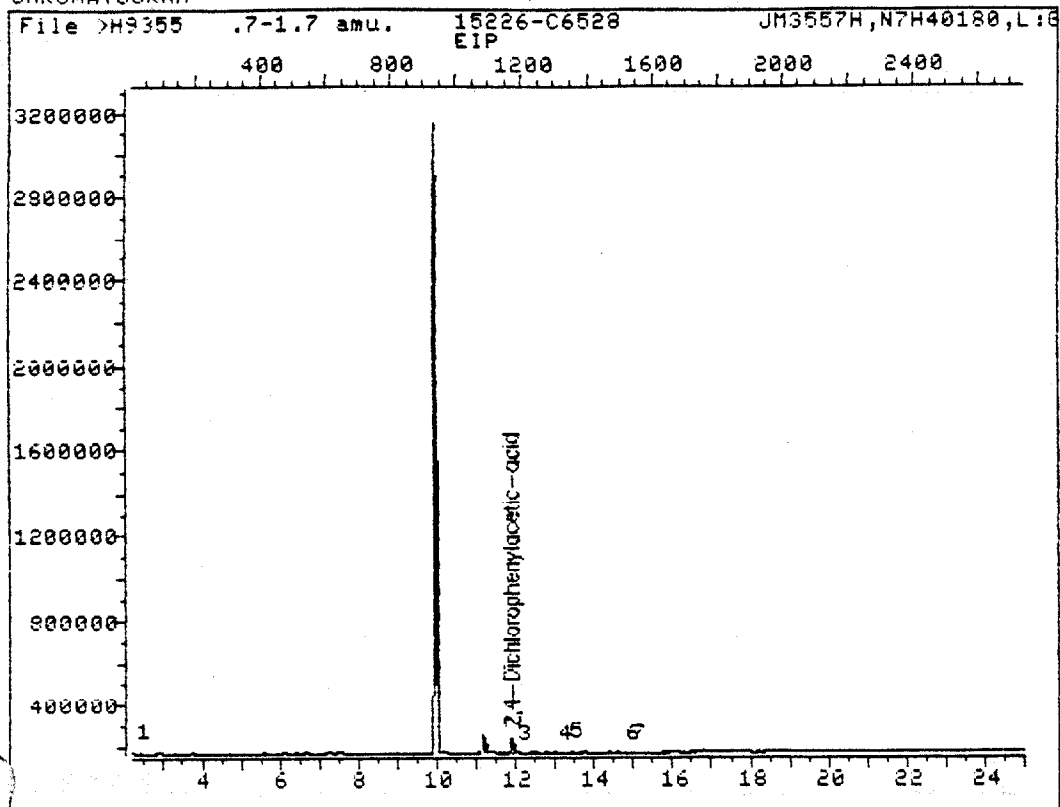
## HERBICIDE INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01Instrument ID: C4F Calibration Date (s): 3/10/94Calibration Time (s): 1358

LAB FILE ID:	CLOW = <u>H 9333</u>	CMEDL = <u>H 9334</u>
CMED = <u>H 9335</u>	CMEDH = <u>H 9336</u>	CHIGH = <u>H 9337</u>

COMPOUND	CLOW	CMEDL	CMED	CMEDH	CHIGH	$\bar{CF}$	% RSD
2,4-D	961300	859700	773712	689432	628733	782525	16.9
2,4,5-TP (SILVEX)	3652470	3386085	3240528	3011921	2859759	323073	9.64
DPAA (surr)	—	683680	581504	511522	440707	554353	18.7

## CHROMATOGRAM



Data File: >H9355::D2  
Name: 15226-C6528  
Misc: JM3557H,N7H40180,L:G1,2,5:1,

Quant Output File: ^H9355::D2  
Instrument ID: H

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qual Time: <none>

Operator ID: USER2  
Quant Time : 940310 23:18  
Injected at: 940310 22:53

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: ^H9355::D2  
 Data File: >H9355::D2  
 Name: 15226-C6528  
 Misc: JM3557H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940310 23:18  
 Injected at: 940310 22:53  
 Dilution Factor: 1.00000  
 Instrument ID: H

ID File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD

IHH07

Last Calibration: 940310 14:28

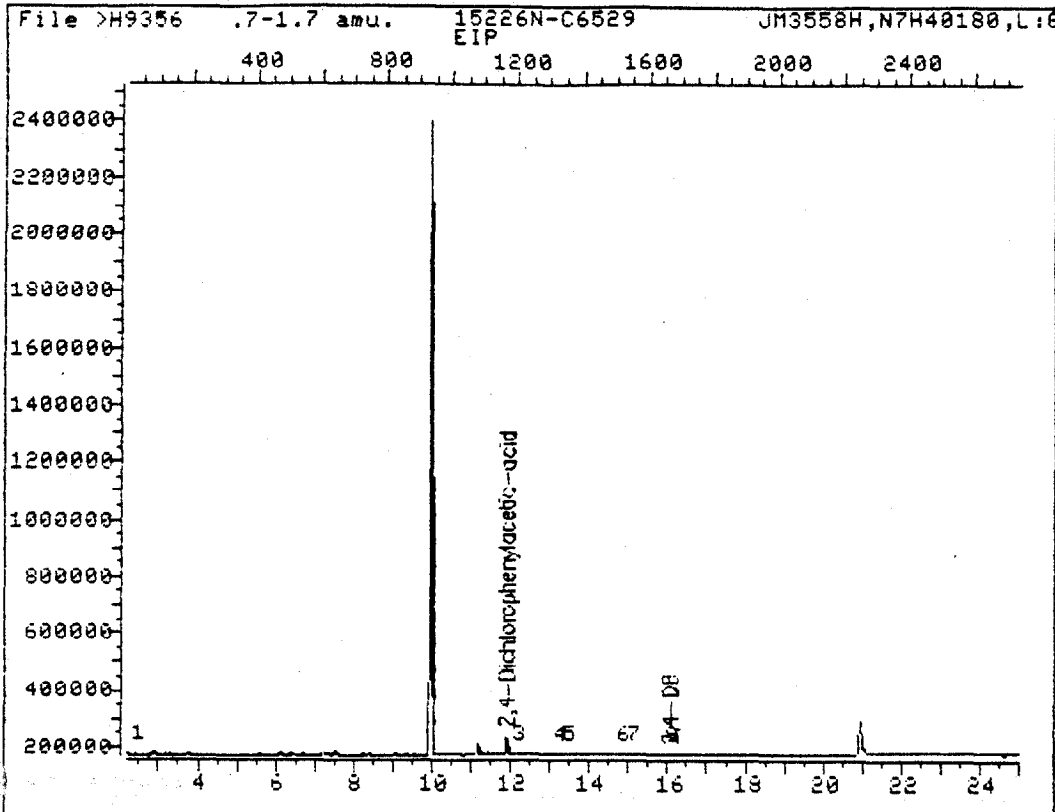
Last Qcal Time: &lt;none&gt;

*Os*

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	18783	.0232	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	256001	.462	ug/ml	100
3) #Dicamba	12.15	1196	2815	.00144	ug/ml	100
4) #Dichloroprop	13.18	1320	6079	.00927	ug/ml	100
5) #2,4-D	13.44	1351	11120	<del>.0142</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.90	1526	5844	<del>.00181</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.05	1544	1856	.000622	ug/ml	100

Compound uses ESTD

CHROMATOGRAM



Data File: >H9356::D2 Quant Output File: ^H9356::D2  
Name: 15226N-C6529 Instrument ID: H  
Misc: JM3558H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940310 23:50  
Injected at: 940310 23:25

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: ^H9356::D2  
 Data File: >H9356::D2  
 Name: 15226N-C6529  
 Misc: JM3558H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940310 23:50  
 Injected at: 940310 23:25  
 Dilution Factor: 1.00000  
 Instrument ID: H

ID File: IHH310::D2

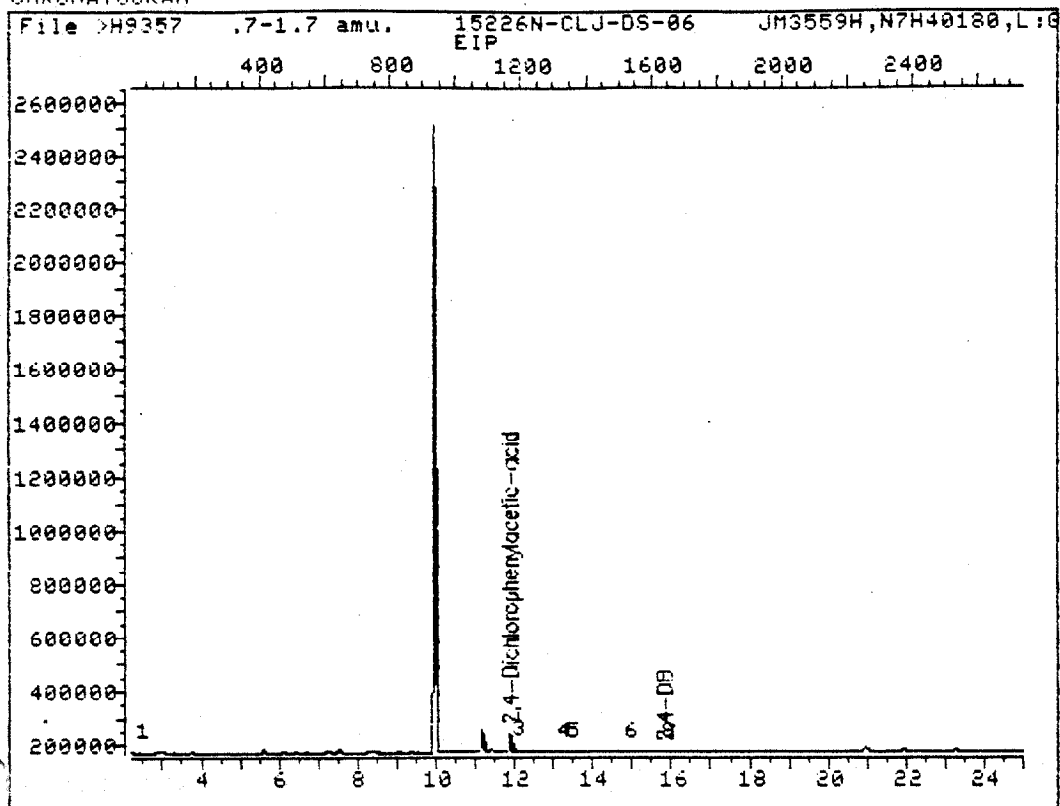
Title: Herbicides by Method 8150 DB-5 ECD  
 Last Calibration: 940310 14:28

IHH007  
 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	14847	.0184	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	229472	.414	ug/ml	100
3) #Dicamba	12.15	1196	2495	.00127	ug/ml	100
4) #Dichloroprop	13.18	1320	11088	.0169	ug/ml	100
5) #2,4-D	13.43	1350	9024	<del>.0115</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.81	1515	1440	.000446	ug/ml	100
7) #2,4,5-T	15.07	1546	2347	.000786	ug/ml	100
8) #2,4-DB	16.03	1662	100809	.276	ug/ml	100
9) #Dinoseb	16.03	1662	100809	.0411	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >H9357::D2  
Name: 15226N-CLJ-DS-06  
Misc: JM3559H,N7H40180,L:G1,2,5:1,

Quant Output File: ^H9357::D2  
Instrument ID: H

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940311 00:23  
Injected at: 940310 23:57

## QUANT REPORT

Page 1

Operator ID: USER2                      Quant Rev: 7            Quant Time: 940311 00:23  
 Output File: ^H9357::D2                      Injected at: 940310 23:57  
 Data File: >H9357::D2                      Dilution Factor: 1.00000  
 Name: 15226N-CLJ-DS-06                      Instrument ID: H  
 Misc: JM3559H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD

IHH007

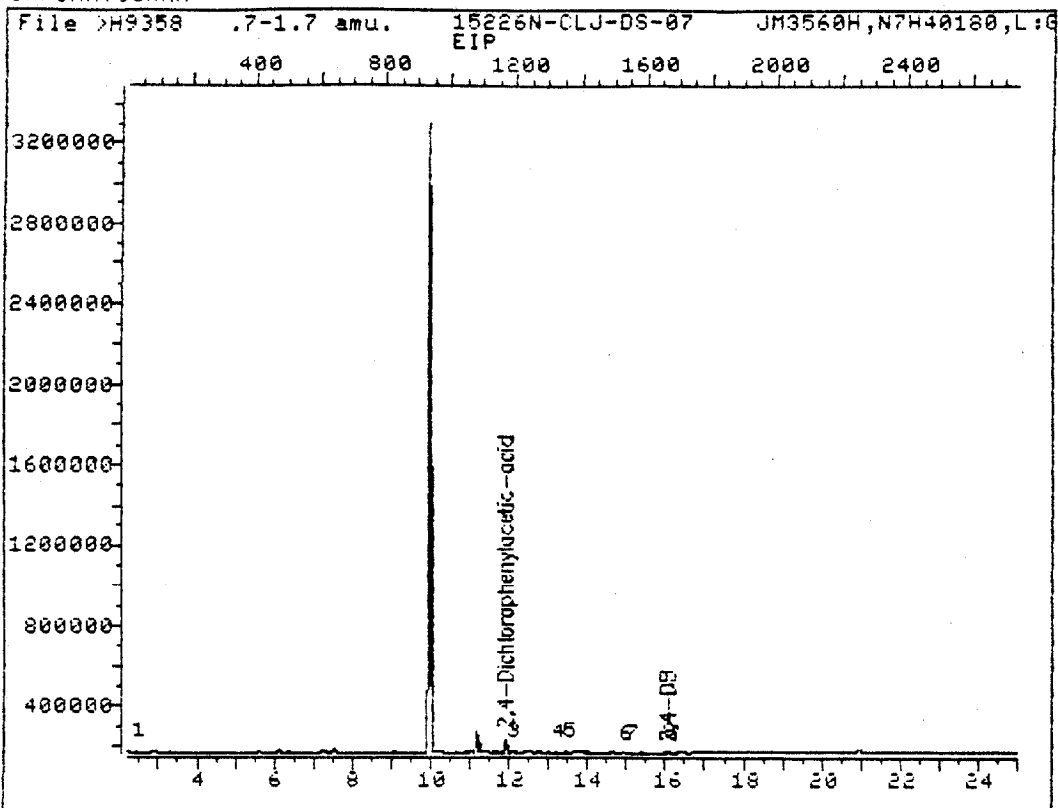
Last Calibration: 940310 14:28

Last Qual Time: &lt;none&gt;

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	14015	.0173	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	242401	.437	ug/ml	100
3) #Dicamba	12.02	1181	30157	.0154	ug/ml	100
4) #Dichloroprop	13.19	1321	4672	.00713	ug/ml	100
5) #2,4-D	13.43	1350	11840	<del>.8151</del>	ug/ml	100
6) #2,4,5-TP (Silvex)	14.91	1527	3936	<del>.00122</del>	ug/ml	100
8) #2,4-DB	15.82	1636	6599	.0181	ug/ml	100
9) #Dinoseb	15.82	1636	4487	.00183	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;H9358::D2

Quant Output File: ^H9358::D2

Name: 15226N-CLJ-DS-07

Instrument ID: H

Misc: JM3560H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD IHH07

Last Calibration: 940310 14:28

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940311 00:55

Injected at: 940311 00:29



QUANT REPORT

Operator ID: USER2  
Output File: ^H9358::D2  
Data File: >H9358::D2  
Name: 19226N-CLJ-DS-07  
Misc: JM3560H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940311 00:55  
                  Injected at: 940311 00:29  
Dilution Factor: 1.00000  
Instrument ID: H

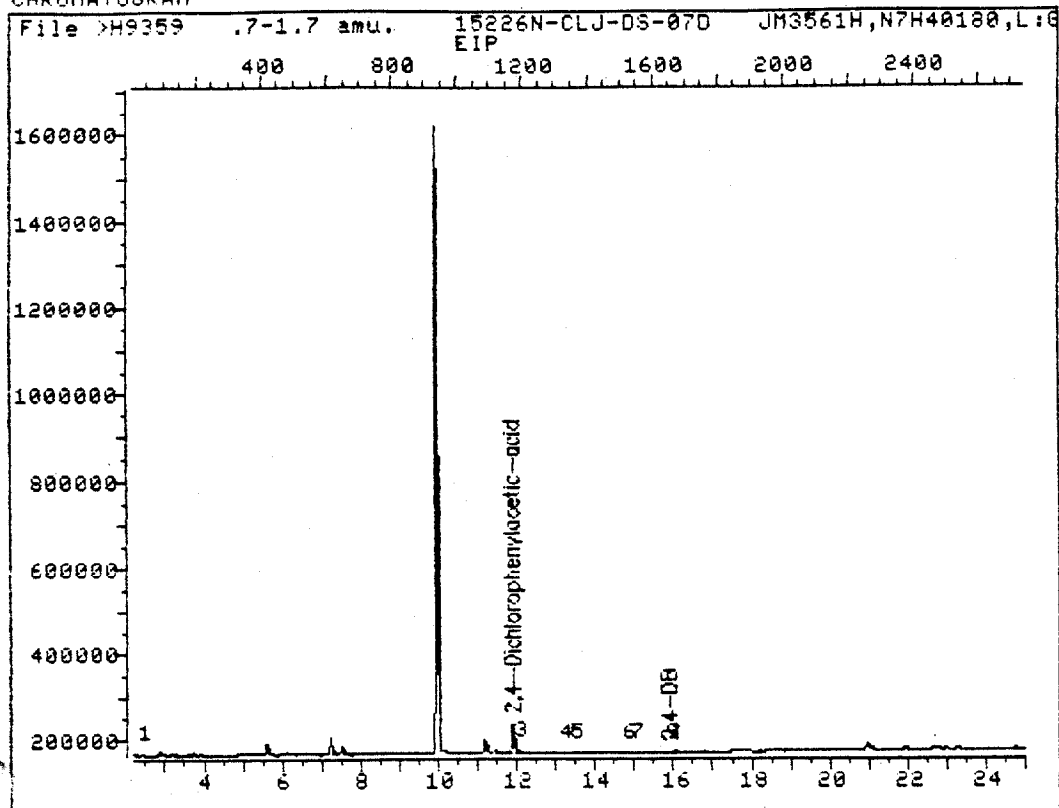
ID File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD  
Last Calibration: 940310 14:28

IHHD07  
Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	18079	.0223	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	239616	.432	ug/ml	100
3) #Dicamba	12.02	1181	20892	.0107	ug/ml	100
4) #Dichloroprop	13.18	1320	5247	.00800	ug/ml	100
5) #2,4-D	13.44	1351	9119	<del>.0117</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.90	1526	3743	.00116	ug/ml	100
7) #2,4,5-T	15.04	1543	1385	.000464	ug/ml	100
8) #2,4-DB	16.03	1662	8448	.0232	ug/ml	100
9) #Dinoseb	16.03	1662	8448	.00344	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;H9359::D2

Quant Output File: ^H9359::D2

Name: 15226N-CLJ-DS-07D

Instrument ID: H

Misc: JM3561H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD IHHD07

Last Calibration: 940310 14:28

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940311 01:27

Injected at: 940311 01:01

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: ^H9359::D2  
 Data File: >H9359::D2  
 Name: 15226N-CLJ-DS-07D  
 Misc: JM3561H,N7H40180,L:G1,2,5:1, .

Quant Rev: 7      Quant Time: 940311 01:27  
 Injected at: 940311 01:01  
 Dilution Factor: 1.00000  
 Instrument ID: H

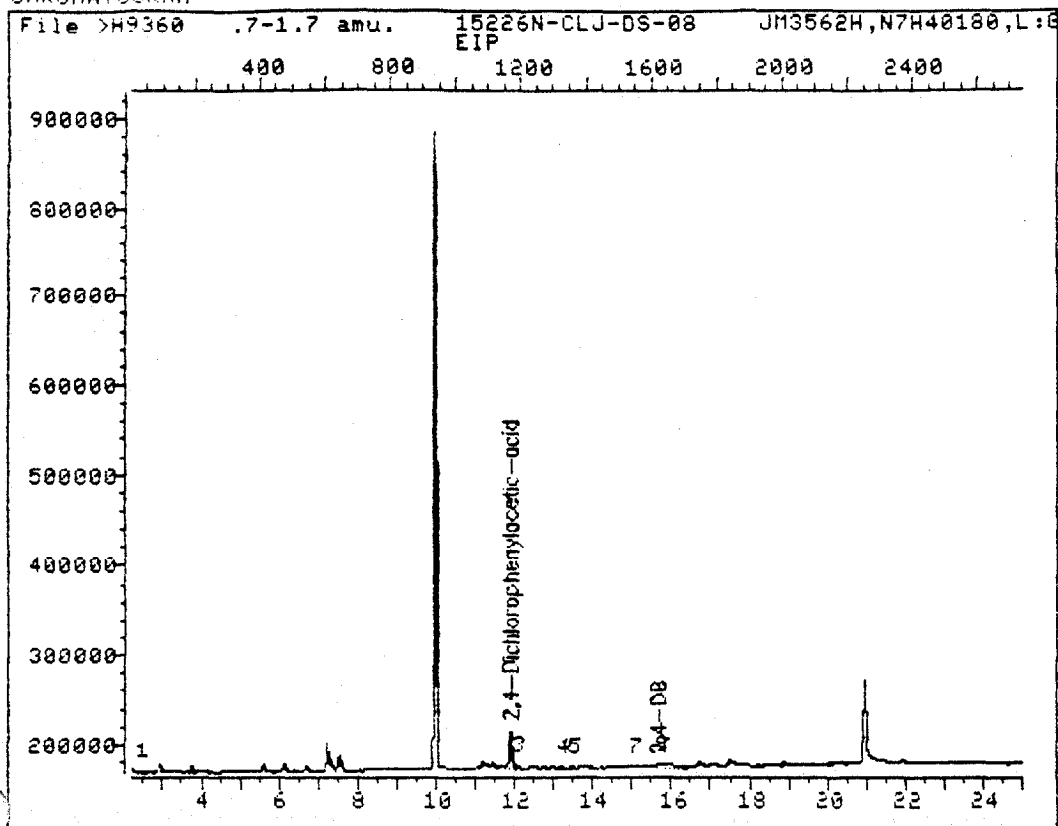
ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD  
 Last Calibration: 940310 14:28

IHH007  
 Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.41	27	11525	.0142	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	252032	.455	ug/ml	100
3) #Dicamba	12.02	1181	16223	.00828	ug/ml	100
4) #Dichloroprop	13.16	1317	11583	.0177	ug/ml	100
5) #2,4-D	13.44	1351	3871	<del>.00495</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.78	1512	2688	<del>.000832</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.03	1542	1439	.000482	ug/ml	100
8) #2,4-DB	15.88	1644	2538	.00696	ug/ml	100
9) #Dinoseb	15.88	1644	2247	.000915	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;H9360::D2

Quant Output File: ^H9360::D2

Name: 15226N-CLJ-DS-08

Instrument ID: H

Misc: JM3562H,N7H40180,L:G1,2,5:1,

Id File: IHH310::D2

Title: Herbicides by Method 8150 DB-5 ECD IHH07

Last Calibration: 940310 14:28

Last Qcal Time: &lt;none&gt;

Operator ID: USER1

Quant Time : 940311 08:02

Injected at: 940311 07:36

QUANT REPORT

Operator ID: USER1  
Output File: ^H9360::D2  
Data File: >H9360::D2  
Name: 15226N-CLJ-DS-08  
Misc: JM3562H,N7H40180,L:G1,2,5:1,

Quant Rev: 7      Quant Time: 940311 08:02  
                  Injected at: 940311 07:36  
Dilution Factor: 1.00000  
Instrument ID: H

ID File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD  
Last Calibration: 940310 14:28

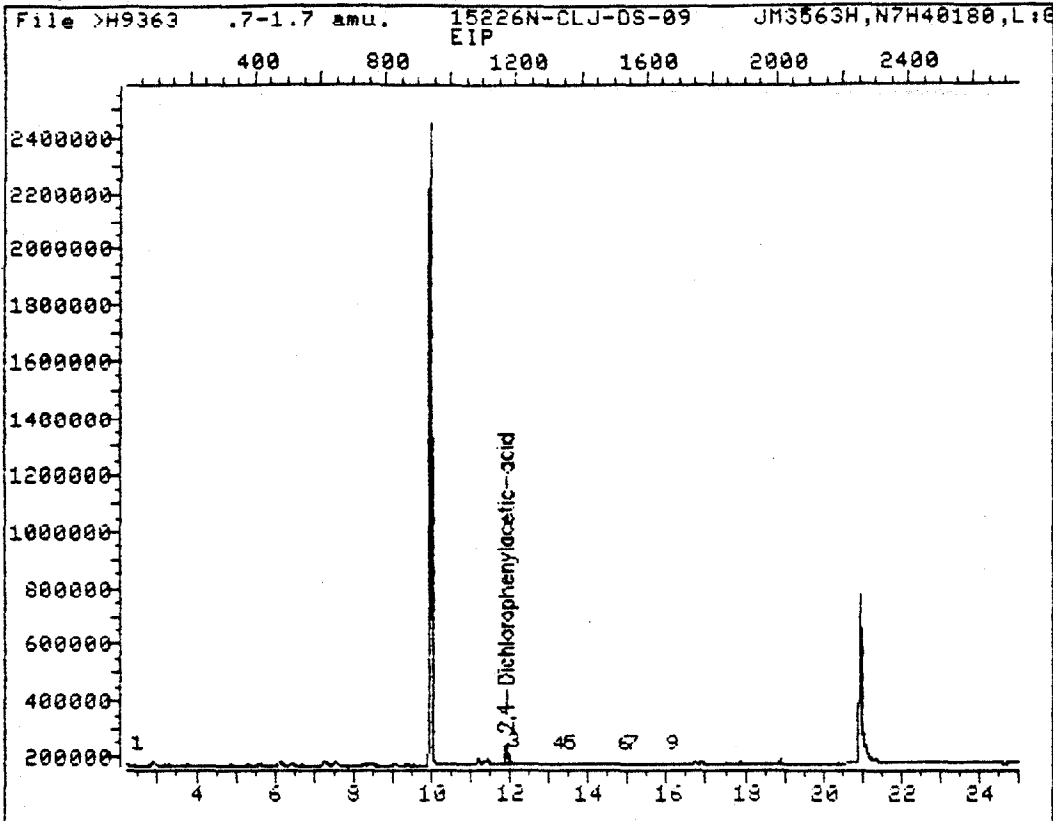
IHH007  
Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.43	29	5983	.00740	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.88	1164	154912	.279	ug/ml	100
3) #Dicamba	12.02	1180	11900	.00607	ug/ml	100
4) #Dichloroprop	13.19	1321	10271	.0157	ug/ml	100
5) #2,4-D	13.44	1351	3793	<del>.00485</del>	<del>ug/ml</del>	100
7) #2,4,5-T	15.01	1539	1184	.000396	ug/ml	100
8) #2,4-DB	15.67	1619	118710	.325	ug/ml	100
9) #Dinoseb	15.67	1619	118710	.0484	ug/ml	100

*Je*

\* Compound uses ESTD

## CHROMATOGRAM



Data File: >H9363::D2  
Name: 15226N-CLJ-DS-09  
Misc: JM3563H,N7H40180,L:G1,2,5:1,

Quant Output File: ^H9363::D2  
Instrument ID: H

Id File: IHH310::D2  
Title: Herbicides by Method 8150 DB-5 ECD IHH07  
Last Calibration: 940310 14:28 Last Qcal Time: <none>

Operator ID: USER1  
Quant Time : 940311 09:38  
Injected at: 940311 09:12

## QUANT REPORT

Page 1

Operator ID: USER1                      Quant Rev: 7            Quant Time: 940311 09:38  
 Output File: ^H9363::D2                      Injected at: 940311 09:12  
 Data File: >H9363::D2                      Dilution Factor: 1.00000  
 Name: 15226N-CLJ-DS-09                      Instrument ID: H  
 Misc: JM3563H,N7H40180,L:G1,2,5:1,

ID File: IHH310::D2  
 Title: Herbicides by Method 8150 DB-5 ECD            IHH007  
 Last Calibration: 940310 14:28                      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #Dalapon	2.42	28	15295	.0189	ug/ml	100
2) #2,4-Dichlorophenylacetic-acid	11.89	1165	277665	.501	ug/ml	100
3) #Dicamba	12.03	1182	34047	.0174	ug/ml	100
4) #Dichloroprop	13.20	1322	29951	.0457	ug/ml	100
5) #2,4-D	13.45	1352	12551	<del>.0160</del>	<del>ug/ml</del>	100
6) #2,4,5-TP (Silvex)	14.83	1517	2496	.000773	ug/ml	100
7) #2,4,5-T	15.08	1548	4522	.00151	ug/ml	100
9) #Dinoseb	16.05	1664	45922	.0187	ug/ml	100

# Compound uses ESTD

0232

EPA SAMPLE NO.

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: NTP40181P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3827

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2<sup>a</sup>/94  
PL

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/7/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>2.00</u> <small>PL</small>	<u>U</u> <small>PL</small>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		



## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PSPK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: N7P40181PS

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^Z3828

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L Q

319-84-6----	alpha-BHC		
319-85-7----	beta-BHC		
319-86-8----	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	7.76	
309-00-2----	Aldrin		
1024-57-3--	Heptachlor Epoxide	8.68	
959-98-8----	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	27.2	
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	25.6	
5103-74-2--	gamma-Chlordane	24.6	
8001-35-2--	Toxaphene	40.0	U
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA PSPKOIT

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: N7P40181PST

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Y3577

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	2.00	U
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	2.00	U
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	2.00	U
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	2.00	U
5103-74-2--	gamma-Chlordane	2.00	U
8001-35-2--	Toxaphene	3.00	
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528MS

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3557PS

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: ^23829

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	15.3	
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	19.0	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	20.2	
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	17.2	
5103-74-2--	gamma-Chlordane	16.8	
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528MST

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM 3557PST

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Y3578

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	2.00	U
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	2.00	U
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	2.00	U
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	2.00	U
5103-74-2--	gamma-Chlordane	2.00	U
8001-35-2--	Toxaphene	135	
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528MSD

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water)WATER Lab Sample ID: JM3557PR

Sample wt/vol: 25.0(g/mL) mL Lab File ID: Z3830

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)		
76-44-8----	Heptachlor	14.7	
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	18.1	
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	19.5	
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	17.4	
5103-74-2--	gamma-Chlordane	17.2	
8001-35-2--	Toxaphene		
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3557P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3833

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
319-84-6----	alpha-BHC		
319-85-7----	beta-BHC		
319-86-8----	delta-BHC		
58-89-9-----	gamma-BHC (Lindane)	<u>2.00</u>	<u>U</u>
76-44-8-----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2----	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8----	Endosulfan I		
60-57-1-----	Dieldrin		
72-55-9-----	4,4'-DDE		
72-20-8-----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8-----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3-----	4,4'-DDT		
72-43-5-----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA C6529

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3558P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: A23834

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<del>2.00</del>	<del>U</del> <sup>U D2</sup>
76-44-8----	Heptachlor	2.00	U
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	2.00	U
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	2.00	U
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	2.00	U
5103-74-2--	gamma-Chlordane	2.00	U
8001-35-2--	Toxaphene	40.0	U
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-06  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3559P  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3835  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>2.00</u>	<u>U</u>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		



ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3560P

Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3836

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>ug/L</u>	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>DL</u> <u>2.00</u>	<u>U</u>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07D  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3561P  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: 123837  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	ug/L	Q
319-84-6---	alpha-BHC			
319-85-7---	beta-BHC			
319-86-8---	delta-BHC			
58-89-9----	gamma-BHC (Lindane)	2.00		U
76-44-8----	Heptachlor	2.00		U
309-00-2---	Aldrin			
1024-57-3--	Heptachlor Epoxide	2.00		U
959-98-8---	Endosulfan I			
60-57-1----	Dieldrin			
72-55-9----	4,4'-DDE			
72-20-8----	Endrin	2.00		U
33213-65-9-	Endosulfan II			
72-54-8----	4,4'-DDD			
1031-07-8--	Endosulfan sulfate			
50-29-3----	4,4'-DDT			
72-43-5----	Methoxychlor			
53494-70-5-	Endrin ketone			
7421-36-3--	Endrin aldehyde			
5103-71-9--	alpha-Chlordane	2.00		U
5103-74-2--	gamma-Chlordane	2.00		U
8001-35-2--	Toxaphene	40.0		U
12674-11-2-	Aroclor-1016			
11104-28-2-	Aroclor-1221			
11141-16-5-	Aroclor-1232			
53469-21-9-	Aroclor-1242			
12672-29-6-	Aroclor-1248			
11097-69-1-	Aroclor-1254			
11096-82-5-	Aroclor-1260			

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-08  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water)WATER Lab Sample ID: JM3562P  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: ^Z3838  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		DL
58-89-9----	gamma-BHC (Lindane)	2.00	U
76-44-8----	Heptachlor	2.00	U
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	2.00	U
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	2.00	U
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	2.00	U
5103-74-2--	gamma-Chlordane	2.00	U
8001-35-2--	Toxaphene	40.0	U
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3563P  
 Sample wt/vol: 25.0(g/mL) mL Lab File ID: AZ3839  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/2/94  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/8/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
319-84-6---	alpha-BHC		
319-85-7---	beta-BHC		
319-86-8---	delta-BHC		
58-89-9----	gamma-BHC (Lindane)	<u>2.00</u>	<u>U</u>
76-44-8----	Heptachlor	<u>2.00</u>	<u>U</u>
309-00-2---	Aldrin		
1024-57-3--	Heptachlor Epoxide	<u>2.00</u>	<u>U</u>
959-98-8---	Endosulfan I		
60-57-1----	Dieldrin		
72-55-9----	4,4'-DDE		
72-20-8----	Endrin	<u>2.00</u>	<u>U</u>
33213-65-9-	Endosulfan II		
72-54-8----	4,4'-DDD		
1031-07-8--	Endosulfan sulfate		
50-29-3----	4,4'-DDT		
72-43-5----	Methoxychlor		
53494-70-5-	Endrin ketone		
7421-36-3--	Endrin aldehyde		
5103-71-9--	alpha-Chlordane	<u>2.00</u>	<u>U</u>
5103-74-2--	gamma-Chlordane	<u>2.00</u>	<u>U</u>
8001-35-2--	Toxaphene	<u>40.0</u>	<u>U</u>
12674-11-2-	Aroclor-1016		
11104-28-2-	Aroclor-1221		
11141-16-5-	Aroclor-1232		
53469-21-9-	Aroclor-1242		
12672-29-6-	Aroclor-1248		
11097-69-1-	Aroclor-1254		
11096-82-5-	Aroclor-1260		

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A

GC Column(1): DB-608 ID: .53 (mm) GC Column(2): DB-5 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PB1K01	103 96.7 <sup>DL</sup>	116	74.4 72.6 <sup>DL</sup>	79.4			0
02	PSPK01	104	116	78.4	83.6			0
03	C6528MS	104	116	81.0	86.0			0
04	C6528MSD	94.4	95.9	81.2	85.3			0
05	PB1K01F	110	122	83.9	88.8			0
06	C6528	96.7	107	78.6	83.4			0
07	C6529	109	122	81.3	96.3			0
08	CLJ-DS-06	105	117	78.9	93.6			0
09	CLJ-DS-07	99.4	110	80.7	84.6			0
10	CLJ-DS-07D	107	119	77.7	82.2			0
11	CLJ-DS-08	101	114	83.9	90.2			0
12	CLJ-DS-09	105	116	83.1	87.2			0
13	PSPK01T	N/A	N/A	N/A	N/A			-
14	C6528MST	N/A	N/A	N/A	N/A			-
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY  
QC LIMITS

TCX = Tetrachloro-m-xylene (60-150)  
DCB = Decachlorobiphenyl (60-150)

- # Column to be used to flag recovery values
- \* Values outside of QC limits
- D Surrogate diluted out

PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No. NR

Matrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)					56-120
Heptachlor	16.3	0	15.3	91.1	40-131
Heptachlor Epoxide	18.2	0	19.0	104	30-130
Toxaphene	95.0	0	135	141*	30-130
Endrin	20.3	0	20.2	99.5	30-130
Methoxychlor					30-130
gamma-Chlordane	17.2	0	16.8	97.7	30-130
alpha-Chlordane	18.6	0	17.2	92.5	30-130
					30-130
					30-103
					30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
gamma-BHC (Lindane)					15 56-120
Heptachlor	16.3	14.7	90.5	4.00	20 40-131
Heptachlor Epoxide	18.2	18.1	99.5	4.85	20 30-130
Toxaphene					20 30-130
Endrin	20.3	19.5	96.1	3.74	20 30-130
Methoxychlor					20 30-130
gamma-Chlordane	17.2	17.2	100	2.14	20 30-130
alpha-Chlordane	18.6	17.4	93.5	1.16	20 30-130
					30-130
					30-130
					30-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 85 outside limits  
 Spike Recovery: 0 out of 116 outside limits

COMMENTS: \_\_\_\_\_

0247

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO

Lab Name: ASC Contract: NEESA PBLK01

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab Sample ID: NTP4018IP Lab File ID: <sup>DL</sup>AZ3827 NA

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) N Date Extracted: 3/2/94

Date Analyzed (1): 3/7/94 Date Analyzed (2): 3/8/94

Time Analyzed (1): 23:38 Time Analyzed (2): 00:22

Instrument ID (1): 1 Instrument ID (2): 2

GC Column (1): DB-608 ID: .53 (mm) GC Column (2): DB-5 ID: .53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK01	NTP4018IP	3-7-94	3-8-94
02	PSPK01	NTP4018IPS	3-8-94	
03	C6528MS	JM3557PS		
04	C6528MSD	JM3557PR		
05	PBLK01F	IM0000P		
06	C6528	JM3557P		
07	C6529	JM3558P		
08	CLI-DS-06	JM3559P		
09	CLI-DS-07	JM3560P		
10	CLI-DS-07D	JM3561P		
11	CLI-DS-08	JM3562P		
12	CLI-DS-09	JM3563P		
13	PSPK01T	NTP4018IPST		
14	C6528MST	JM3557PST	↓	↓
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

6D

## PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 2 Level (x low): low 100 mid 5.00 high 100  
 GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	12.65	12.64	12.65	12.65	12.60	12.70
Aldrin						
Heptachlor epoxide	15.13	15.13	15.13	15.13	15.06	15.20
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	18.02	18.02	18.02	18.02	17.97	18.09
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	16.36	16.36	16.36	16.36	16.29	16.43
gamma-Chlordane	15.91	15.91	15.91	15.91	15.84	15.98
Tetrachloro-m-xylene	7.94	7.90	7.90	7.91	7.86	7.96
Decachlorobiphenyl	32.37	32.38	32.38	32.38	32.28	32.48

\* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.



## PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

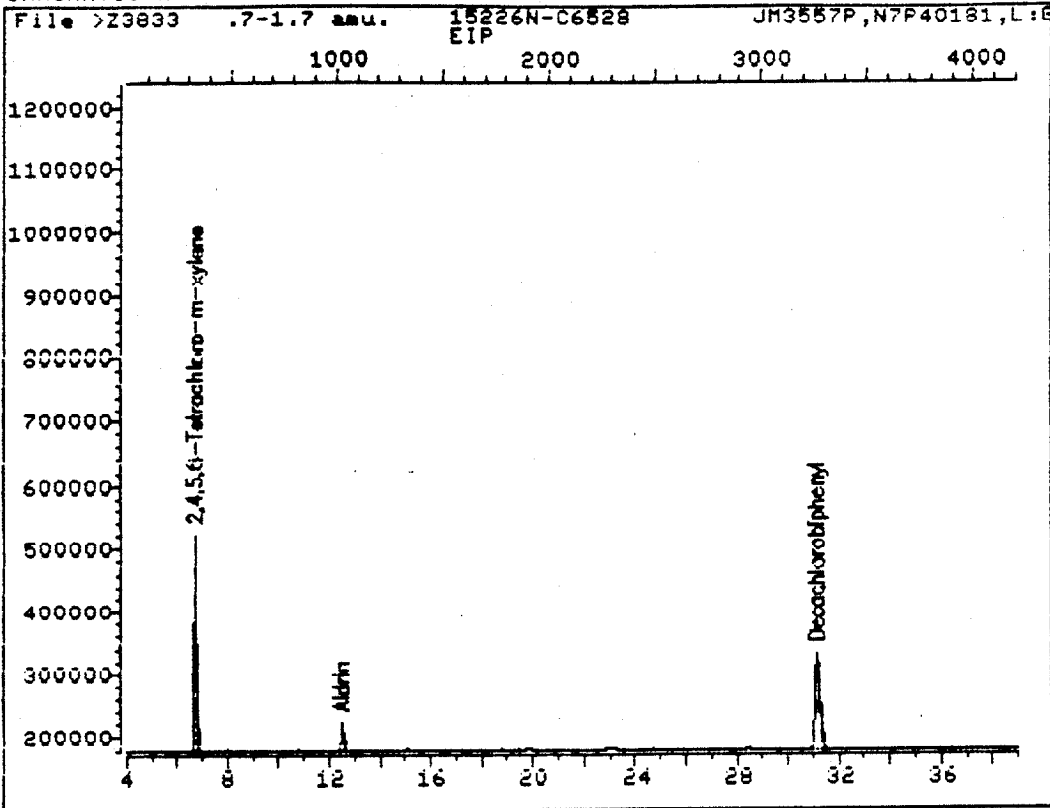
Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: 1 Level (x low): low 1.00 mid 5.00 high 100  
 GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

COMPOUND	RT OF STANDARDS			MEAN RT	RT WINDOW	
	LOW	MID	HIGH		FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	11.42	11.42	11.42	11.42	11.37	11.47
Aldrin						
Heptachlor epoxide	14.47	14.47	14.47	14.47	14.40	14.54
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	17.96	17.96	17.96	17.96	17.89	18.03
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	15.57	15.57	15.57	15.57	15.50	15.64
gamma-Chlordane	15.02	15.02	15.02	15.02	14.95	15.09
Tetrachloro-m-xylene	6.69	6.69	6.69	6.69	6.64	6.74
Decachlorobiphenyl	31.11	31.12	31.13	31.12	31.02	31.22

\* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are  $\pm 0.05$  minutes for all compounds that elute before Heptachlor epoxide,  $\pm 0.07$  minutes for all other compounds, except  $\pm 0.10$  minutes for Decachlorobiphenyl.

## CHROMATOGRAM



Data File: &gt;Z3833::D5

Quant Output File: ^Z3833::D5

Name: 15226N-C6528

Instrument ID: Z

Misc: JM3557P,N7P40181,L:G2,25,5:1,

Id File: IZP307::D5

Title: PESTICIDES DB-608 BY GC B2 (FRONT)

Last Calibration: 940308 07:26

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940308 07:36

Injected at: 940308 04:05

DL- 0251  
3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3833::D5  
Data File: >Z3833::D5  
Name: 15226N-C6528  
Misc: JM3557P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:36  
                  Injected at: 940308 04:05  
Dilution Factor: 1.00000  
Instrument ID: Z

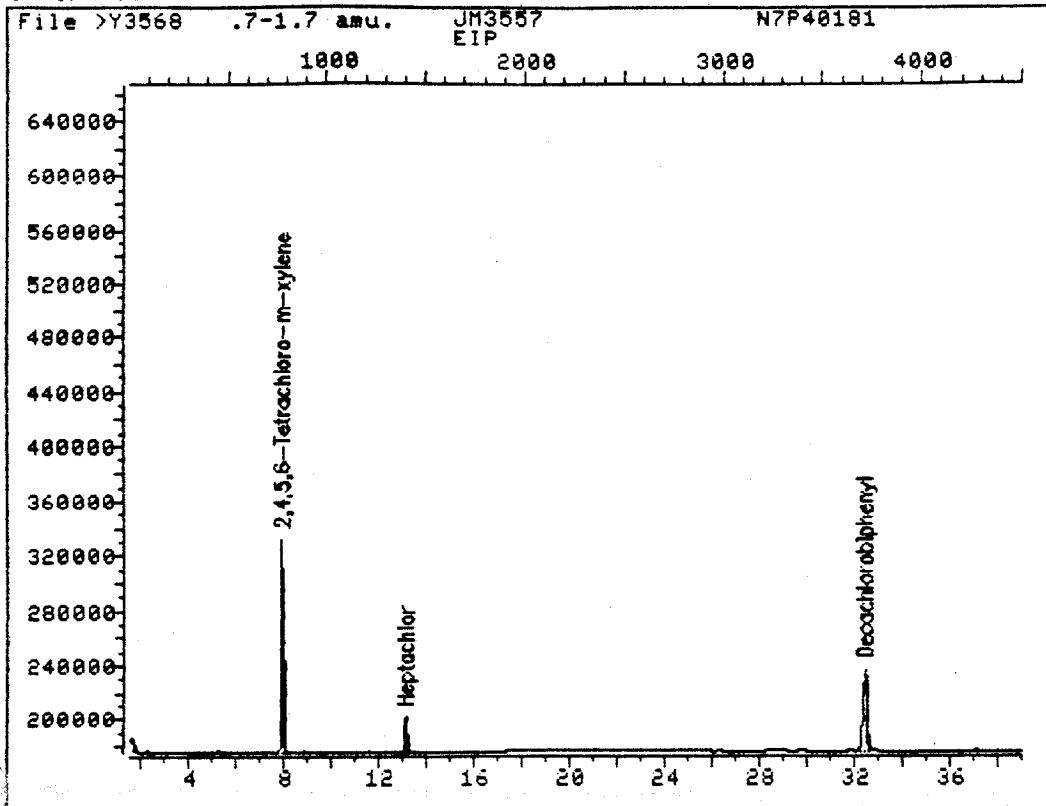
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC 82 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1602156	.501	ug/ml	100
8) #Aldrin	12.46	1016	241759	<del>.0736</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	31.13	3256	1922639	.455	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3568::D5  
Name: JM3557  
Misc: N7P40181

Quant Output File: ^Y3568::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qual Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:05  
Injected at: 940308 04:50

DL 0253  
3-19-94

QUANT REPORT

Operator ID: USER2  
Output File: ^Y3568::D5  
Data File: >Y3568::D5  
Name: JM3557  
Misc: N7P40181

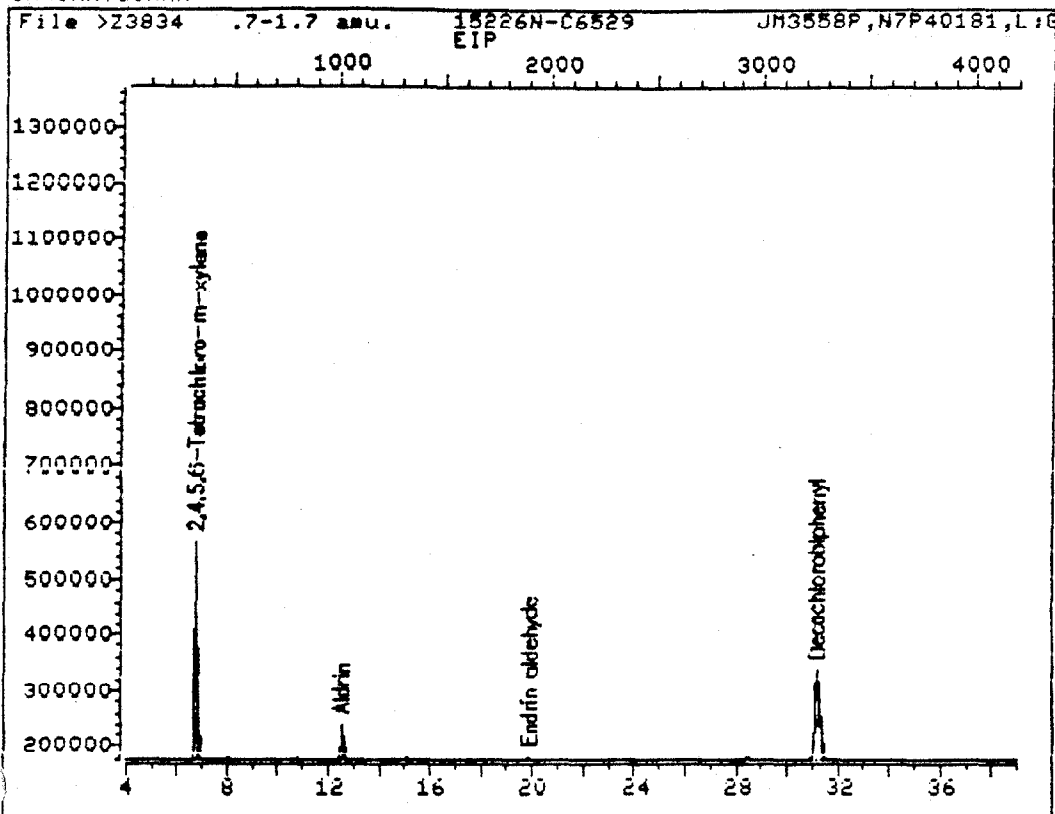
Quant Rev: 7      Quant Time: 940314 15:05  
                  Injected at: 940308 04:50  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.90	769	709795	.556	ug/ml	100
7) #Heptachlor	13.08	1391	136927	<del>.0925</del>	ug/ml	100
23) #Decachlorobiphenyl	32.38	3707	809873	.483	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;Z3834::D5

Quant Output File: ^Z3834::D5

Name: 15226N-C6529

Instrument ID: Z

Misc: JM3558P,N7P40181,L:G2,25,5:1,

Id File: IZP307::D5

Title: PESTICIDES DB-608 BY GC B2 (FRONT)

Last Calibration: 940308 07:26

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940308 07:38

Injected at: 940308 04:50

DL0255  
3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3834::D5  
Data File: >Z3834::D5  
Name: 15226N-C6529  
Misc: JM3558P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:38  
                  Injected at: 940308 04:50  
Dilution Factor: 1.00000  
Instrument ID: Z

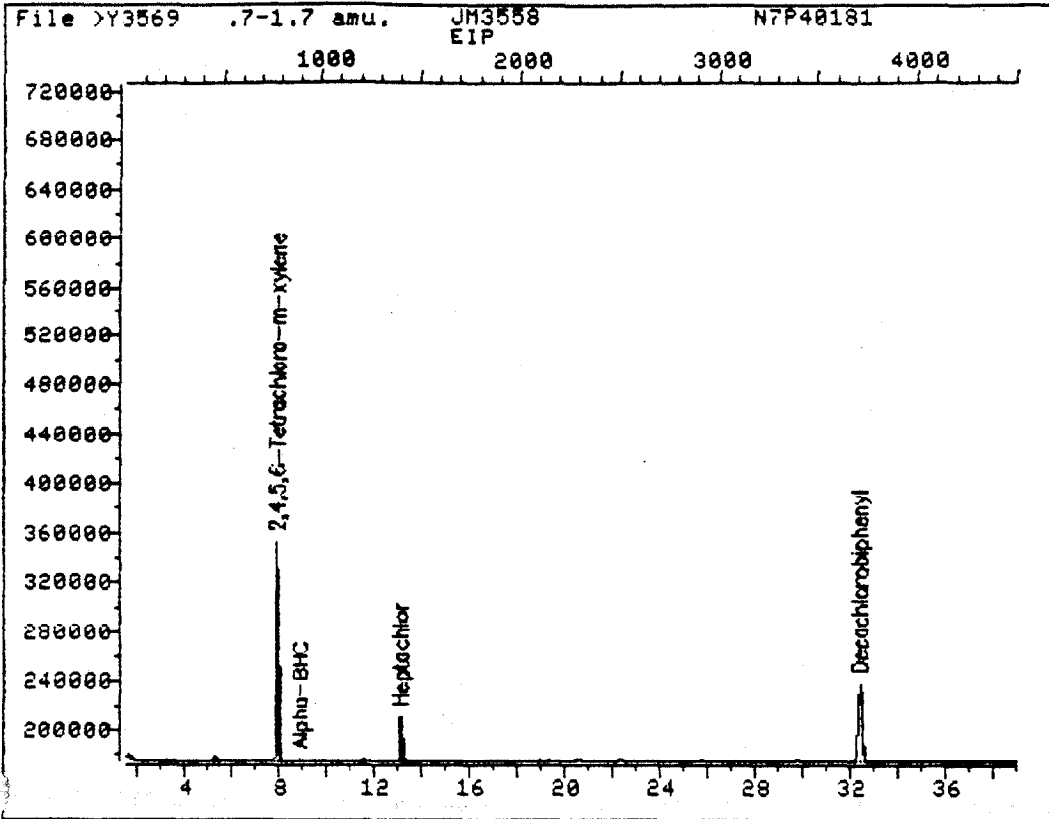
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1812397	.567	ug/ml	100
8) #Aldrin	12.46	1016	349408	<del>.106</del>	<del>ug/ml</del>	100
19) #Endrin aldehyde	19.84	1902	30239	<del>.0131</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	31.13	3256	1991537	.471	ug/ml	100

# Compound uses ESTD

CHROMATOGRAM



Data File: >Y3569::D5  
Name: JM3558  
Misc: N7P40181

Quant Output File: ^Y3569::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:06  
Injected at: 940308 05:34



Dh: 0257  
3-19-94

QUANT REPORT

Operator ID: USER2  
Output File: ^Y3569::D5  
Data File: >Y3569::D5  
Name: JM3558  
Misc: N7P40181

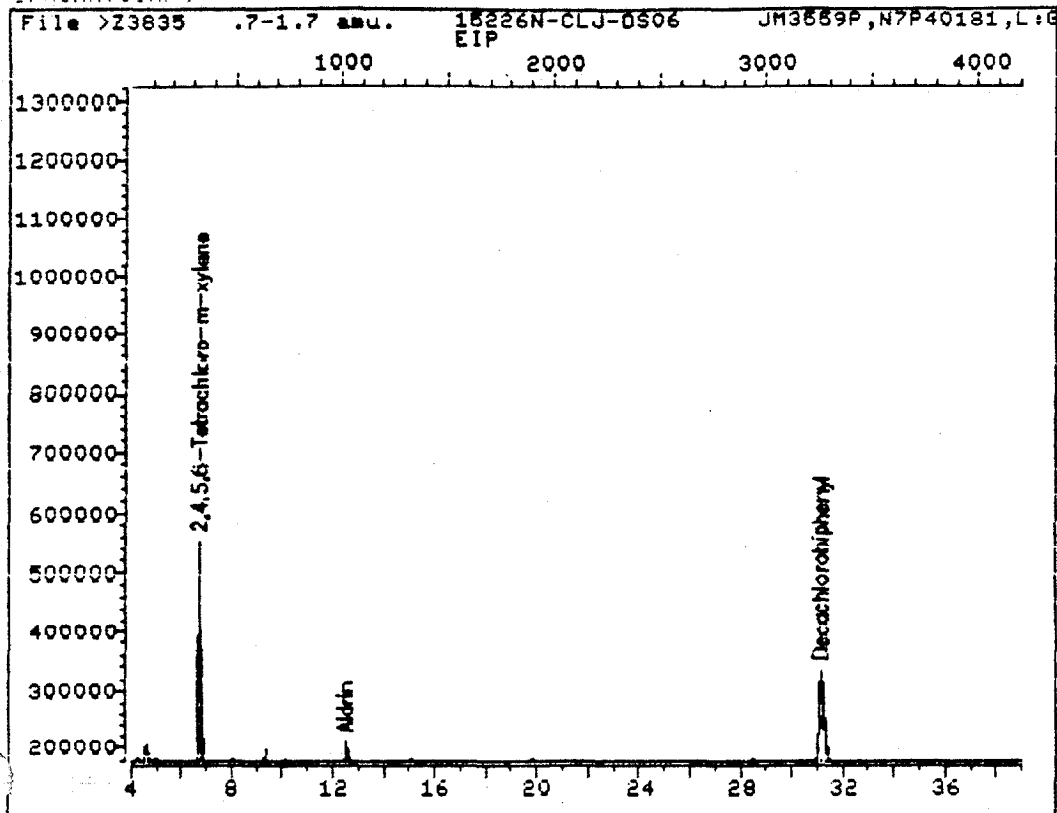
Quant Rev: 7      Quant Time: 940314 15:06  
                  Injected at: 940308 05:34  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.90	769	804004	.630	ug/ml	100
2) #Alpha-BHC	8.87	885	7648	.00445	ug/ml	100
7) #Heptachlor	13.08	1391	199135	.131	ug/ml	100
23) #Decachlorobiphenyl	32.38	3706	835503	.499	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Z3835::D5  
Name: 15226N-CLJ-DS06  
Misc: JM3559P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3835::D5  
Instrument ID: Z

Id File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940308 07:39  
Injected at: 940308 05:34

DL  
3-8-94

## QUANT REPORT

Page 1

Operator ID: USER2  
 Output File: ^Z3835::D5  
 Data File: >Z3835::D5  
 Name: 15226N-CLJ-DS06  
 Misc: JM3559P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:39  
                   Injected at: 940308 05:34  
 Dilution Factor: 1.00000  
 Instrument ID: Z

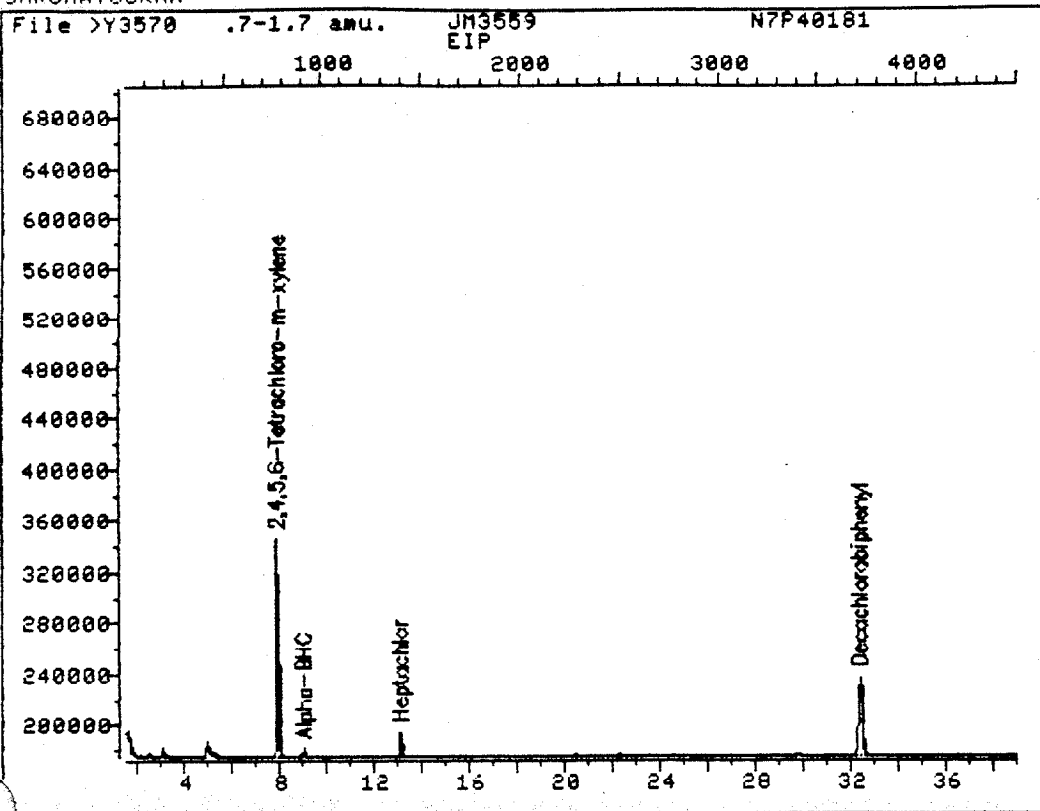
ID File: IZP307::D5  
 Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
 Last Calibration: 940308 07:26

Last Qcal Time: &lt;none&gt;

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1734413	.542	ug/ml	100
8) #Aldrin	12.47	1017	164895	<del>0502</del>	ug/ml	100
23) #Decachlorobiphenyl	31.12	3255	1929844	.457	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3570::D5  
Name: JM3559  
Misc: N7P40181

Quant Output File: ^Y3570::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qual Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:09  
Injected at: 940308 06:19

DL - 0261  
3-19-94

QUANT REPORT

Operator ID: USER2  
Output File: ^Y3570::D5  
Data File: >Y3570::D5  
Name: JM3559  
Misc: N7P40181

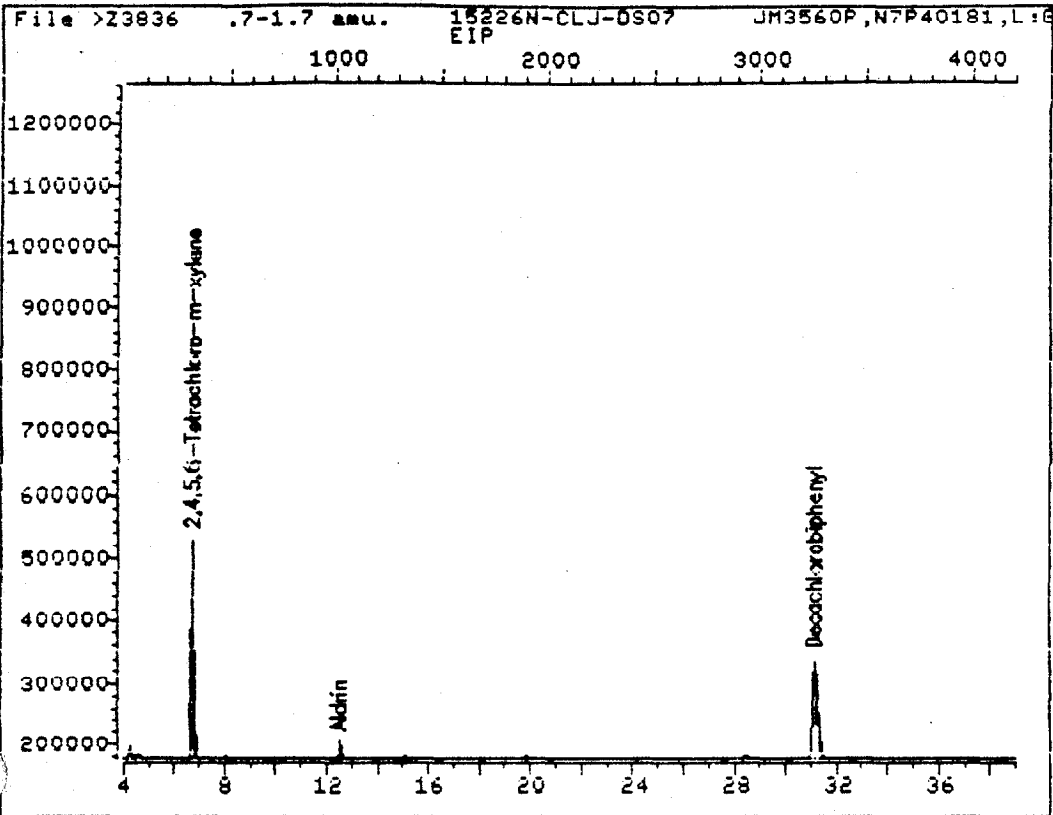
Quant Rev: 7      Quant Time: 940314 15:09  
                  Injected at: 940308 06:19  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.90	769	770755	.604	ug/ml	100
2) #Alpha-BHC	9.02	903	26107	<del>.0152</del>	ug/ml	100
7) #Heptachlor	13.08	1391	96287	<del>.0673</del>	ug/ml	100
23) #Decachlorobiphenyl	32.37	3705	812086	.485	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Z3836::D5  
Name: 15226N-CLJ-DS07  
Misc: JM3560P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3836::D5  
Instrument ID: 2

Id File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940308 07:40  
Injected at: 940308 06:19

DL - 0263  
3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3836::D5  
Data File: >Z3836::D5  
Name: 15226N-CLJ-DS07  
Misc: JM3560P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 07:40  
                  Injected at: 940308 06:19  
Dilution Factor: 1.00000  
Instrument ID: Z

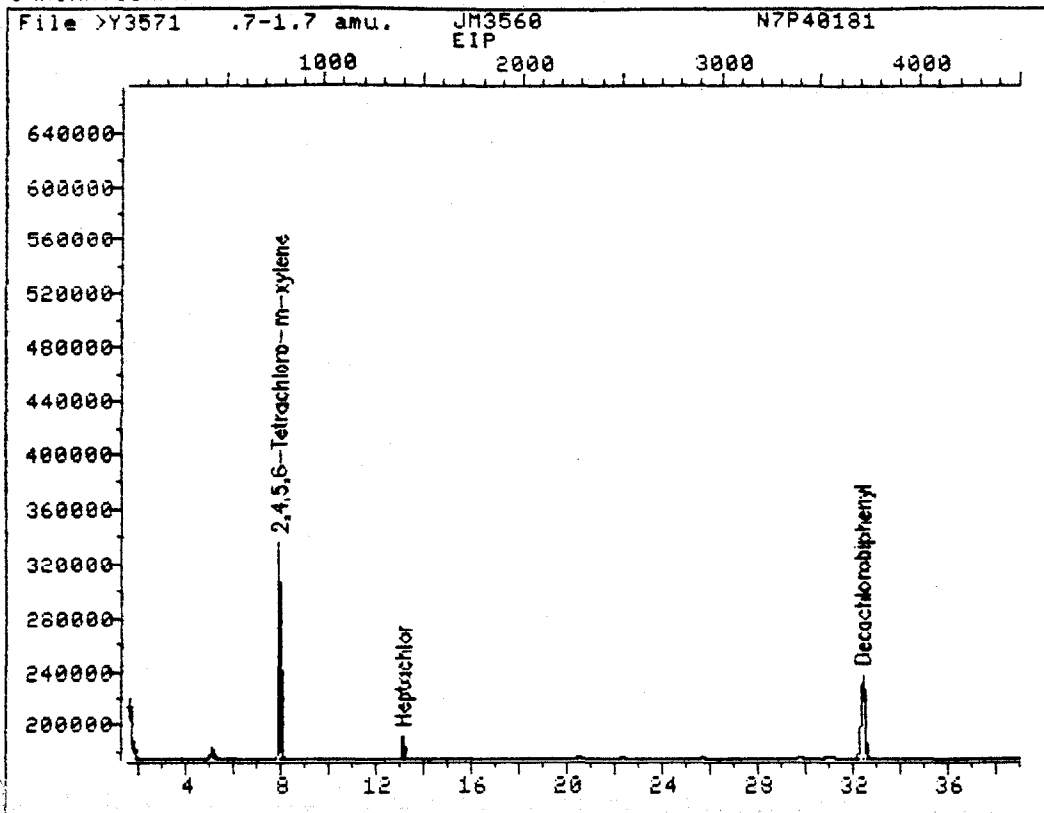
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qual Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1648141	.515	ug/ml	100
8) #Aldrin	12.47	1017	142431	<del>.8434</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	31.12	3255	1973649	.467	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3571::D5  
Name: JM3560  
Misc: N7P40181

Quant Output File: ^Y3571::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qual Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:10  
Injected at: 940308 07:04



D 0265  
3-19-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3571::D5  
Data File: >Y3571::D5  
Name: JM3560  
Misc: N7P40181

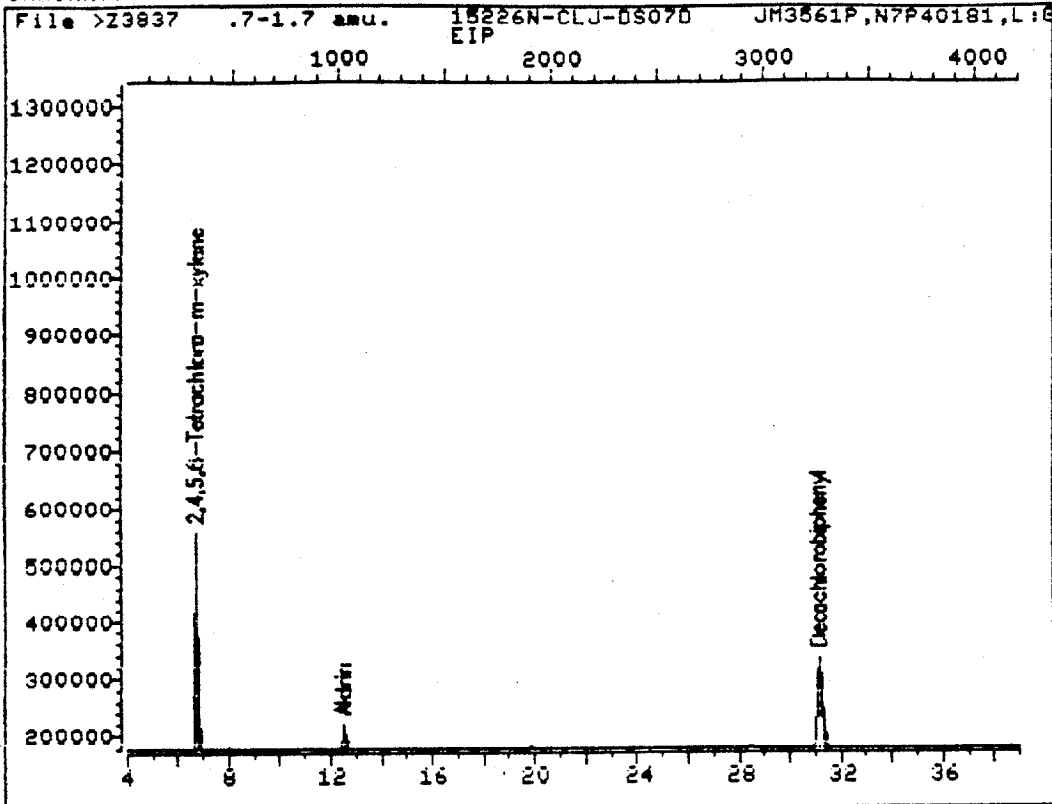
Quant Rev: 7      Quant Time: 940314 15:10  
                  Injected at: 940308 07:04  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, 82R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.90	769	726242	.569	ug/ml	100
7) #Heptachlor	13.08	1391	81087	<del>.8579</del>	ug/ml	100
23) #Decachlorobiphenyl	32.37	3705	821369	.490	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;Z3837::D5

Quant Output File: ^Z3837::D5

Name: 15226N-CLJ-DS07D

Instrument ID: Z

Misc: JM3561P,N7P40181,L:G2,25,5:1,

Id File: IZP307::D5

Title: PESTICIDES DB-608 BY GC B2 (FRONT)

Last Calibration: 940308 07:26

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940308 08:01

Injected at: 940308 07:04

DL - 0267  
3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3837::D5  
Data File: >Z3837::D5  
Name: 15226N-CLJ-DS07D  
Misc: JM3561P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 08:01  
                  Injected at: 940308 07:04  
Dilution Factor: 1.00000  
Instrument ID: Z

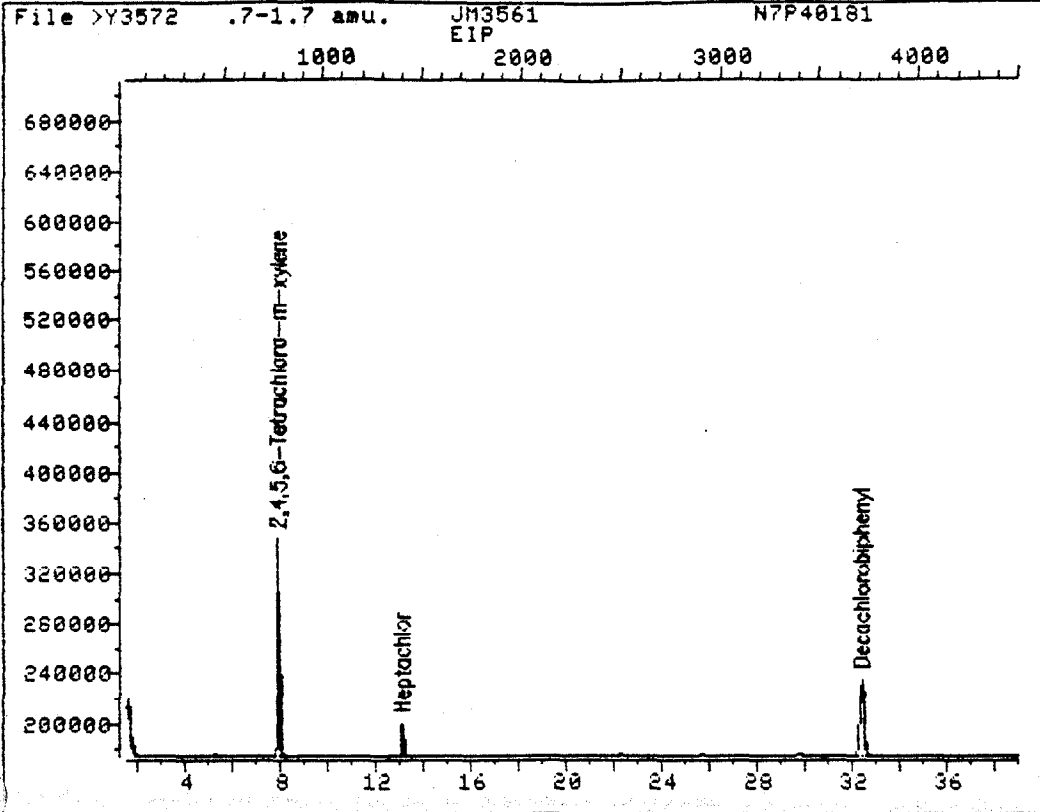
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.68	323	1765902	.552	ug/ml	100
8) #Aldrin	12.46	1016	222271	<del>0.677</del>	ug/ml	100
23) #Decachlorobiphenyl	31.12	3255	1900535	.450	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3572::D5  
Name: JM3561  
Misc: N7P40181

Quant Output File: ^Y3572::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:11  
Injected at: 940308 07:56

DL- 0269  
3-19-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3572::D5  
Data File: >Y3572::D5  
Name: JM3561  
Misc: N7P40181

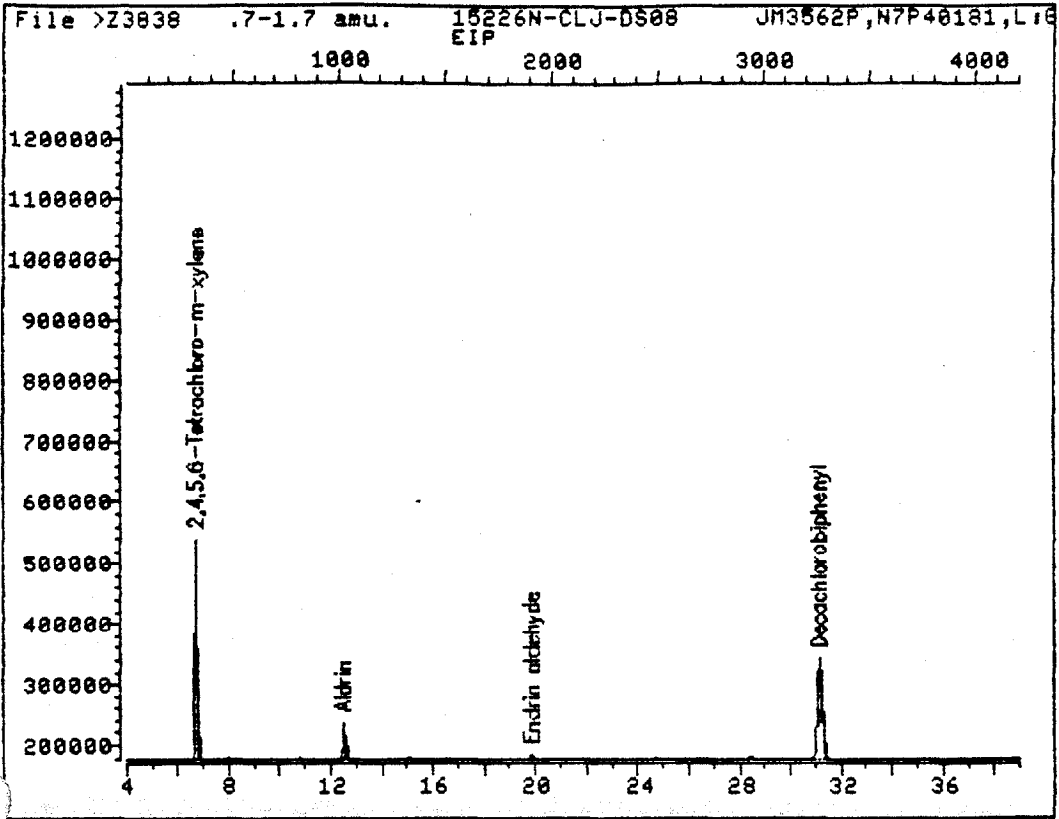
Quant Rev: 7      Quant Time: 940314 15:11  
                  Injected at: 940308 07:56  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.89	768	784482	.614	ug/ml	100
7) #Heptachlor	13.08	1390	129599	<del>.0888</del>	<del>ug/ml</del>	100
23) #Decachlorobiphenyl	32.37	3705	797265	.476	ug/ml	100

# Compound uses ESTD

CHROMATOGRAM



Data File: >Z3838::D5  
Name: 15226N-CLJ-DS08  
Misc: JM3562P,N7P40181,L:G2,25,5:1,

Quant Output File: ^Z3838::D5  
Instrument ID: Z

Id File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26 Last Qual Time: <none>

Operator ID: USER2  
Quant Time : 940308 08:36  
Injected at: 940308 07:56

DL 0271  
3-8-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3838::D5  
Data File: >Z3838::D5  
Name: 15226N-CLJ-DS08  
Misc: JM3562P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 08:36  
                  Injected at: 940308 07:56  
Dilution Factor: 1.00000  
Instrument ID: Z

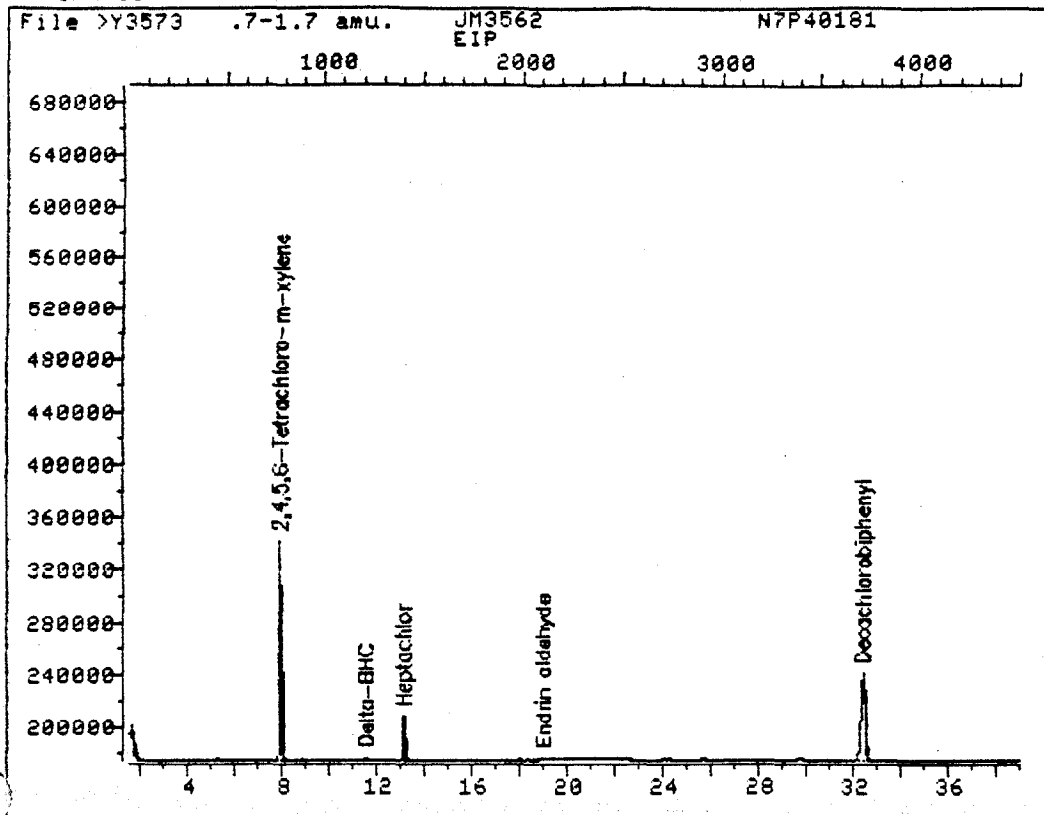
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.69	324	1679021	.525	ug/ml	100
8) #Aldrin	12.46	1016	314335	<del>.0957</del>	<del>ug/ml</del>	100
19) #Endrin aldehyde	19.84	1902	26367	.0115	ug/ml	100
23) #Decachlorobiphenyl	31.12	3255	2052973	.486	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: >Y3573::D5  
Name: JM3562  
Misc: N7P40181

Quant Output File: ^Y3573::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:12  
Injected at: 940308 08:41



DL 0273  
3-19-94

QUANT REPORT

Operator ID: USER2  
Output File: ^Y3573::D5  
Data File: >Y3573::D5  
Name: JM3562  
Misc: N7P40181

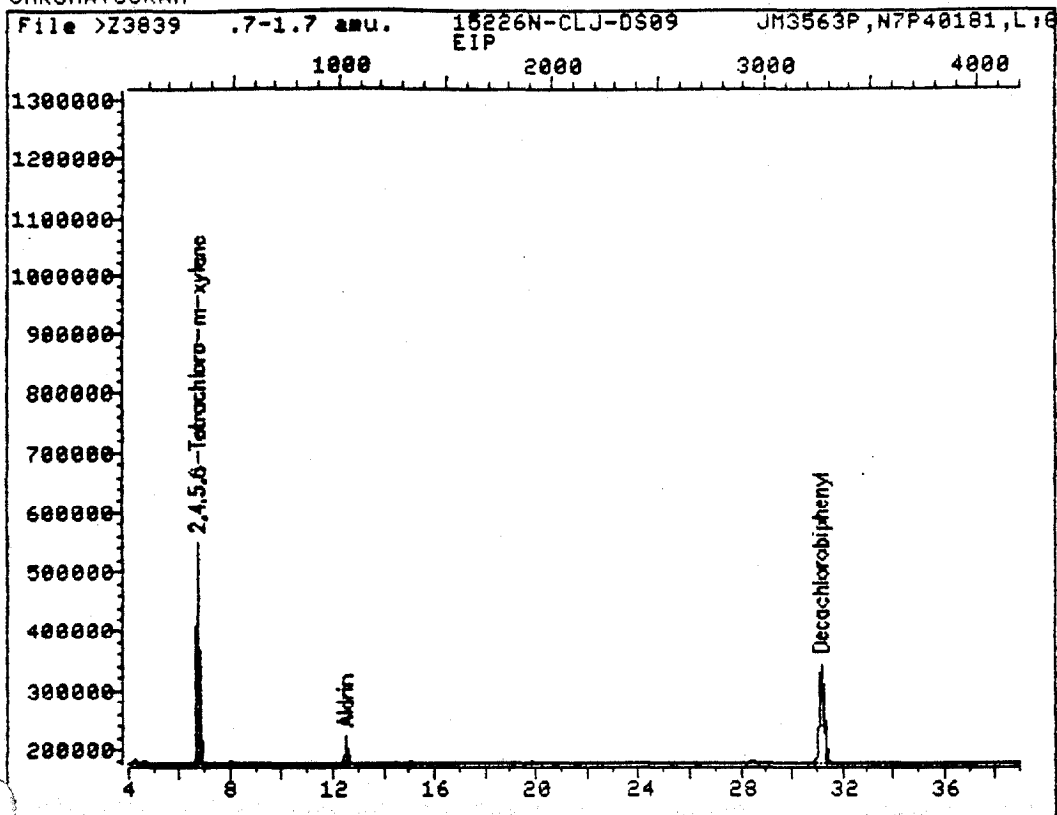
Quant Rev: 7      Quant Time: 940314 15:12  
                  Injected at: 940308 08:41  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.90	769	756226	.592	ug/ml	100
6) #Delta-BHC	11.51	1202	6176	<del>.0311</del>	ug/ml	100
7) #Heptachlor	13.08	1390	183295	.121	ug/ml	100
18) #Endrin aldehyde	18.95	2095	6336	<del>.00544</del>	ug/ml	100
23) #Decachlorobiphenyl	32.36	3704	873937	.522	ug/ml	100

# Compound uses ESTD

## CHROMATOGRAM



Data File: &gt;Z3839::D5

Quant Output File: ^Z3839::D5

Name: 15226N-CLJ-DS09

Instrument ID: Z

Misc: JM3563P,N7P40181,L:G2,25,5:1,

Id File: IZP307::D5

Title: PESTICIDES DB-608 BY GC B2 (FRONT)

Last Calibration: 940308 07:26

Last Qcal Time: &lt;none&gt;

Operator ID: USER2

Quant Time : 940308 09:21

Injected at: 940308 08:41

DL - 0275

35-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Z3839::D5  
Data File: >Z3839::D5  
Name: 15226N-CLJ-DS09  
Misc: JM3563P,N7P40181,L:G2,25,5:1,

Quant Rev: 7      Quant Time: 940308 09:21  
                  Injected at: 940308 08:41  
Dilution Factor: 1.00000  
Instrument ID: Z

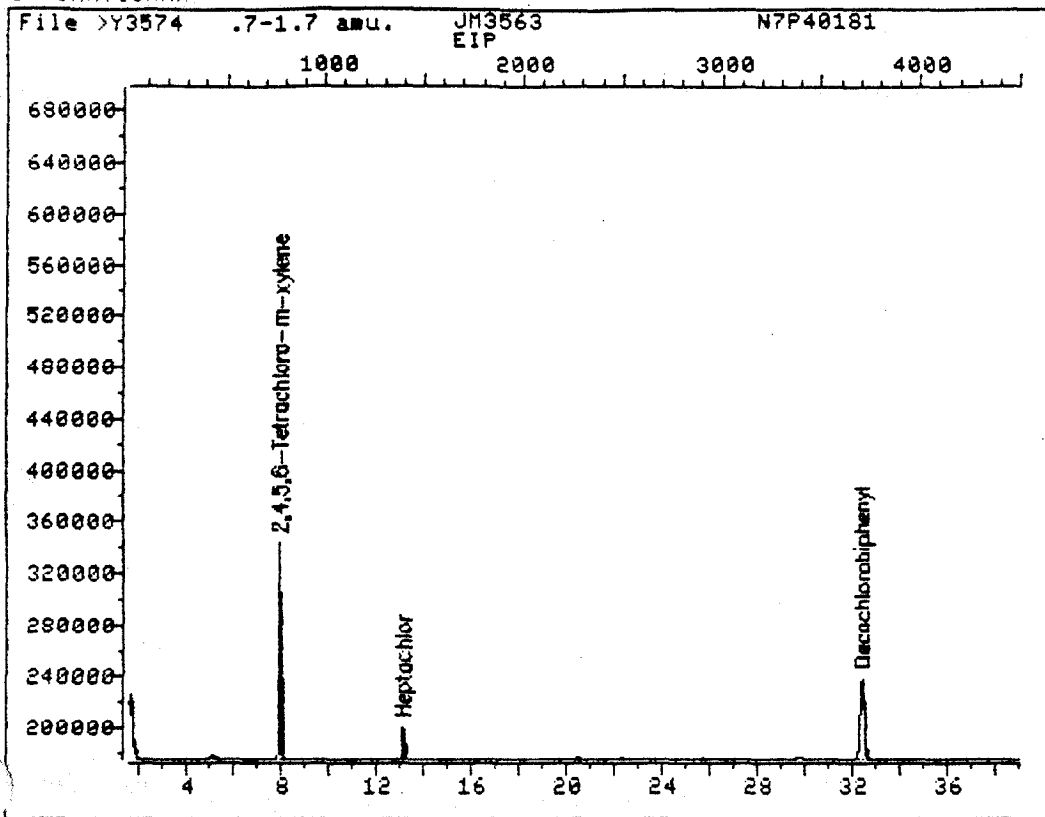
ID File: IZP307::D5  
Title: PESTICIDES DB-608 BY GC B2 (FRONT)  
Last Calibration: 940308 07:26

Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	6.68	323	1742989	.545	ug/ml	100
8) #Aldrin	12.46	1016	224287	<del>0.603</del>	ug/ml	100
23) #Decachlorobiphenyl	31.11	3254	2033745	.481	ug/ml	100

# Compound uses ESTD

CHROMATOGRAM



Data File: >Y3574::D5  
Name: JM3563  
Misc: N7P40181

Quant Output File: ^Y3574::D5  
Instrument ID: Y

Id File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Operator ID: USER2  
Quant Time : 940314 15:13  
Injected at: 940308 09:25

DL0277

3-19-94

QUANT REPORT

Page 1

Operator ID: USER2  
Output File: ^Y3574::D5  
Data File: >Y3574::D5  
Name: JM3563  
Misc: N7P40181

Quant Rev: 7      Quant Time: 940314 15:13  
                  Injected at: 940308 09:25  
Dilution Factor: 1.00000  
Instrument ID: Y

ID File: IYP307::D5  
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R  
Last Calibration: 940308 07:48      Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) #2,4,5,6-Tetrachloro-m-xylene	7.89	768	767939	.601	ug/ml	100
7) #Heptachlor	13.08	1390	130847	<del>0.000</del>	ug/ml	100
23) #Decachlorobiphenyl	32.34	3702	846353	.505	ug/ml	100

# Compound uses ESTD

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Analytical Services Corp

Contract: Neosa

Lab Code: NA Case #: NA

SAS #: NA SDG #: NA

DW No.: NA

**EPA Sample No.**

**Lab Sample ID.**

C6528  
C6529  
CLJ-DS-06  
CLJ-DS-07  
CLJ-DS-07D  
CLJ-DS-08  
CLJ-DS-09  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

JM3557  
JM3558  
JM3559  
JM3560  
JM3561  
JM3562  
JM3563  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Were ICP interelement corrections applied?

Yes/NO YES

Were ICP background corrections applied?

Yes/NO YES

If YES - were raw data generated before application of background corrections?

Yes/NO NO

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Signature: J. Hnatow

Name: Joseph Hnatow

Date: 5/26/94

Title: Operations Manager

# INORGANIC ANALYSIS DATA SHEET (1) . 0279

Lab Name: *Analytical Services Corp* Contract: *Neesa* EPA SAMPLE #: *C6528*  
 Lab Code: *NA* Case #: *NA* SAS #: *NA* SDG #: *NA*  
 Matrix: (soil/water) *WATER* Level: (low/med) *LOW* Lab Sample ID: *JM3557*  
 % Solids: \_\_\_\_\_ Date Received: *02/18/94*

Concentration Units (ug/L or mg/kg dry weight): *ug/L*

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	<i>1.4</i>	<i>U</i>		<i>F</i>
7440-39-3	Barium	<i>1260</i>			<i>P</i>
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	<i>1.1</i>	<i>U</i>		<i>P</i>
7440-47-3	Chromium	<i>4.2</i>	<i>U</i>		<i>P</i>
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	<i>2.0</i>	<i>U</i>		<i>F</i>
7439-96-5	Manganese				
7439-97-6	Mercury	<i>0.14</i>	<i>U</i>		<i>LV</i>
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	<i>3.3</i>	<i>B</i>		<i>F</i>
7440-22-4	Silver	<i>8.0</i>	<i>U</i>		<i>P</i>
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_

Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) 0280

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: C6529  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3558  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	928			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CU
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.3	U		F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_



# INORGANIC ANALYSIS DATA SHEET (1) 0281

Lab Name: Analytical Services Corp Contract: Nersa EPA SAMPLE #: CLJ-DS-06  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3559  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	536			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	2.3	B		P
7440-47-3	Chromium	4.3	B		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	97.0			F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14			CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.9	B		F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) - 0282

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-DS-07  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3560  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	1460			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.3	B		F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) - 0283

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CL1-DS-07D  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3561  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	1550			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	2.3	B		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.4	B		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.9	B		F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) - 0284

**Lab Name:** Analytical Services Corp    **Contract:** Neesa    **EPA SAMPLE #:** CLF-D5-08  
**Lab Code:** NA    **Case #:** NA    **SAS #:** NA    **SDG #:** NA  
**Matrix:** (soil/water) WATER    **Level:** (low/med) LOW    **Lab Sample ID:** JM3562  
**% Solids:** \_\_\_\_\_    **Date Received:** 02/18/94

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	1100			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.1	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.0	U		F
7439-96-5	Manganese				
7439-97-6	Mercury	0.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	2.6	B		F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

**Color Before:** \_\_\_\_\_    **Clarity Before:** \_\_\_\_\_    **Texture:** \_\_\_\_\_  
**Color After:** \_\_\_\_\_    **Clarity After:** \_\_\_\_\_    **Artifacts:** \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

# INORGANIC ANALYSIS DATA SHEET (1) - 0285

Lab Name: Analytical Services Corp Contract: Neesa EPA SAMPLE #: CLJ-DS-09  
 Lab Code: NA Case #: NA SAS #: NA SDG #: NA  
 Matrix: (soil/water) WATER Level: (low/med) LOW Lab Sample ID: JM3563  
 % Solids: \_\_\_\_\_ Date Received: 02/18/94

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	1.4	U		F
7440-39-3	Barium	212			P
7440-41-7	Beryllium				
7440-42-8	Boron				
7440-43-9	Cadmium	1.0	U		P
7440-47-3	Chromium	4.2	U		P
7440-48-4	Cobalt				
7439-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.1	B		F
7439-96-5	Manganese				
7439-97-6	Mercury	.14	U		CV
7439-98-7	Molybdenum				
7440-02-0	Nickel				
7782-49-2	Selenium	1.6	B		F
7440-22-4	Silver	8.0	U		P
7440-24-6	Strontium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				

Color Before: \_\_\_\_\_ Clarity Before: \_\_\_\_\_ Texture: \_\_\_\_\_  
 Color After: \_\_\_\_\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0286

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic	32.8	34.9	106	20.5	20.9	102	19.3	94.1	F
Barium	9240	9570	104	4520	4840	107	4820	107	P
Beryllium									
Boron									
Cadmium	2530	2570	101	1250	1280	102	1280	102	P
Chromium	973	992	102	483	495	102	486	101	P
Cobalt									
Copper									
Iron									
Lead	35.3	34.3	97.2	21.2	21.9	103	21.4	101	F
Manganese									
Mercury	5.0	4.9	98.0	5.0	4.7	94.0	4.7	94.0	CV
Molybdenum									
Nickel									
Selenium									
Silver	1260	1290	103	603	617	102	615	102	P
Strontium									
Thallium									
Vanadium									
Zinc									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0287

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: NIST

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				21.2	21.6	102			F
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

# INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

0288

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA

Case #: NA

SAS #: NA

SDG #: NA

Initial Calibration Source: APG

Continuing Calibration Source: APG

Concentration Units: ug/L

ANALYTE	INITIAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	39.1	42.9	110	23.5	25.6	109	23.6	100	F
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115



# CRDL STANDARD FOR AA AND ICP (2B)

0289

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

AA CRDL Standard Source: *Ventures*

ICP CRDL Standard Source: *Ventures*

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	Initial True	Initial Found	Initial %R(1)	Final Found	Final %R(1)
Aluminum								
Antimony								
Arsenic	<i>10.0</i>	<i>10.7</i>	<i>107</i>					
Barium				<i>402</i>	<i>399</i>	<i>99.2</i>	<i>396</i>	<i>98.4</i>
Beryllium								
Boron								
Cadmium				<i>10.8</i>	<i>10.5</i>	<i>97.5</i>	<i>10.5</i>	<i>96.9</i>
Chromium				<i>21.0</i>	<i>20.3</i>	<i>96.6</i>	<i>21.9</i>	<i>104</i>
Cobalt								
Copper								
Iron								
Lead	<i>3.0</i>	<i>2.0</i>	<i>66.7</i>					
Manganese								
Mercury	<i>0.2</i>	<i>0.24</i>	<i>122</i>					
Molybdenum								
Nickel								
Selenium								
Silver				<i>22.0</i>	<i>21.2</i>	<i>96.5</i>	<i>19.6</i>	<i>89.1</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# CRDL STANDARD FOR AA AND ICP (2B)

0000

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA* Case #: *NA*

SAS #: *NA*

SDG #: *NA*

AA CRDL Standard Source: *NIST*

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

ANALYTE	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	Initial True	Initial Found	Initial %R(1)	Final Found	Final %R(1)
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	<i>5.1</i>	<i>6.0</i>	<i>118</i>					
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

# BLANKS (3)

0291

Lab Name: *Analytical Services Corp*

Contract: *Nees A*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

Prep Blank Matrix: (soil/water) *WATER*

Prep Blank Concentration Units: (ug/L or mg/kg) *ug/L*

ANALYTE	INITIAL CALIBRATION BLANK (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											
Antimony											
Arsenic	-1.4	U	-0.1	U	0.6	U			-1.2	U	F
Barium	2.5	B	1.0	B	1.7	B			2.2	B	P
Beryllium											
Boron											
Cadmium	0.99	U	0.4	U	0.8	U			3.0	B	P
Chromium	0.09	U	-0.4	U	-0.6	U			-2.0	U	P
Cobalt											
Copper											
Iron											
Lead	-1.3	U	-1.6	U	-1.1	U	-1.3	U	-1.6	U	F
Manganese											
Mercury	0.05	U	0.05	U	0.03	U	0.05	U	-0.01	U	CV
Molybdenum											
Nickel											
Selenium	1.5	B	1.2	U	0.3	U	0.05	U	0.1	U	F
Silver	φ	U	0.2	U	-1.1	U			-4.6	U	P
Strontium											
Thallium											
Vanadium											
Zinc											

# ICP INTERFERENCE CHECK SAMPLE (4) - 0292

Lab Name: *Analytical Services Corp*

Contract: *Neesa*

Lab Code: *NA*

Case #: *NA*

SAS #: *NA*

SDG #: *NA*

ICP ID #: *61*

ISC Source: *Venture*

Concentration Units: ug/L

ANALYTE	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium	<i>φ</i>	<i>471</i>	<i>2.2</i>	<i>476</i>	<i>101</i>	<i>2.1</i>	<i>471</i>	<i>100</i>
Beryllium								
Boron								
Cadmium	<i>φ</i>	<i>874</i>	<i>-9.6</i>	<i>895</i>	<i>102</i>	<i>-9.3</i>	<i>882</i>	<i>101</i>
Chromium	<i>φ</i>	<i>462</i>	<i>-6.4</i>	<i>467</i>	<i>101</i>	<i>-5.3</i>	<i>459</i>	<i>99.5</i>
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver	<i>φ</i>	<i>923</i>	<i>-5.1</i>	<i>937</i>	<i>101</i>	<i>-6.5</i>	<i>925</i>	<i>100</i>
Strontium								
Thallium								
Vanadium								
Zinc								

# SPIKE SAMPLE RECOVERY (5A)

029:

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CLS-DS-  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: NA  
 Matrix: (soil/water) WATER      Level (low/med): LOW      % Solids for Sample:       

Concentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)		SAMPLE RESULT (SR)		SPIKE ADDED (SA)	%R	Q	M
			C		C				
Aluminum									
Antimony									
Arsenic	75-125	92.1		72.1		20.0	100		F
Barium	75-125	9280		212		10400	87.4		P
Beryllium									
Boron									
Cadmium	75-125	923		1.0	U	1050	87.7		P
Chromium	75-125	4810		1.2	U	5430	88.6		P
Cobalt									
Copper									
Iron									
Lead	75-125	23.8		2.1	B	20.0	109		F
Manganese									
Mercury	75-125	1.9		.05	U	2.0	95		CV
Molybdenum									
Nickel									
Selenium	75-125	17.6		1.6	B	20.0	80		F
Silver	75-125	95.6		-5.3	U	93.5	102		P
Strontium									
Thallium									
Vanadium									
Zinc									

COMMENTS: \_\_\_\_\_

# POST DIGEST SPIKE SAMPLE RECOVERY (5B) 0294

Lab Name: *Analytical Services Corp*      Contract: *Neesa*      EPA Sample #: *CLJ-05-0*  
 Lab Code: *NA*      Case #: *NA*      SAS #: *NA*      SDG #: *NA*  
 IC Matrix: (soil/water) *WATER*      Level (low/med): *LDW*

Concentration Units: ug/L

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR) C	SAMPLE RESULT (SR) C	SPIKE ADDED (SA)	%R	Q	M
Aluminum							
Antimony							
Arsenic							
Barium	<i>75-125</i>	<i>11200</i>	<i>1100</i>	<i>10400</i>	<i>97.1</i>		<i>P</i>
Beryllium							
Boron							
Cadmium	<i>75-125</i>	<i>1020</i>	<i>0.1</i>	<i>4 1050</i>	<i>97.1</i>		<i>P</i>
Chromium	<i>75-125</i>	<i>5320</i>	<i>3.0</i>	<i>4 5430</i>	<i>97.9</i>		<i>P</i>
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	<i>75-125</i>	<i>1030</i>	<i>3.7</i>	<i>4 93.5</i>	<i>110.2</i>		<i>P</i>
Srontium							
Thallium							
Vanadium							
Zinc							

COMMENTS: \_\_\_\_\_

# DUPLICATES (6)

0295

Lab Name: Analytical Services Corp      Contract: Neesa      EPA Sample #: CL5-DS-  
 Lab Code: NA      Case #: NA      SAS #: NA      SDG #: NA  
 Matrix: (soil/water) WATER      % Solids for Sample:       
 Level (low/med): LOW      % Solids for Duplicate:     

Concentration Units (ug/L or mg/kg dry weight): ug/L

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)		RPD	Q	M
				C				
Aluminum								
Antimony								
Arsenic	20	72.1		72.0		0.1		F
Barium	20	212		212		φ		P
Beryllium								
Boron								
Cadmium		1.0	U	0.8	U			P
Chromium		1.2	U	2.4	U			P
Cobalt								
Copper								
Iron								
Lead		2.1	B	2.4	B	13.3		F
Manganese								
Mercury		.05	U	.08	U			CV
Molybdenum								
Nickel								
Selenium		1.6	B	0.1	U			F
Silver		-5.3	U	-2.3	U			P
Strontium								
Thallium								
Vanadium								
Zinc								

# LABORATORY CONTROL SAMPLE (7)

029

Lab Name: Analytical Services Corp

Contract: Neesa

Lab Code: NA Case #: NA

SAS #: NA SDG #: NA

Liquid LCS Source: \_\_\_\_\_

Aqueous LCS Source: Ventures

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	20.0	20.3	102					
Barium	10400	9860	95.1					
Beryllium								
Boron								
Cadmium	1050	965	91.5					
Chromium	5430	5080	93.6					
Cobalt								
Copper								
Iron								
Lead	20.0	21.1	106					
Manganese								
Mercury	2.0	1.9	95					
Molybdenum								
Nickel								
Selenium	20.0	21.6	108					
Silver	93.5	95.0	102					
Strontium								
Thallium								
Vanadium								
Zinc								



ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA

SBLK 1

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: NTC40179C

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8014

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
95-48-7----	2-Methylphenol		0.100	U
106-44-5----	4-Methylphenol		0.100	U
67-72-1----	Hexachloroethane		0.100	U
98-95-3----	Nitrobenzene		0.100	U
87-68-3----	Hexachlorobutadiene		0.100	U
88-06-2----	2,4,6-Trichlorophenol		0.100	U
95-95-4----	2,4,5-Trichlorophenol		0.100	U
121-14-2---	2,4-Dinitrotoluene		0.100	U
118-74-1---	Hexachlorobenzene		0.100	U
87-86-5----	Pentachlorophenol		0.100	U
110-86-1---	Pyridine		0.100	U
72-43-5----	Methoxychlor		0.100	U
58-89-9----	gamma-BHC (Lindane)		0.100	U

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0298**

Lab Name: ASC Contract: NEESA SBIK185  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: N7C40179CS  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8015  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u>
95-48-7----	2-Methylphenol		<u>23.9</u>
106-44-5---	4-Methylphenol		<u>57.4</u>
67-72-1----	Hexachloroethane		<u>57.8</u>
98-95-3----	Nitrobenzene		<u>45.2</u>
87-68-3----	Hexachlorobutadiene		<u>20.2</u>
88-06-2----	2,4,6-Trichlorophenol		<u>77.5</u>
95-95-4----	2,4,5-Trichlorophenol		<u>67.6</u>
121-14-2---	2,4-Dinitrotoluene		<u>21.6</u>
118-74-1---	Hexachlorobenzene		<u>28.7</u>
87-86-5----	Pentachlorophenol		<u>139</u>
110-86-1---	Pyridine		<u>54.3</u>
72-43-5----	Methoxychlor		<u>85.6</u>
58-89-9----	gamma-BHC (Lindane)		<u>26.5</u>

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0299

Lab Name: ASC Contract: NEESA C 6528 MS

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3557

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8016

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
95-48-7----	2-Methylphenol		25.0	
106-44-5----	4-Methylphenol		58.6	
67-72-1----	Hexachloroethane		23.7	
98-95-3----	Nitrobenzene		42.9	
87-68-3----	Hexachlorobutadiene		14.9	
88-06-2----	2,4,6-Trichlorophenol		82.3	
95-95-4----	2,4,5-Trichlorophenol		75.3	
121-14-2----	2,4-Dinitrotoluene		23.0	
118-74-1----	Hexachlorobenzene		23.7	
87-86-5----	Pentachlorophenol		174	
110-86-1----	Pyridine		54.5	
72-43-5----	Methoxychlor		85.5	
58-89-9----	gamma-BHC (Lindane)		27.0	

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0300**

Lab Name: ASC Contract: NEESA C6528MSD  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3557  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8017  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
95-48-7----	2-Methylphenol		9.34
106-44-5---	4-Methylphenol		16.8
67-72-1----	Hexachloroethane		23.0
98-95-3----	Nitrobenzene		40.8
87-68-3----	Hexachlorobutadiene		14.0
88-06-2----	2,4,6-Trichlorophenol		0
95-95-4----	2,4,5-Trichlorophenol		0
121-14-2---	2,4-Dinitrotoluene		21.2
118-74-1---	Hexachlorobenzene		23.0
87-86-5----	Pentachlorophenol		0
110-86-1---	Pyridine		48.4
72-43-5----	Methoxychlor		82.1
58-89-9----	gamma-BHC (Lindane)		26.3

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0301**

Lab Name: ASC Contract: NEESA C 6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3557

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8018

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 400 (uL) Date Analyzed: 03/07/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
95-48-7----	2-Methylphenol	0.100	U
106-44-5---	4-Methylphenol	0.100	U
67-72-1----	Hexachloroethane	0.100	U
98-95-3----	Nitrobenzene	0.100	U
87-68-3----	Hexachlorobutadiene	0.100	U
88-06-2----	2,4,6-Trichlorophenol	0.100	U
95-95-4----	2,4,5-Trichlorophenol	0.100	U
121-14-2---	2,4-Dinitrotoluene	0.100	U
118-74-1---	Hexachlorobenzene	0.100	U
87-86-5----	Pentachlorophenol	0.100	U
110-86-1---	Pyridine	0.100	U
72-43-5----	Methoxychlor	0.100	U
58-89-9----	gamma-BHC (Lindane)	0.100	U

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0302**

Lab Name: ASC Contract: NEESA C6529  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3558  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8019  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
95-48-7----	2-Methylphenol	0.100	u
106-44-5---	4-Methylphenol	0.100	u
67-72-1----	Hexachloroethane	0.100	u
98-95-3----	Nitrobenzene	0.100	u
87-68-3----	Hexachlorobutadiene	0.100	u
88-06-2----	2,4,6-Trichlorophenol	0.100	u
95-95-4----	2,4,5-Trichlorophenol	0.100	u
121-14-2---	2,4-Dinitrotoluene	0.100	u
118-74-1---	Hexachlorobenzene	0.100	u
87-86-5----	Pentachlorophenol	0.100	u
110-86-1---	Pyridine	0.100	u
72-43-5----	Methoxychlor	0.100	u
58-89-9----	gamma-BHC (Lindane)	0.100	u

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **0303**

Lab Name: ASC Contract: NEESA CLJ-DS-06

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3559

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8020

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/07/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5----	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2---	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1---	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1---	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>

## ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-07

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3560

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8021

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/08/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5---	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2---	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1---	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1---	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>



ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.- 0301

Lab Name: ASC Contract: NEESA CLJ-DS-07D  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) WATER Lab Sample ID: JM3561  
 Sample wt/vol: 400 (g/mL) mL Lab File ID: D8084  
 % Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94  
 Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94  
 Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/10/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>ug/L</u>	Q
95-48-7----	2-Methylphenol	0.100	U
106-44-5---	4-Methylphenol	0.100	U
67-72-1----	Hexachloroethane	0.100	U
98-95-3----	Nitrobenzene	0.100	U
87-68-3----	Hexachlorobutadiene	0.100	U
88-06-2----	2,4,6-Trichlorophenol	0.100	U
95-95-4----	2,4,5-Trichlorophenol	0.100	U
121-14-2---	2,4-Dinitrotoluene	0.100	U
118-74-1---	Hexachlorobenzene	0.100	U
87-86-5----	Pentachlorophenol	0.100	U
110-86-1---	Pyridine	0.100	U
72-43-5----	Methoxychlor	0.100	U
58-89-9----	gamma-BHC (Lindane)	0.100	U

ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-08

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3562

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8023

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 4000 (uL) Date Analyzed: 03/08/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5----	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2----	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1---	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1---	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>

ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO: **0307**

Lab Name: ASC Contract: NEESA CLJ-DS-09

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: JM3563

Sample wt/vol: 400 (g/mL) mL Lab File ID: D8024

% Moisture: NA decanted: (Y/N) NA Date Received: 02/18/94

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 03/02/94

Concentrated Extract Volume: 400 (uL) Date Analyzed: 03/08/94

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) <u>ug/L</u>	<u>Q</u>
95-48-7----	2-Methylphenol	<u>0.100</u>	<u>U</u>
106-44-5---	4-Methylphenol	<u>0.100</u>	<u>U</u>
67-72-1----	Hexachloroethane	<u>0.100</u>	<u>U</u>
98-95-3----	Nitrobenzene	<u>0.100</u>	<u>U</u>
87-68-3----	Hexachlorobutadiene	<u>0.100</u>	<u>U</u>
88-06-2----	2,4,6-Trichlorophenol	<u>0.100</u>	<u>U</u>
95-95-4----	2,4,5-Trichlorophenol	<u>0.100</u>	<u>U</u>
121-14-2---	2,4-Dinitrotoluene	<u>0.100</u>	<u>U</u>
118-74-1---	Hexachlorobenzene	<u>0.100</u>	<u>U</u>
87-86-5----	Pentachlorophenol	<u>0.100</u>	<u>U</u>
110-86-1---	Pyridine	<u>0.100</u>	<u>U</u>
72-43-5----	Methoxychlor	<u>0.100</u>	<u>U</u>
58-89-9----	gamma-BHC (Lindane)	<u>0.100</u>	<u>U</u>

2C  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA  
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT cut
01	SBLK1	92.8	97.5	30.6	85.9	89.7	82.5			1
02	SBK165	83.9	65.5	86.4	81.0	82.5	75.6			0
03	C652FMS	85.8	68.3	94.6	76.5	82.5	82.5			0
04	C652FMSD	83.7	0	85.7	5.41	86.9	0			3
05	C652R	76.4	62.3	90.3	68.6	72.9	83.3			0
06	C6529	84.1	90.2	93.5	73.4	80.2	81.7			0
07	CLJ-DS-06	77.0	92.2	91.8	69.2	72.9	80.2			0
08	CLJ-DS-07	87.2	88.8	93.5	72.3	78.6	85.7			0
09	CLJ-DS-07D	69.9	64.2	125	67.8	63.1	82.5			0
10	CLJ-DS-08	67.9	73.9	75.6	59.1	62.8	72.2			0
11	CLJ-DS-09	89.0	90.2	95.3	80.0	86.5	81.0			0
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QC LIMITS  
 S1 (NBZ) = Nitrobenzene-d5 (35-114)  
 S2 (FBP) = 2-Fluorobiphenyl (43-116)  
 S3 (TPH) = Terphenyl-d14 (33-141)  
 S4 (PHL) = Phenol-d5 (10-110)  
 S5 (2FP) = 2-Fluorophenol (21-110)  
 S6 (TBP) = 2,4,6-Tribromophenol (10-123)  
 S7 (2CP) = 2-Chlorophenol-d4 (33-110) (advisory)  
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (16-110) (advisory)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out

## SEMIVOLATILE MATRIX SPIKE, MATRIX SPIKE DUPLICATE RECOVERY

0309

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_Matrix Spike - EPA Sample No.: C6528MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
2,4,5-Trichlorophenol	101	0	75.3	74.7	30-130
2,4,6-Trichlorophenol	103	0	82.3	79.9	30-130
2,4-Dinitrotoluene	25.8	0	23.0	89.3	24-96
2-Methylphenol	26.3	0	25.0	95.2	30-130
4-Methylphenol	50.8	0	58.6	115	30-130
Hexachlorobenzene	29.3	0	23.7	81.0	30-130
Hexachlorobutadiene	27.5	0	14.9	54.2	30-130
Hexachloroethane	101	0	47.0	46.7	30-130
Nitrobenzene	50.8	0	42.9	84.5	30-130
Pentachlorophenol	102	0	174	171	9-103
Pyridine	73.3	0	54.5	74.4	30-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
2,4,5-Trichlorophenol	101	0	0	*	25 30-130
2,4,6-Trichlorophenol	103	0	0	*	25 30-130
2,4-Dinitrotoluene	25.8	21.2	82.2	8.14	25 24-96
2-Methylphenol	26.3	9.34	35.5	41.4	25 30-130
4-Methylphenol	50.8	16.8	33.1	111	25 30-130
Hexachlorobenzene	29.3	23.0	78.5	3.00	25 30-130
Hexachlorobutadiene	27.5	14.0	50.9	6.23	25 30-130
Hexachloroethane	101	42.0	41.6	11.2	25 30-130
Nitrobenzene	50.8	40.8	80.3	5.02	25 30-130
Pentachlorophenol	102	0	0	0	25 9-103
Pyridine	73.3	48.4	66.0	11.9	25 30-130

= Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 2 out of 11 outside limits  
 Spike Recovery: 4 out of 22 outside limits

COMMENTS: \_\_\_\_\_

## SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_Blank Spike - EPA Sample No.: SBK1BS

COMPOUND	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	BS CONCENTRATION (ug/Kg)	BS % REC #	QC LIMITS REC.
2,4,5-Trichlorophenol	101	0	67.6	67.1	30-130
2,4,6-Trichlorophenol	103	0	77.5	75.2	30-130
2,4-Dinitrotoluene	25.8	0	21.6	83.9	24-96
2-Methylphenol	26.3	0	23.9	91.0	30-130
4-Methylphenol	50.8	0	57.4	113.0	30-130
Hexachlorobenzene	29.3	0	28.7	98.1	30-130
Hexachlorobutadiene	27.5	0	20.2	73.5	30-130
Hexachloroethane	101	0	57.8	57.4	30-130
Nitrobenzene	50.8	0	45.2	89.1	30-130
Pentachlorophenol	102	0	139	136	9-103
Pyridine	73.3	0	54.3	74.1	30-130

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

\* Values outside of QC limits

Spike Recovery: 1 out of 11 outside limits

COMMENTS: \_\_\_\_\_

4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO. 031

SBIKI

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Lab File ID: D8014 Lab Sample ID: NFCA0179  
 Instrument ID: MSD-D Date Extracted: 3-02-94  
 Matrix: (soil/water) Water/TCL Date Analyzed: 3-07-94  
 Level: (low/med) Low Time Analyzed: 1901

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	C6529	JM3558	D8019	3-07-94
02	CLJ-DS-06	JM3559	D8020	3-07-94
03	CLJ-DS-07	JM3560	D8021	3-08-94
04	CLJ-DS-08	JM3562	D8023	3-08-94
05	CLJ-DS-09	JM3563	D8024	3-08-94
06	C6528	JM3557	D8018	3-07-94
07	C6528MS	JM3557	D8016	3-07-94
08	C6528MSD	JM3557	D8017	3-07-94
09	CLJ-DS-07D	JM3561	D8024	3-10-94
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COMMENTS:

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA  
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
Lab File ID: D8005 DFTPP Injection Date: 3-07-94  
Instrument ID: MSD-D DFTPP Injection Time: 0716

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	67.5
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	25.0 - 75.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 0.75% of mass 198	3.4
441	Present, but less than mass 443	71.2
442	40.0 - 110.0% of mass 198	75.5
443	15.0 - 24.0% of mass 442	41.6 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SS+d20	SS+d20	D8007	3-07-94	1323
02	SS+d50	SS+d50	D8008	3-07-94	1417
03	SS+d80	SS+d80	D8009	3-07-94	1511
04	SS+d120	SS+d120	D8010	3-07-94	1604
05	SS+d160	SS+d160	D8011	3-07-94	1658
06					
07					
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5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

031

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: D8012 DFTPP Injection Date: 3-07-94  
 Instrument ID: MSD-D DFTPP Injection Time: 1746

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	55.7
68	Less than 2.0% of mass 69	0.8 (1.2) 1
69	Mass 69 relative abundance	68.9
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	25.0 - 75.0% of mass 198	39.7
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	76.5
442	40.0 - 110.0% of mass 198	95.9
443	15.0 - 24.0% of mass 442	18.0 (18.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SS+d50	SS+d50	D8013	3-07-94	1807
02	SBIKI	N7C40179	D8014	3-07-94	1901
03	SBIKIBS	N7C40179	D8015	3-07-94	1945
04	C6528MS	JM3557	D8016	3-07-94	2029
05	C6528MSD	JM3557	D8017	3-07-94	2113
06	C6528	JM3557	D8018	3-07-94	2157
07	C6529	JM3558	D8019	3-07-94	2241
08	CLJ-DS-06	JM3559	D8020	3-07-94	2325
09	CLJ-DS-07	JM3560	D8021	3-08-94	0008
10	CLJ-DS-08	JM3562	D8023	3-08-94	0136
11	CLJ-DS-09	JM3563	D8024	3-08-94	0220
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5B  
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUCROTRIPHENYLPHOSPHINE (DFTPP)

0314

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: D8080 DFTPP Injection Date: 3-10-94  
 Instrument ID: MSD-D DFTPP Injection Time: 1151

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	63.8
68	Less than 2.0% of mass 69	0.4 ( 0.5 ) 1
69	Mass 69 relative abundance	72.3
70	Less than 2.0% of mass 69	0.2 ( 0.3 ) 1
127	25.0 - 75.0% of mass 198	41.3
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.1
365	Greater than 0.75% of mass 198	3.0
441	Present, but less than mass 443	20.6
442	40.0 - 110.0% of mass 198	108.7
443	15.0 - 24.0% of mass 442	21.5 ( 19.7 ) 2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SS150	SS150	D8081	3-10-94	1214
02	CLI-DB-51D	IM3561	D8084	3-10-94	1457
03					
04					
05					
06					
07					
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6B  
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

0315

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date(s): 02-08-94 03-07-94  
 Calibration Times: 11:52 16:58

LAB FILE ID: RRF20 = D8007 RRF50 = D8008  
 RRF80 = D8009 RRF120 = D8010 RRF160 = D8011

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%RSD
Phenol	1.75	1.70	1.72	1.60	1.52	1.66	5.82
bis(2-Chloroethyl) ether	3.66	3.60	3.42	3.20	3.02	3.38	7.91
2-Chlorophenol	1.34	1.35	1.30	1.26	1.24	1.30	3.51
1,3-Dichlorobenzene	1.43	1.45	1.30	1.33	1.35	1.37	4.71
1,4-Dichlorobenzene	1.51	1.48	1.53	1.33	1.33	1.43	6.95
1,2-Dichlorobenzene	1.37	1.29	1.20	1.08	1.08	1.20	10.5
2-Methylphenol	1.23	1.18	1.09	1.10	1.07	1.13	5.96
2,2'-oxybis(1-Chloropropane)	3.31	3.23	3.18	3.06	2.95	3.14	4.53
4-Methylphenol	1.41	1.39	1.38	1.29	1.23	1.34	5.73
N-Nitroso-di-n-propylamine	1.22	1.19	1.13	0.999	0.922	1.09	11.7
Hexachloroethane	0.680	0.687	0.648	0.622	0.624	0.652	4.65
Nitrobenzene	0.451	0.441	0.411	0.367	0.374	0.409	9.28
Isophorone	0.978	0.951	0.890	0.809	0.791	0.884	9.40
2-Nitrophenol	0.211	0.214	0.199	0.185	0.182	0.198	7.29
2,4-Dimethylphenol	0.401	0.398	0.372	0.334	0.324	0.366	9.70
bis(2-Chloroethoxy) methane	0.571	0.534	0.498	0.453	0.441	0.499	10.9
2,4-Dichlorophenol	0.281	0.292	0.277	0.252	0.243	0.269	7.72
1,2,4-Trichlorobenzene	0.325	0.318	0.294	0.264	0.269	0.294	9.36
Naphthalene	1.04	0.980	0.878	0.784	0.777	0.891	12.9
4-Chloroaniline	0.397	0.531	0.511	0.461	0.456	0.471	11.1
Hexachlorobutadiene	0.199	0.199	0.181	0.167	0.169	0.183	8.52
4-Chloro-3-methylphenol	0.375	0.388	0.373	0.347	0.343	0.365	5.34
2-Methylnaphthalene	0.659	0.637	0.575	0.503	0.485	0.572	13.6
Hexachlorocyclopentadiene	0.021	0.072	0.087	0.105	0.114	0.088	46.6
2,4,6-Trichlorophenol	0.348	0.354	0.327	0.307	0.297	0.327	7.68
2,4,5-Trichlorophenol	0.369	0.369	0.309	0.268	0.258	0.315	17.0
2-Chloronaphthalene	1.06	0.994	0.867	0.783	0.741	0.889	15.3
2-Nitroaniline	0.426	0.477	0.441	0.420	0.414	0.436	5.79
Dimethylphthalate	1.51	1.42	1.26	1.13	1.09	1.28	14.0
Acenaphthylene	1.67	1.57	1.42	1.25	1.20	1.42	14.4
2,6-Dinitrotoluene	0.339	0.352	0.334	0.306	0.301	0.326	6.78
3-Nitroaniline	0.247	0.268	0.282	0.281	0.287	0.273	5.98
Acenaphthene	1.14	1.06	0.903	0.762	0.712	0.915	20.1
2,4-Dinitrophenol		0.050	0.063	0.077	0.093	0.071	26.4
4-Nitrophenol		0.059	0.070	0.082	0.094	0.076	20.1
Dibenzofuran	1.59	1.45	1.25	1.05	0.977	1.26	20.6
2,4-Dinitrotoluene							

All other compounds must meet a minimum RRF of 0.010.

6C SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA
Instrument ID: MSD-D Calibration Date(s): 02-08-94 03-07-94
Calibration Times: 11:52 16:58

LAB FILE ID: RRF20 = D8007 RRF50 = D8008
RRF80 = D8009 RRF120 = D8010 RRF160 = D8010

Table with 8 columns: COMPOUND, RRF20, RRF50, RRF80, RRF120, RRF160, RRF, and % RSD. Lists various compounds like Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, etc., with their respective RRF values and RSD percentages.

1) Cannot be separated from Diphenylamine
\* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date: 03-07-94 Time: 18:07  
 Lab File ID: D8013 Init. Calib. Date(s): 02-08-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.66	1.79	0.800	8.00	25.0
bis(2-Chloroethyl) ether	3.38	3.69	0.700	9.00	25.0
2-Chlorophenol	1.29	1.37	0.800	5.20	25.0
1,3-Dichlorobenzene	1.37	1.45	0.600	5.80	25.0
1,4-Dichlorobenzene	1.43	1.51	0.500	5.00	25.0
1,2-Dichlorobenzene	1.20	1.30	0.400	8.30	25.0
2-Methylphenol	1.13	1.22	0.700	7.80	25.0
2,2'-oxybis(1-Chloropropane)	3.14	3.37		7.30	
4-Methylphenol	1.34	1.47	0.600	9.80	25.0
N-Nitroso-di-n-propylamine	1.09	1.28	0.500	16.9	25.0
Hexachloroethane	0.652	0.703	0.300	7.80	25.0
Nitrobenzene	0.409	0.447	0.200	9.30	25.0
Isophorone	0.884	1.003	0.400	13.4	25.0
2-Nitrophenol	0.198	0.212	0.100	7.20	25.0
2,4-Dimethylphenol	0.366	0.408	0.200	11.7	25.0
bis(2-Chloroethoxy)methane	0.499	0.563	0.300	12.7	25.0
2,4-Dichlorophenol	0.269	0.291	0.200	8.00	25.0
1,2,4-Trichlorobenzene	0.294	0.319	0.200	8.60	25.0
Naphthalene	0.891	1.003	0.700	12.6	25.0
4-Chloroaniline	0.471	0.551		16.9	
Hexachlorobutadiene	0.183	0.193		5.40	
4-Chloro-3-methylphenol	0.365	0.405	0.200	10.9	25.0
2-Methylnaphthalene	0.572	0.650	0.400	13.7	25.0
Hexachlorocyclopentadiene	0.080	0.066		17.6	
2,4,6-Trichlorophenol	0.327	0.350	0.200	7.10	25.0
2,4,5-Trichlorophenol	0.315	0.377	0.200	19.9	25.0
2-Chloronaphthalene	0.889	0.990	0.300	11.4	25.0
2-Nitroaniline	0.436	0.484		11.0	
Dimethylphthalate	1.28	1.48		15.5	
Acenaphthylene	1.42	1.60	1.200	12.3	25.0
2,6-Dinitrotoluene	0.326	0.376	0.200	15.1	25.0
3-Nitroaniline	0.273	0.278		1.70	
Acenaphthene	0.915	1.08	0.800	17.9	25.0
2,4-Dinitrophenol	0.071	0.053		24.2	
4-Nitrophenol	0.076	0.053		30.2	
Dibenzofuran	1.26	1.48	0.800	17.1	25.0
2,4-Dinitrotoluene	0.409	0.485	0.200	18.6	25.0

All other compounds must meet a minimum RRF of 0.010.

7C  
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date: 03-10-94 Time: 12:14 DA 18:07  
 Lab File ID: D8013 Init. Calib. Date(s): 02-10-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.39	1.61		16.5	
4-Chlorophenyl-phenylether	0.558	0.637	0.400	14.0	25.0
Fluorene	1.02	1.19	0.900	17.0	25.0
4-Nitroaniline	0.241	0.281		16.3	
4,6-Dinitro-2-methylphenol	0.113	0.136		20.4	
N-Nitrosodiphenylamine (1)	0.144	0.508		14.4	
4-Bromophenyl-phenylether	0.235	0.263	0.100	12.1	25.0
Hexachlorobenzene	0.325	0.361	0.100	10.8	25.0
Pentachlorophenol	0.093	0.077	0.050	16.8	25.0
Phenanthrene	0.913	1.03	0.700	12.5	25.0
Anthracene	0.446	1.09	0.700	15.0	25.0
Carbazole	0.846	0.999		17.6	
Di-n-butylphthalate	1.51	1.81		19.7	
Fluoranthene	0.993	1.18	0.600	18.4	25.0
Pyrene	1.14	1.29	0.600	13.7	25.0
Butylbenzylphthalate	0.638	0.778		22.0	
3,3'-Dichlorobenzidine	0.398	0.461		16.0	
Benzo(a)anthracene	1.06	1.16	0.800	9.50	25.0
Chrysene	1.01	1.09	0.700	8.30	25.0
bis(2-Ethylhexyl)phthalate	1.07	1.25		17.0	
Di-n-octylphthalate	1.76	1.93		10.1	
Benzo(b)fluoranthene	1.03	1.12	0.700	8.70	25.0
Benzo(k)fluoranthene	1.18	1.29	0.700	9.40	25.0
Benzo(a)pyrene	0.907	0.978	0.700	7.80	25.0
Indeno(1,2,3-cd)pyrene	0.823	0.896	0.500	8.90	25.0
Dibenz(a,h)anthracene	0.663	0.715	0.400	8.00	25.0
Benzo(g,h,i)perylene	0.650	0.690	0.500	6.20	25.0
Nitrobenzene-d5	0.413	0.457	0.200	10.5	25.0
2-Fluorobiphenyl	0.955	1.04	0.700	8.90	25.0
Terphenyl-d14	0.900	1.04	0.500	15.8	25.0
Phenol-d5	1.51	1.63	0.800	8.10	25.0
2-Fluorophenol	1.22	1.28	0.600	4.80	25.0
2,4,6-Tribromophenol	0.265	0.312		17.6	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine  
 All other compounds must meet a minimum RRF of 0.010.

7B

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date: 03-10-94 Time: 12:14  
 Lab File ID: D8081 Init. Calib. Date(s): 02-08-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.66	1.77	0.800	6.80	25.0
bis(2-Chloroethyl) ether	3.38	3.62	0.700	7.20	25.0
2-Chlorophenol	1.30	1.32	0.800	1.50	25.0
1,3-Dichlorobenzene	1.37	1.34	0.600	2.80	25.0
1,4-Dichlorobenzene	1.43	1.55	0.500	8.40	25.0
1,2-Dichlorobenzene	1.20	1.26	0.400	5.10	25.0
2-Methylphenol	1.13	1.38	0.700	21.6	25.0
2,2'-oxybis(1-Chloropropane)	3.14	4.10		40.0	
4-Methylphenol	1.34	1.47	0.600	9.30	25.0
N-Nitroso-di-n-propylamine	1.09	1.32	0.500	20.9	25.0
Hexachloroethane	0.652	0.720	0.300	10.5	25.0
Nitrobenzene	0.413	0.473	0.200	14.4	25.0
Isophorone	0.884	1.04	0.400	17.9	25.0
2-Nitrophenol	0.198	0.226	0.100	14.2	25.0
2,4-Dimethylphenol	0.366	0.406	0.200	1.0	25.0
bis(2-Chloroethoxy) methane	0.494	0.576	0.300	15.4	25.0
2,4-Dichlorophenol	0.269	0.298	0.200	10.8	25.0
1,2,4-Trichlorobenzene	0.294	0.325	0.200	10.4	25.0
Naphthalene	0.891	1.04	0.700	17.1	25.0
4-Chloroaniline	0.471	0.428		10.1	
Hexachlorobutadiene	0.183	0.217		18.8	
4-Chloro-3-methylphenol	0.365	0.400	0.200	9.6	25.0
2-Methylnaphthalene	0.572	0.636	0.400	11.2	25.0
Hexachlorocyclopentadiene	0.080	0.095		19.3	
2,4,6-Trichlorophenol	0.327	0.353	0.200	8.00	25.0
2,4,5-Trichlorophenol	0.315	0.358	0.200	13.9	25.0
2-Chloronaphthalene	0.889	0.986	0.300	10.9	25.0
2-Nitroaniline	0.436	0.497		14.1	
Dimethylphthalate	1.28	1.40		9.20	
Acenaphthylene	1.42	1.57	1.200	10.5	25.0
2,6-Dinitrotoluene	0.326	0.365	0.200	11.9	25.0
3-Nitroaniline	0.273	0.297		9.70	
Acenaphthene	0.915	1.06	0.800	16.2	25.0
2,4-Dinitrophenol	0.071	0.068		3.3	
4-Nitrophenol	0.076	0.050		34.6	
Dibenzofuran	1.26	1.47	0.800	16.7	25.0
2,4-Dinitrotoluene	0.409	0.475	0.200	16.1	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-D Calibration Date: 03-10-94 Time: 12:14  
 Lab File ID: D8081 Init. Calib. Date(s): 02-08-94 03-07-94  
 Init. Calib. Times: 11:52 16:58

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.39	1.62		16.9	
4-Chlorophenyl-phenylether	0.558	0.654	0.400	17.1	25.0
Fluorene	1.02	1.23	0.900	21.0	25.0
4-Nitroaniline	0.241	0.271		12.4	
4,6-Dinitro-2-methylphenol	0.113	0.135		19.7	
N-Nitrosodiphenylamine (1)	0.444	0.522		17.6	
4-Bromophenyl-phenylether	0.235	0.257	0.100	9.50	25.0
Hexachlorobenzene	0.325	0.349	0.100	7.30	25.0
Pentachlorophenol	0.093	0.092	0.050	0.500	25.0
Phenanthrene	0.913	1.09	0.700	19.8	25.0
Anthracene	0.946	1.09	0.700	14.7	25.0
Carbazole	0.849	0.983		15.8	
Di-n-butylphthalate	1.51	1.78		17.7	
Fluoranthene	0.993	1.13	0.600	13.7	25.0
Pyrene	1.14	1.38	0.600	21.4	25.0
Butylbenzylphthalate	0.638	0.801		25.6	
3,3'-Dichlorobenzidine	2.25	2.84		26.3	
Benzo(a)anthracene	1.06	1.16	0.800	9.00	25.0
Chrysene	1.01	1.14	0.700	12.0	25.0
bis(2-Ethylhexyl)phthalate	1.07	1.35		27.1	
Di-n-octylphthalate	1.76	2.25		28.2	
Benzo(b)fluoranthene	1.03	1.05	0.700	1.90	25.0
Benzo(k)fluoranthene	1.18	1.37	0.700	16.4	25.0
Benzo(a)pyrene	0.907	0.989	0.700	9.00	25.0
Indeno(1,2,3-cd)pyrene	0.823	0.975	0.500	18.5	25.0
Dibenz(a,h)anthracene	0.663	0.794	0.400	19.9	25.0
Benzo(g,h,i)perylene	0.650	0.778	0.500	19.7	25.0
Nitrobenzene-d5	0.413	0.473	0.200	14.4	25.0
2-Fluorobiphenyl	0.955	1.01	0.700	5.7	25.0
Terphenyl-d14	0.900	1.09	0.500	20.9	25.0
Phenol-d5	1.51	1.59	0.800	5.50	25.0
2-Fluorophenol	1.22	1.22	0.600	0.00	25.0
2,4,6-Tribromophenol	0.265	0.286		7.80	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.



SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): DB013 Date Analyzed: 03-01-94  
 Instrument ID: MSD-D Time Analyzed: 1807

	IS1 (DCB)	RT ‡	IS2 (NPT)	RT ‡	IS3 (ANT)	RT	
	AREA ‡		AREA ‡		AREA ‡		
12 HOUR STD	24848	10.49	93939	13.06	62429	16.98	
UPPER LIMIT	49696	10.49	187878	13.56	124858	17.48	
LOWER LIMIT	12424	9.99	46969	12.56	31214	16.48	
EPA SAMPLE NO.							
01	SBIK1	26675	10.49	92888	13.06	54344	17.00
02	SBIK1B5	32350	10.49	116292	13.06	73175	17.00
03	C6528MS	31717	10.49	116071	13.06	70767	16.98
04	C6528MSD	32502	10.49	115572	13.06	72420	17.00
05	C6528	30686	10.49	110838	13.06	67817	16.98
06	C6529	29947	10.49	106532	13.06	63181	17.00
07	CLJ-DS-06	31966	10.49	115655	13.06	645275*	17.00
08	CLJ-DS-07	30992	10.49	108156	13.06	67074	17.00
09	CLJ-DS-08	31480	10.49	110741	13.06	68237	17.00
10	CLJ-DS-09	29259	10.49	106329	13.06	66397	17.00
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 (NPT) = Naphthalene-d8  
 IS3 (ANT) = Acenaphthene-d10

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

‡ Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

3C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0322

Lab Name: AFSC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): D8013 Date Analyzed: 03-07-94  
 Instrument ID: MSD-D Time Analyzed: 1807

	IS4 (PHN) AREA #	RT ‡	IS5 (CRY) AREA #	RT ‡	IS6 (PRY) AREA #	RT ‡	
12 HOUR STD	107570	20.37	95743	26.75	99571	32.52	
UPPER LIMIT	715140	20.87	191886	27.25	199412	33.02	
LOWER LIMIT	53735	17.87	47971	26.25	49785	32.02	
EPA SAMPLE NO.							
01	2BIKI	83490	20.36	77018	26.73	73409	32.55
02	SBIK1BS	116419	20.38	100544	26.74	84875	32.55
03	C6528ms	119538	20.36	104627	26.73	93463	32.54
04	C6528msd	117256	20.36	107334	26.74	90763	32.54
05	C6528	110778	20.36	101678	26.72	94620	32.54
06	C6529	101189	20.36	90177	26.74	88241	32.55
07	CLJ-DS-06	115655	20.36	104527	26.74	98495	32.53
08	CLJ-DS-07	109482	20.38	101619	26.74	96285	32.55
09	CLJ-DS-08	103925	20.36	102337	26.74	95403	32.53
10	CLJ-DS-09	104485	20.36	95778	26.74	91281	32.55
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10  
 IS5 (CRY) = Chrysene-d12  
 IS6 (PRY) = Perylene-d12

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

‡ Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): D3081 Date Analyzed: 3-10-94  
 Instrument ID: MSD-D Time Analyzed: 12:44

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT
12 HOUR STD	28947	10.50	109923	13.07	77172	17.00
UPPER LIMIT	57894	11.00	219846	13.57	154344	17.50
LOWER LIMIT	14473	10.00	54961	12.57	38586	16.50
EPA SAMPLE NO.						
01 <u>CU-16-07D</u>	<u>28565</u>	<u>10.49</u>	<u>102353</u>	<u>13.06</u>	<u>67142</u>	<u>16.98</u>
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4  
 IS2 (NPT) = Naphthalene-d8  
 IS3 (ANT) = Acenaphthene-d10

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

# Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

3C  
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0324

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID (Standard): D8081 Date Analyzed: 3-10-94  
 Instrument ID: MSD-D Time Analyzed: 12:14

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	135369	20.88	108995	26.74	103478	32.51
UPPER LIMIT	270736	20.88	217990	27.24	206956	33.01
LOWER LIMIT	67634	19.88	54497	26.24	51739	32.01
EPA SAMPLE NO.						
01	CLI-DS-070	20.88	101811	26.72	101665	32.51
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10  
 IS5 (CRY) = Chrysene-d12  
 IS6 (PRY) = Perylene-d12

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

# Column used to flag internal standard area values with an asterisk.  
 \* Values outside of QC limits.

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA VBLK01  
 Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: N/A  
 Matrix: (soil/water) tlp Lab Sample ID: N7V3336  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B2856  
 Level: (low/med) DAED<sup>AA</sup> Low Date Received: 2/18/94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	-----Chloromethane		
74-83-9	-----Bromomethane		
75-01-4	-----Vinyl Chloride	125	U
75-00-3	-----Chloroethane		
75-09-2	-----Methylene Chloride		
67-64-1	-----Acetone		
75-15-0	-----Carbon Disulfide		
75-35-4	-----1,1-Dichloroethene	125	U
75-34-3	-----1,1-Dichloroethane		
540-59-0	-----1,2-Dichloroethene (total)		
67-66-3	-----Chloroform	125	U
107-06-2	-----1,2-Dichloroethane	125	U
78-93-3	-----2-Butanone	250	U
71-55-6	-----1,1,1-Trichloroethane		
56-23-5	-----Carbon Tetrachloride	125	U
75-27-4	-----Bromodichloromethane		
78-87-5	-----1,2-Dichloropropane		
10061-01-5	-----cis-1,3-Dichloropropene		
79-01-6	-----Trichloroethene	125	U
124-48-1	-----Dibromochloromethane		
79-00-5	-----1,1,2-Trichloroethane		
71-43-2	-----Benzene	125	U
10061-02-6	-----trans-1,3-Dichloropropene		
75-25-2	-----Bromoform		
108-10-1	-----4-Methyl-2-Pentanone		
591-78-4	-----2-Hexanone		
127-18-4	-----Tetrachloroethene	125	U
79-34-5	-----1,1,2,2-Tetrachloroethane		
108-88-3	-----Toluene		
108-90-7	-----Chlorobenzene		
100-41-4	-----Ethylbenzene		
100-42-5	-----Styrene		
1330-20-7	-----Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSPK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) water Lab Sample ID: JFA355715CN7V332

Sample wt/vol: .2004000 (g/mL) ml Lab File ID: B2857

Level: (low/med) low Date Received: NA

% Moisture: not dec. NA Date Analyzed: 3-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	2130	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	1680	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	1930	
107-06-2	1,2-Dichloroethane	1850	
78-93-3	2-Butanone	3260	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1940 1930	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	1780	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	17	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	1820	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	1830	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	1790	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6528MS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_

Matrix: (soil/water) water Lab Sample ID: IM3557

Sample wt/vol: 1200 (g/mL) ml Lab File ID: B2858

Level: (low/med) low Date Received: \_\_\_\_\_

% Moisture: not dec. NA Date Analyzed: 3-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1

Soil Extract Volume: NA (uL) Soil Aliquot Volume: NA (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	1790	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	1600	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	1850	
107-06-2	1,2-Dichloroethane	1790	
78-93-3	2-Butanone	3220	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1870	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	1760	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	1730	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	1760	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	1790	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	1770	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CL528MSD

Lab Name: ASC

Contract: NEESA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: \_\_\_\_\_

Matrix: (soil/water) water

Lab Sample ID: JM3357

Sample wt/vol: .100 (g/mL) ml

Lab File ID: B2859

Level: (low/med) low

Date Received: \_\_\_\_\_

% Moisture: not dec. NA

Date Analyzed: 3-04-94

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1

Soil Extract Volume: NA (uL)

Soil Aliquot Volume: NA (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	211'	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	1710	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	1990	
107-06-2	1,2-Dichloroethane	1930	
78-93-3	2-Butanone	3170	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1950	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	1800	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	1830	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-Pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	1860	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	1840	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	
106-46-7	1,4-Dichlorobenzene	1800	



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

0329  
EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA C6528

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: N/A

Matrix: (soil/water) TCU Lab Sample ID: JM3557

Sample wt/vol: 300 (g/mL) mL Lab File ID: B2860

Level: (low/med) Low Date Received: 02-18-94

% Moisture: not dec. - Date Analyzed: 03-04-94

GC Column: DB21 ID: 0.53 (mm) Dilution Factor: 25

Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	Chloromethane		
74-83-9	Bromomethane		
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane		
75-09-2	Methylene Chloride		
67-64-1	Acetone		
75-15-0	Carbon Disulfide		
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane		
540-59-0	1,2-Dichloroethene (total)		
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane		
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane		
78-87-5	1,2-Dichloropropane		
10061-01-5	cis-1,3-Dichloropropene		
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane		
79-00-5	1,1,2-Trichloroethane		
71-43-2	Benzene	125	U
10061-02-6	trans-1,3-Dichloropropene		
75-25-2	Bromoform		
108-10-1	4-Methyl-2-Pentanone		
591-78-4	2-Hexanone		
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane		
108-88-3	Toluene		
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene		
100-42-5	Styrene		
1330-20-7	Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C6529

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) \_\_\_\_\_ Lab Sample ID: JM3558  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B2861  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB224 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	<u>ug/L</u>	<u>Q</u>
74-87-3	Chloromethane			
74-83-9	Bromomethane			
75-01-4	Vinyl Chloride		125	U
75-00-3	Chloroethane			
75-09-2	Methylene Chloride			
67-64-1	Acetone			
75-15-0	Carbon Disulfide			
75-35-4	1,1-Dichloroethene		125	U
75-34-3	1,1-Dichloroethane			
540-59-0	1,2-Dichloroethene (total)			
67-66-3	Chloroform		125	U
107-06-2	1,2-Dichloroethane		125	U
78-93-3	2-Butanone		250	U
71-55-6	1,1,1-Trichloroethane			
56-23-5	Carbon Tetrachloride		125	U
75-27-4	Bromodichloromethane			
78-87-5	1,2-Dichloropropane			
10061-01-5	cis-1,3-Dichloropropene			
79-01-6	Trichloroethene		125	U
124-48-1	Dibromochloromethane			
79-00-5	1,1,2-Trichloroethane			
71-43-2	Benzene		125	U
10061-02-6	trans-1,3-Dichloropropene			
75-25-2	Bromoform			
108-10-1	4-Methyl-2-Pentanone			
591-78-4	2-Hexanone			
127-18-4	Tetrachloroethene		125	U
79-34-5	1,1,2,2-Tetrachloroethane			
108-88-3	Toluene			
108-90-7	Chlorobenzene		125	U
100-41-4	Ethylbenzene			
100-42-5	Styrene			
1330-20-7	Xylene (total)			
106-46-7	1,4-Dichlorobenzene		125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

0331  
EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DS-06  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: N/A  
 Matrix: (soil/water) TCUP Lab Sample ID: JM3559  
 Sample wt/vol: 300 (g/mL) ML Lab File ID: B9862  
 Level: (low/med) Low Date Received: 02-18-94  
 ‡ Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
74-87-3	Chloromethane		
74-83-9	Bromomethane		
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane		
75-09-2	Methylene Chloride		
67-64-1	Acetone		
75-15-0	Carbon Disulfide		
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane		
540-59-0	1,2-Dichloroethene (total)		
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane		
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane		
78-87-5	1,2-Dichloropropane		
10061-01-5	cis-1,3-Dichloropropene		
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane		
79-00-5	1,1,2-Trichloroethane		
71-43-2	Benzene	125	U
10061-02-6	trans-1,3-Dichloropropene		
75-25-2	Bromoform		
108-10-1	4-Methyl-2-Pentanone		
591-78-4	2-Hexanone		
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane		
108-88-3	Toluene		
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene		
100-42-5	Styrene		
1330-20-7	Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	U

*not present*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

0332  
EPA SAMPLE NO.

CLJ-DS-07

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) Soil Lab Sample ID: JM3560  
 Sample wt/vol: 300 (g/mL) m Lab File ID: B2863  
 Level: (low/med) Low Date Received: 02-18-94  
 % Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane			
74-83-9	Bromomethane			
75-01-4	Vinyl Chloride	125		U
75-00-3	Chloroethane			
75-09-2	Methylene Chloride			
67-64-1	Acetone			
75-15-0	Carbon Disulfide			
75-35-4	1,1-Dichloroethene	125		U
75-34-3	1,1-Dichloroethane			
540-59-0	1,2-Dichloroethene (total)			
67-66-3	Chloroform	125		U
107-06-2	1,2-Dichloroethane	125		U
78-93-3	2-Butanone	250		U
71-55-6	1,1,1-Trichloroethane			
56-23-5	Carbon Tetrachloride	125		U
75-27-4	Bromodichloromethane			
78-87-5	1,2-Dichloropropane			
10061-01-5	cis-1,3-Dichloropropene			
79-01-6	Trichloroethene	125		U
124-48-1	Dibromochloromethane			
79-00-5	1,1,2-Trichloroethane			
71-43-2	Benzene	125		U
10061-02-6	trans-1,3-Dichloropropene			
75-25-2	Bromoform			
108-10-1	4-Methyl-2-Pentanone			
591-78-4	2-Hexanone			
127-18-4	Tetrachloroethene	125		U
79-34-5	1,1,2,2-Tetrachloroethane			
108-88-3	Toluene			
108-90-7	Chlorobenzene	125		U
100-41-4	Ethylbenzene			
100-42-5	Styrene			
1330-20-7	Xylene (total)			
106-46-7	1,4-Dichlorobenzene	125		U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC Contract: NEESA CLJ-DS-07D  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Matrix: (soil/water) TCLP Lab Sample ID: JM3561  
 Sample wt/vol: 300 (g/mL) mL Lab File ID: B2864  
 Level: (low/med) Low Date Received: 02-18-94  
 ‡ Moisture: not dec. - Date Analyzed: 03-04-94  
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25  
 Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>		Q
74-87-3	Chloromethane			
74-83-9	Bromomethane			
75-01-4	Vinyl Chloride	125	U	
75-00-3	Chloroethane			
75-09-2	Methylene Chloride			
67-64-1	Acetone			
75-15-0	Carbon Disulfide			
75-35-4	1,1-Dichloroethene	125	U	
75-34-3	1,1-Dichloroethane			
540-59-0	1,2-Dichloroethene (total)			
67-66-3	Chloroform	125	U	
107-06-2	1,2-Dichloroethane	125	U	
78-93-3	2-Butanone	250	U	
71-55-6	1,1,1-Trichloroethane			
56-23-5	Carbon Tetrachloride	125	U	
75-27-4	Bromodichloromethane			
78-87-5	1,2-Dichloropropane			
10061-01-5	cis-1,3-Dichloropropene			
79-01-6	Trichloroethene	125	U	
124-48-1	Dibromochloromethane			
79-00-5	1,1,2-Trichloroethane			
71-43-2	Benzene	125	U	
10061-02-6	trans-1,3-Dichloropropene			
75-25-2	Bromoform			
108-10-1	4-Methyl-2-Pentanone			
591-78-4	2-Hexanone			
127-18-4	Tetrachloroethene	125	U	
79-34-5	1,1,2,2-Tetrachloroethane			
108-88-3	Toluene			
108-90-7	Chlorobenzene	125	U	
100-41-4	Ethylbenzene			
100-42-5	Styrene			
1330-20-7	Xylene (total)			
106-46-7	1,4-Dichlorobenzene	125	U	

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ASC

Contract: NEESA

CLJ-DS-08

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) TCF Lab Sample ID: JM3562

Sample wt/vol: 300 (g/mL) ML Lab File ID: B2865

Level: (low/med) Low Date Received: 02-18-94

% Moisture: not dec. - Date Analyzed: 03-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25

Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L Q

74-87-3	-----Chloromethane		
74-83-9	-----Bromomethane		
75-01-4	-----Vinyl Chloride	125	U
75-00-3	-----Chloroethane		
75-09-2	-----Methylene Chloride		
67-64-1	-----Acetone		
75-15-0	-----Carbon Disulfide		
75-35-4	-----1,1-Dichloroethene	125	U
75-34-3	-----1,1-Dichloroethane		
540-59-0	-----1,2-Dichloroethene (total)		
67-66-3	-----Chloroform	125	U
107-06-2	-----1,2-Dichloroethane	125	U
78-93-3	-----2-Butanone	250	U
71-55-6	-----1,1,1-Trichloroethane		
56-23-5	-----Carbon Tetrachloride	125	U
75-27-4	-----Bromodichloromethane		
78-87-5	-----1,2-Dichloropropane		
10061-01-5	-----cis-1,3-Dichloropropene		
79-01-6	-----Trichloroethene	125	U
124-48-1	-----Dibromochloromethane		
79-00-5	-----1,1,2-Trichloroethane		
71-43-2	-----Benzene	125	U
10061-02-6	-----trans-1,3-Dichloropropene		
75-25-2	-----Bromoform		
108-10-1	-----4-Methyl-2-Pentanone		
591-78-4	-----2-Hexanone		
127-18-4	-----Tetrachloroethene	125	U
79-34-5	-----1,1,2,2-Tetrachloroethane		
108-88-3	-----Toluene		
108-90-7	-----Chlorobenzene	125	U
100-41-4	-----Ethylbenzene		
100-42-5	-----Styrene		
1330-20-7	-----Xylene (total)		
106-46-7	1,4-Dichlorobenzene	125	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA CLJ-DS-09

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) \_\_\_\_\_ Lab Sample ID: JM3563

Sample wt/vol: 300 (g/mL) \_\_\_\_\_ Lab File ID: B2866

Level: (low/med) Low Date Received: 02-18-94

% Moisture: not dec. - Date Analyzed: 03-04-94

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 25

Soil Extract Volume: - (uL) Soil Aliquot Volume: - (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>ug/L</u> <span style="float: right;">Q</span>
74-87-3	-----Chloromethane		
74-83-9	-----Bromomethane		
75-01-4	-----Vinyl Chloride	125	U
75-00-3	-----Chloroethane		
75-09-2	-----Methylene Chloride		
67-64-1	-----Acetone		
75-15-0	-----Carbon Disulfide		
75-35-4	-----1,1-Dichloroethene	125	U
75-34-3	-----1,1-Dichloroethane		
540-59-0	-----1,2-Dichloroethene (total)		
67-66-3	-----Chloroform	125	U
107-06-2	-----1,2-Dichloroethane	125	U
78-93-3	-----2-Butanone	250	U
71-55-6	-----1,1,1-Trichloroethane		
56-23-5	-----Carbon Tetrachloride	125	U
75-27-4	-----Bromodichloromethane		
78-87-5	-----1,2-Dichloropropane		
10061-01-5	-----cis-1,3-Dichloropropene		
79-01-6	-----Trichloroethene	125	U
124-48-1	-----Dibromochloromethane		
79-00-5	-----1,1,2-Trichloroethane		
71-43-2	-----Benzene	125	U
10061-02-6	-----trans-1,3-Dichloropropene		
75-25-2	-----Bromoform		
108-10-1	-----4-Methyl-2-Pentanone		
591-78-4	-----2-Hexanone		
127-18-4	-----Tetrachloroethene	125	U
79-34-5	-----1,1,2,2-Tetrachloroethane		
108-88-3	-----Toluene		
108-90-7	-----Chlorobenzene	125	U
100-41-4	-----Ethylbenzene		
100-42-5	-----Styrene		
1330-20-7	-----Xylene (total)		
106-46-7	1,4 Dichlorobenzene	125	U

2A  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0336

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	93.2	89.6	87.3		0
02	VBLK01DS	93.1	92.8	85.7		0
03	C6528MS	100	97.0	97.5		0
04	C6528MSD	96.2	93.3	87.3		0
05	C6528	95.1	92.3	93.7		0
06	C6529	95.5	93.7	93.3		0
07	CL1-DS-06	90.4	88.6	89.0		0
08	CL1-DS-07	86.9 *	85.6 *	86.1		2
09	CL1-DS-07D	95.2	94.2	95.3		0
10	CL1-DS-08	91.6	88.4	90.8		0
11	CL1-DS-09	88.8	85.0 *	86.6		1
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)  
 SMC2 (BFB) = Bromofluorobenzene (86-115)  
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out



VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY . 0337

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01

Matrix Spike - EPA Sample No.: C6528

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	64.0	64.0	61-145
Trichloroethene	100	0	70.3	70.3 *	71-120
Benzene	100	0	69.3	69.3 *	76-127
Chlorobenzene	100	0	71.6	71.6 *	75-130
1,2-Dichloroethane	100	0	71.5	71.5	30-130
1,4-dichlorobenzene	100	0	70.9	70.9	30-130
Carbon Tetrachloride	100	0	70.5	70.5	30-130
Chloroform	100	0	73.9	73.9	30-130
2-Butanone	200	0	129	64.3	30-130
Tetrachloroethene	100	0	70.5	70.5	30-130
Vinyl Chloride	100	0	79.5	79.5	30-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	100	68.3	68.3	6.45	14 61-145
Trichloroethene	100	72.0	72.0	2.35	14 71-120
Benzene	100	73.0	73.0 *	5.30	11 76-127
Chlorobenzene	100	73.5	73.5 *	2.60	13 75-130
1,2-Dichloroethane	100	77.1	77.1	7.50	20 30-130
1,4-dichlorobenzene	100	71.8	71.8	1.29	20 30-130
Carbon Tetrachloride	100	78.0	78.0	4.29	20 30-130
Chloroform	100	79.8	79.8	7.59	20 30-130
2-Butanone	200	127	63.4	1.47 1.56	20 30-130
Tetrachloroethene	100	74.2	74.2	5.13	20 30-130
Vinyl Chloride	100	84.6	84.6	6.22	20 30-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 11 outside limits  
 Spike Recovery: 5 out of 22 outside limits

COMMENTS: \_\_\_\_\_

## VOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESALab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01Blank Spike - EPA Sample No.: VBLK01BS

COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	100	0	67.4	67.4	61-145
Trichloroethene	100	0	71.2	71.2	71-120
Benzene	100	0	71.4	71.4 *	76-127
Chlorobenzene	100	0	73.2	73.2 *	75-130
1,2-Dichloroethane	100	0	74.0	74.0	30-130
1,4-dichlorobenzene	100	0	71.7	71.7	30-130
Carbon Tetrachloride	100	0	77.5	77.5	30-130
Chloroform	100	0	77.0	77.0	30-130
2-Butanone	200	0	130	65.2	30-130
Tetrachloroethene	100	0	72.8	72.8	30-130
Vinyl Chloride	100	0	85.1	85.1	30-130

# Column to be used to flag recovery values with an asterisk

\* Values outside of QC limits

Spike Recovery: 2 out of 11 outside limits

COMMENTS: \_\_\_\_\_

4A  
VOLATILE METHOD BLANK SUMMARY

Lab Name: ASC Contract: NEESA VBLK01  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B2856 Lab Sample ID: N7V3326VS  
 Date Analyzed: 3-4-94 Time Analyzed: 10:39  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N)       
 Instrument ID: MSD-B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	C6528MS	JM 3557VS	B2858	12:03
02	C6528MSD	JM 3557VR	B2859	12:39
03	C6528	JM 3557V	B2860	13:15
04	C6529	JM 3558V	B2861	13:50
05	CLJ-DS-06	JM 3559V	B2862	14:26
06	CLJ-DS-07	JM 3560V	B2863	15:02
07	CLJ-DS-07D	JM 3561V	B2864	15:38
08	CLJ-DS-08	JM 3562V	B2865	16:15
09	CLJ-DS-09	JM 3563V	B2866	16:50
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COMMENTS:

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5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B2816 BFB Injection Date: 2-21-94  
 Instrument ID: MSD-B BFB Injection Time: 09:49  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.44
75	30.0 - 66.0% of mass 95	43.24
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	(0.00) 1
174	50.0 - 120.0% of mass 95	71.40
175	4.0 - 9.0 % of mass 174	(7.10) 1
176	93.0 - 101.0% of mass 174	(98.77) 1
177	5.0 - 9.0% of mass 176	(6.25) 2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	B2817	2-21-94	10:13
02	VSTD020	VSTD020	B2818	2-21-94	10:55
03	VSTD050	VSTD050	B2819	2-21-94	11:30
04	VSTD100	VSTD100	B2820	2-21-94	12:06
05	VSTD200	VSTD200	B2821	2-21-94	12:42
06					
07					
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5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Lab File ID: B2853 BFB Injection Date: 3-4-94  
 Instrument ID: MSD-B BFB Injection Time: 08:39  
 GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.23
75	30.0 - 66.0% of mass 95	44.92
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.73
173	Less than 2.0% of mass 174	(0.00) 1
174	50.0 - 120.0% of mass 95	68.11
175	4.0 - 9.0 % of mass 174	(7.17) 1
176	93.0 - 101.0% of mass 174	(97.92) 1
177	5.0 - 9.0% of mass 176	(8.12) 2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBK01	N7V3336V	B2856	3-4-94	10:39
02	VBK0BS	N7V3336VS	B2857	3-4-94	11:27
03	C6538MS	JM3557VS	B2858	3-4-94	12:03
04	C6523MSD	JM3557VR	B2859	3-4-94	12:39
05	C6528	JM3557V	B2860	3-4-94	13:15
06	C6529	JM3558V	B2861	3-4-94	13:50
07	CL1-DS-06	JM3559V	B2862	3-4-94	14:26
08	CL1-DS-07	JM3560V	B2863	3-4-94	15:02
09	CL1-DS-07D	JM3561V	B2864	3-4-94	15:38
10	CL1-DS-08	JM3562V	B2865	3-4-94	16:15
11	CL1-DS-09	JM3563V	B2866	3-4-94	16:50
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6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Instrument ID: MSD-B Calibration Date(s): 02-21-94 02-21-94  
 Heated Purge: (Y/N) \_\_\_\_\_ Calibration Times: 1013 1242  
 GC column: DB624 ID: 0.53 (mm)

LAB FILE ID: \_\_\_\_\_ RRF10 = B2817 RRF20 = B2818  
 RRF50 = B2819 RRF100 = B2820 RRF200 = B2821

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	RSD
Chloromethane	0.456	0.457	0.469	0.499	0.515	0.479	5.56
Bromomethane	1.22	1.06	0.868	0.714	0.631	0.899	27.0
Vinyl Chloride	1.42	1.40	1.34	1.39	1.43	1.39	2.66
Chloroethane	0.771	0.850	0.715	0.587	0.436	0.693	26.6
Methylene Chloride	1.44	1.44	1.38	1.33	1.29	1.37	4.68
Acetone	0.651	0.463	0.516	0.383	0.260	0.455	32.1
Carbon Disulfide	4.18	4.28	4.10	4.12	4.02	4.14	2.32
1,1-Dichloroethene		1.52	1.34	1.30	1.12	1.33	10.7
1,1-Dichloroethane (trans)	2.74	2.86	2.76	2.81	2.76	2.79	1.90
1,2-Dichloroethane (total)	1.43	1.44	1.37	1.35	1.28	1.37	4.65
Chloroform	2.79	2.94	2.86	2.87	2.77	2.85	2.46
1,2-Dichloroethane	2.11	2.15	2.06	2.04	1.94	2.06	3.89
2-Butanone	0.021	0.023	0.022	0.032	0.029	0.025	19.7
1,1,1-Trichloroethane	0.485	0.500	0.478	0.471	0.438	0.475	4.89
Carbon Tetrachloride	0.471	0.499	0.472	0.476	0.477	0.469	5.65
Bromodichloromethane	0.633	0.650	0.665	0.664	0.607	0.646	3.95
1,2-Dichloropropane	0.423	0.453	0.441	0.441	0.413	0.435	3.76
cis-1,3-Dichloropropene	0.632	0.648	0.651	0.650	0.618	0.640	2.27
Trichloroethene	0.457	0.467	0.465	0.444	0.398	0.446	6.34
Dibromochloromethane	0.633	0.640	0.665	0.664	0.607	0.646	3.95
1,1,2-Trichloroethane	0.350	0.362	0.359	0.353	0.318	0.348	5.11
Benzene	0.786	1.01	0.979	0.943	0.851	0.955	6.58
trans-1,3-Dichloropropene	0.447	0.456	0.473	0.441	0.437	0.456	3.25
Bromoform	0.481	0.58	0.517	0.512	0.463	0.498	5.01
4-Methyl-2-Pentanone	0.138	0.136	0.131	0.146	0.132	0.136	4.47
2-Hexanone	0	0.304	0.242	0.356	0.362	0.318	17.5
Tetrachloroethene	0.567	0.578	0.561	0.552	0.498	0.551	5.67
1,1,2,2-Tetrachloroethane	0.498	0.537	0.535	0.516	0.479	0.513	4.88
Toluene	0.795	0.814	0.829	0.803	0.759	0.800	3.24
Chlorobenzene	1.07	1.11	1.10	1.09	1.01	1.08	3.85
Ethylbenzene	0.480	0.503	0.484	0.473	0.426	0.473	6.05
Styrene	0.979	1.01	0.993	0.936	0.823	0.948	7.02
Xylene (total) M+P	1.25	1.27	1.22	1.14	1.01	1.18	9.23
Toluene-d8	1.23	1.28	1.26	1.27	1.22	1.25	1.92
Bromofluorobenzene	0.959	0.996	0.983	0.971	0.917	0.965	3.15
1,2-Dichloroethane-d4	1.76	1.87	1.81	1.83	1.79	1.81	2.27
1,2-cis-Dichloroethylene	1.61	1.69	1.59	1.59	1.52	1.60	3.48

\* Compounds with required minimum RRF and maximum RSD values.  
 All other compounds must meet a minimum RRF of 0.010.

O-Xylene	0.582	0.626	0.595	0.570	0.488	0.572	8.97
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7A  
VOLATILE CONTINUING CALIBRATION CHECK

0343

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA  
 Instrument ID: MSD-B Calibration Date: 3-04-94 Time: 0902  
 Lab File ID: B2854 Init. Calib. Date(s): 2-22-94 2-22-94  
 Heated Purge: (Y/N) N Init. Calib. Times: 1055 1242  
 GC Column: P8-624 ID: 0.53 730 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	.4792	.3782		21.1	
Bromomethane	.8986	.7402	0.100	17.6	25.0
Vinyl Chloride	1.3950	1.208	0.100	13.9	25.0
Chloroethane	.6930	.6400		7.67	
Methylene Chloride	1.3747	1.6015		16.5	
Acetone	.4549	.5955		30.9	
Carbon Disulfide	4.1413	4.5022		8.71	
1,1-Dichloroethene	1.333	1.554	0.100	16.5	25.0
1,1-Dichloroethane	2.787	3.204	0.200	15.0	25.0
1,2-Dichloroethene (total)	1.376	1.572		14.2	
Chloroform	2.849	3.314	0.200	16.3	25.0
1,2-Dichloroethane	2.061	2.419	0.100	17.4	25.0
2-Butanone	.0253	.0452		78.6	
1,1,1-Trichloroethane	.4747	.5466	0.100	15.2	25.0
Carbon Tetrachloride	.4611	.5615	0.100	19.7	25.0
Bromodichloromethane	.6459	.7658	0.200	18.6	25.0
1,2-Dichloropropane	.4347	.5061		16.4	
cis-1,3-Dichloropropene	.6399	.7542	0.200	17.9	25.0
Trichloroethene	.4462	.586	0.300	20.7	25.0
Dibromochloromethane	.5667	.6971	0.100	23.0	25.0
1,1,2-Trichloroethane	.3484	.4219	0.100	21.0	25.0
Benzene	.9546	1.128	0.500	18.2	25.0
trans-1,3-Dichloropropene	.4564	.5458	0.100	19.6	25.0
Bromoform	.4982	.6145	0.100	23.3	25.0
4-Methyl-2-Pentanone	.1365	.1826		33.8	
2-Hexanone	.3177	.4495		47.5	
Tetrachloroethene	.5511	.6779	0.200	23.0	25.0
1,1,2,2-Tetrachloroethane	.6974	.8830	0.500	26.6	25.0
Toluene	.8002	.9373	0.400	17.1	25.0
Chlorobenzene	1.036	1.212	0.500	12.6	25.0
Ethylbenzene	.4734	.5651	0.100	17.4	25.0
Styrene	.4483	1.1279	0.300	18.9	25.0
Xylene (total)	1.177	1.376	0.300	16.9	25.0
Toluene-d3	1.253	1.402		11.9	
Bromofluorobenzene	.9655	1.089	0.200	12.8	25.0
1,2-Dichloroethane-d4	1.814	1.984		9.32	

All other compounds must meet a minimum RRF of 0.010.

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA  
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: \_\_\_\_\_  
 Lab File ID (Standard): B2854 Date Analyzed: 03-04-94  
 Instrument ID: MSD-B Time Analyzed: 0902  
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) \_\_\_\_\_

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	32513	9.61	140756	11.52	111542	17.52
UPPER LIMIT	65026	10.11	281512	12.02	223084	18.02
LOWER LIMIT	16256	9.11	70378	11.02	55771	17.02
EPA SAMPLE NO.						
01 VBLK01	32893	9.85	141751	11.76	114526	17.74
02 VBLK01BS	31450	9.60	138510	11.51	109271	17.51
03 C6528MS	31151	9.53	132232	11.45	107413	17.48
04 C6528MSD	30049	9.54	133455	11.45	106470	17.47
05 C652R	28341	9.52	126133	11.44	104523	17.47
06 C6529	27154	9.54	120054	11.45	99190	17.46
07 CLJ-DS-06	29935	9.54	128230	11.45	104204	17.47
08 CLJ-DS-07	31070	9.53	136386	11.46	113557	17.47
09 CLJ-DS-07D	27463	9.54	117331	11.45	100565	17.47
10 CLJ-DS-08	30185	9.52	131656	11.44	110193	17.47
11 CLJ-DS-09	30671	9.62	133946	11.45	109514	17.47
12						
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22						

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

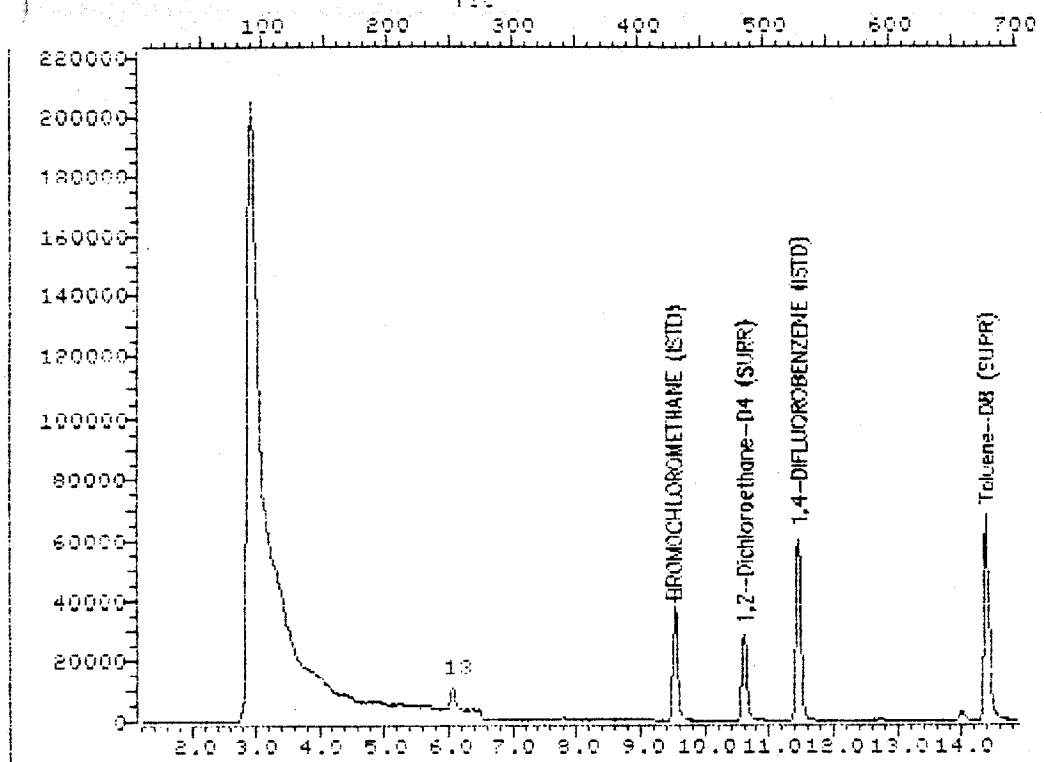
AREA UPPER LIMIT = +100% of internal standard area  
 AREA LOWER LIMIT = - 50% of internal standard area  
 RT UPPER LIMIT = +0.50 minutes of internal standard RT  
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

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



## TOTAL ION CHROMATOGRAM

File: B2860 35.0-260.0 amu. 15226N 06528 JH3557V, N7V3336, L:MS



Data File: &gt;B2860::D6

Quant Output File: ^B2860::QT

Name: 15226N 06528

Misc: JM3557V, N7V3336, L:M2, .200, 5:1,

Id File: IR304A::D4

Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

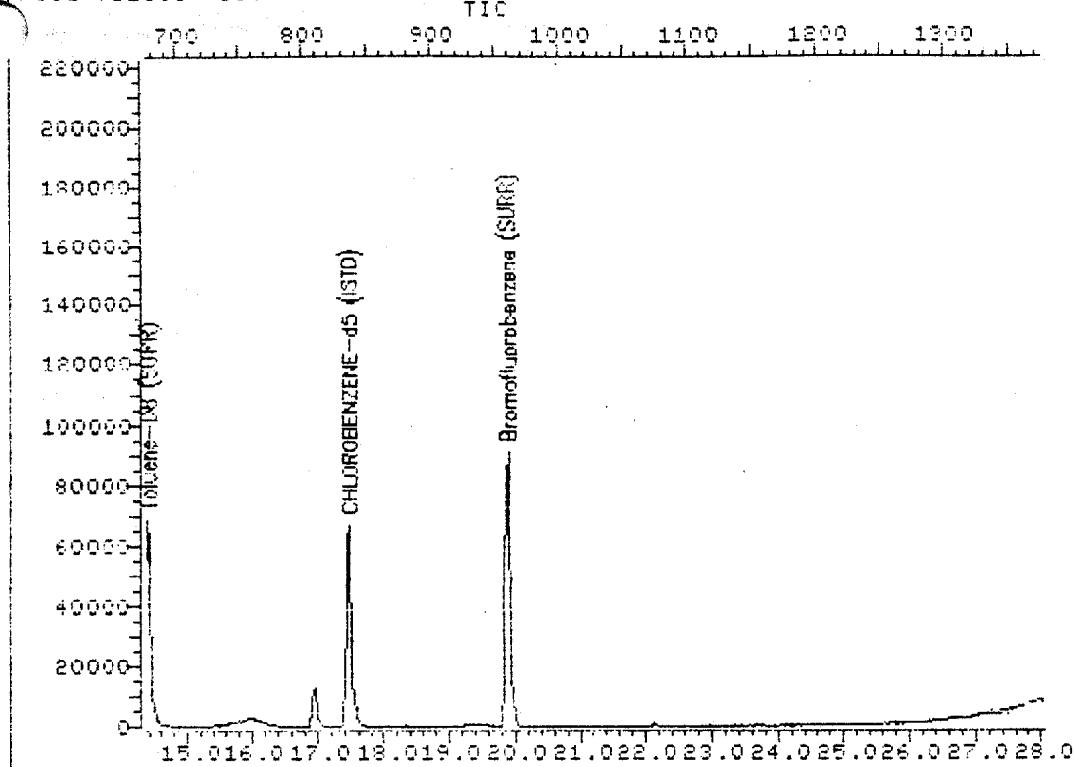
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Injected at: 940304 13:15

Page 1 of 2

## TOTAL ION CHROMATOGRAM

File B2860 35.0-260.0 amu. 15226N 06528 JH3557V,N7V3336,L:M2



Data File: &gt;B2860::D6

Quant Output File: ^B2860::QT

Name: 15226N 06528

Misc: JM3557V,N7V3336,L:M2,.200,5:1,

Id File: IR304A::D4

Title: MSD-B DR624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 13:44

Injected at: 940304 13:15

Page 2 of 2

9001C

0347

QUANT REPORT

Page 1

Operator ID: USERTSC

Quant Rev: 7

Quant Time: 940304 13:44

Output File: ^P2860::QT

Injected at: 940304 13:15

Data File: >P2860::D6

Dilution Factor: 1.00000

Name: 15226N C6528

Misc: JM3557U,N7U3336,L:M2,.200,5:1,

ID File: IB304A::D4

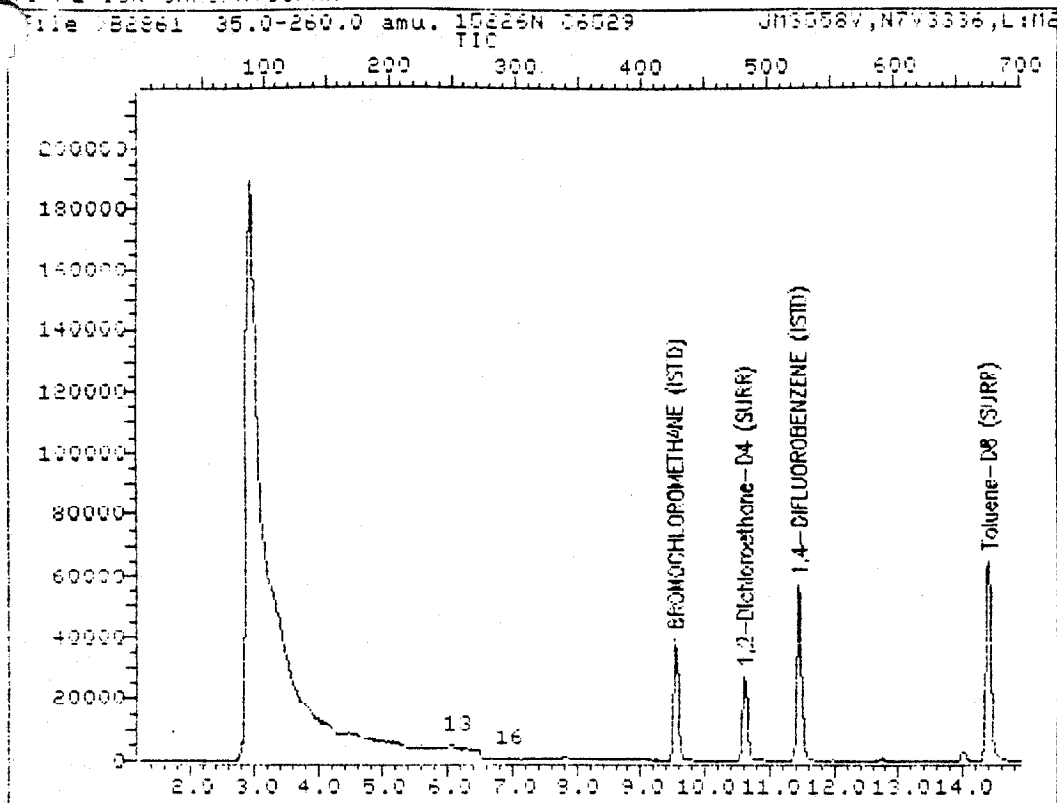
Title: MSD-R DB624 0.53mmX25m UNLATTLES BY GC/MS

Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.52	128.0	28341	50.00	ug/l	94
13) Acetone	6.07	43.0	24383	74.11	ug/l	82
26) 1,2-Dichloroethane-D4 (SURR)	10.62	65.0	52655	46.83	ug/l	84
29) *1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	126133	50.00	ug/l	89
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0	104523	50.00	ug/l	91
49) Toluene-D8 (SURR)	14.78	98.0	139341	47.56	ug/l	82
60) Bromofluorobenzene (SURR)	19.89	95.0	105054	46.14	ug/l	89

\* Compound is ISTD

## TOTAL ION CHROMATOGRAM



Data File: &gt;B2961::D6

Quant Output File: ^B2961::QT

Name: 15226N 06029

Misc: JM3558V,N703336,L:M2,.200,5:1,

Id File: I8304A::D4

Title: MSD-B DR624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

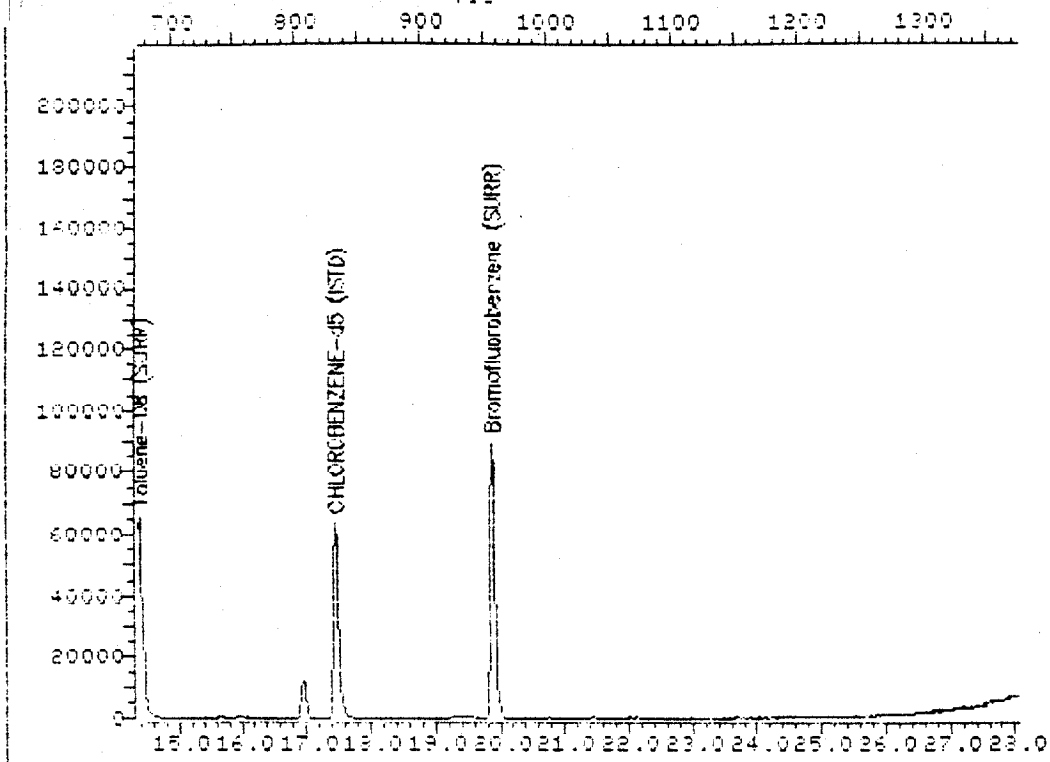
Operator ID: USERTSC

Quant Time: 940304 14:20

Injected at: 940304 13:50

Page 1 of 2

## TOTAL ION CHROMATOGRAM

File: B2861 35.0-260.0 amu. 15226N C6529 JMS558V,N7U3336,L:M2  
TIC

Data File: >B2861::D4 Quant Output File: ^B2861::QT  
 Name: 15226N C6529  
 Misc: JMS558V,N7U3336,L:M2,.200,5:1,

Id File: IB304A::D4  
 Title: MSD-B DR624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Operator ID: USERTSC  
 Quant Time: 940304 14:20  
 Injected at: 940304 13:50

QUANT REPORT

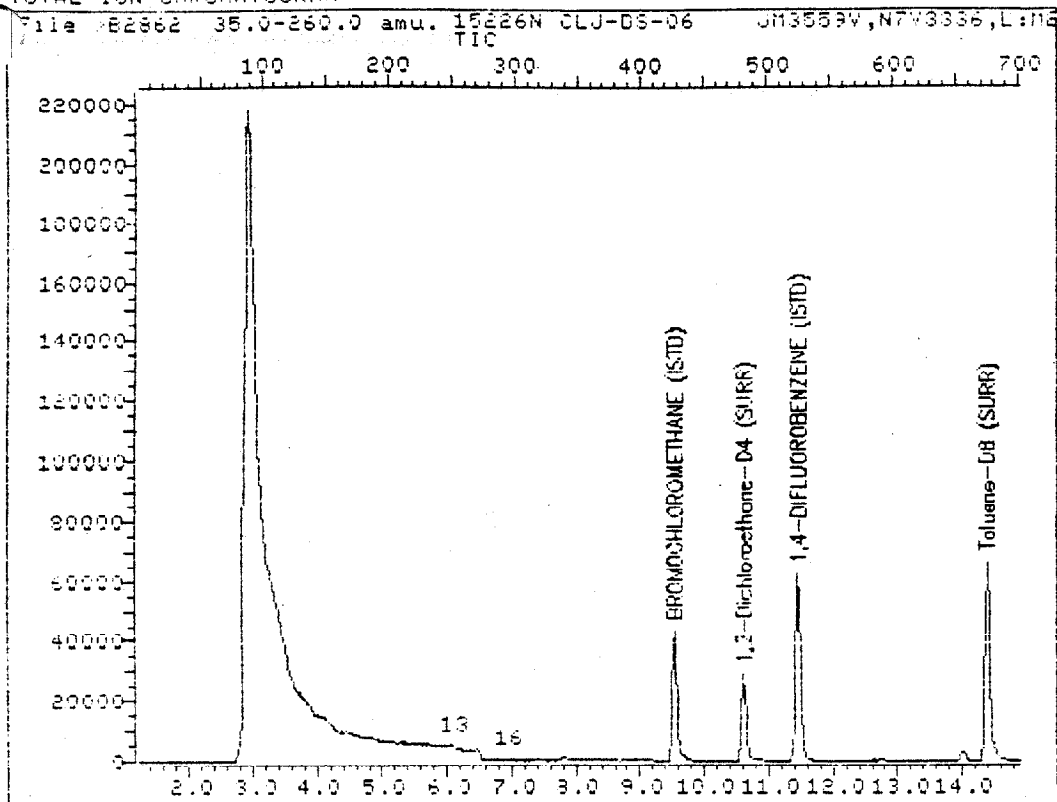
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 Output File: ^B2861::QT                      Injected at: 940304 13:50  
 Data File: ^B2861::D6                      Dilution Factor: 1.00000  
 Name: 15226N D6529  
 Misc: JM3558U,N7U3336,L:M2,.000,5:1,

ID File: IB304A::D4  
 Title: MSD-R DB624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.54	128.0		27154	50.00	ug/l	93
13) Acetone	6.06	43.0		4679	14.84	ug/l	82
16) Methylene chloride	6.86	84.0		1379	1.59	ug/l	76
24) 1,2-Dichloroethane-D4 (SUPP)	10.41	65.0		50249	46.65	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0		120054	50.00	ug/l	80
48) *CHLOROBENZENE-H5 (ISTD)	17.46	117.0		99190	50.00	ug/l	90
49) Toluene-D8 (SUPP)	14.40	92.0		132746	47.75	ug/l	82
60) Bromofluorobenzene (SUPP)	19.08	95.0		101196	46.83	ug/l	98

\* Compound is ISTD

## TOTAL ION CHROMATOGRAM



Data File: &gt;B2862::D6

Quant Output File: ^B2862::QT

Name: 15226N CLJ-DS-06

Misc: JM3559V,N7V3336,L:M2,.200,5:1,

Id File: I8304A::D4

Title: MSD-8 DB624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

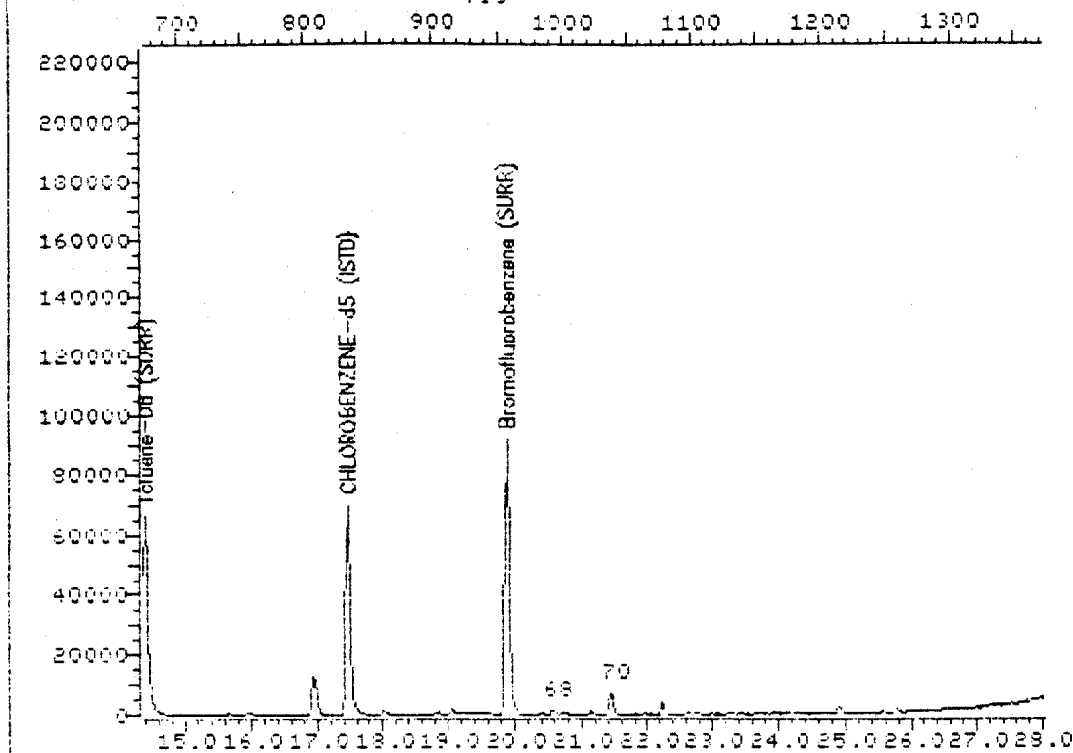
Quant Time: 940304 14:56

Injected at: 940304 14:26

Page 1 of 2

## TOTAL ION CHROMATOGRAM

File: ^B2862 35.0-260.0 amu. 15226N CLJ-DS-06 JM3559U,N7U3336,L:M2 TIC



Data File: ^B2862::D6

Quant Output File: ^B2862::QT

Name: 15226N CLJ-DS-06

Misc: JM3559U,N7U3336,L:M2,.200,5:1,

Id File: IB304A::D4

Title: MSD-8 DB604 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 14:56

Injected at: 940304 14:26

Page 2 of 2



QUANT REPORT

Operator ID: USERTSC  
Output File: ^B2862::QT  
Data File: >B2862::D6  
Name: 15226N CIJ-DS-06  
Misc: JM3559U,N7U3336,L:M2,.200,5:1,

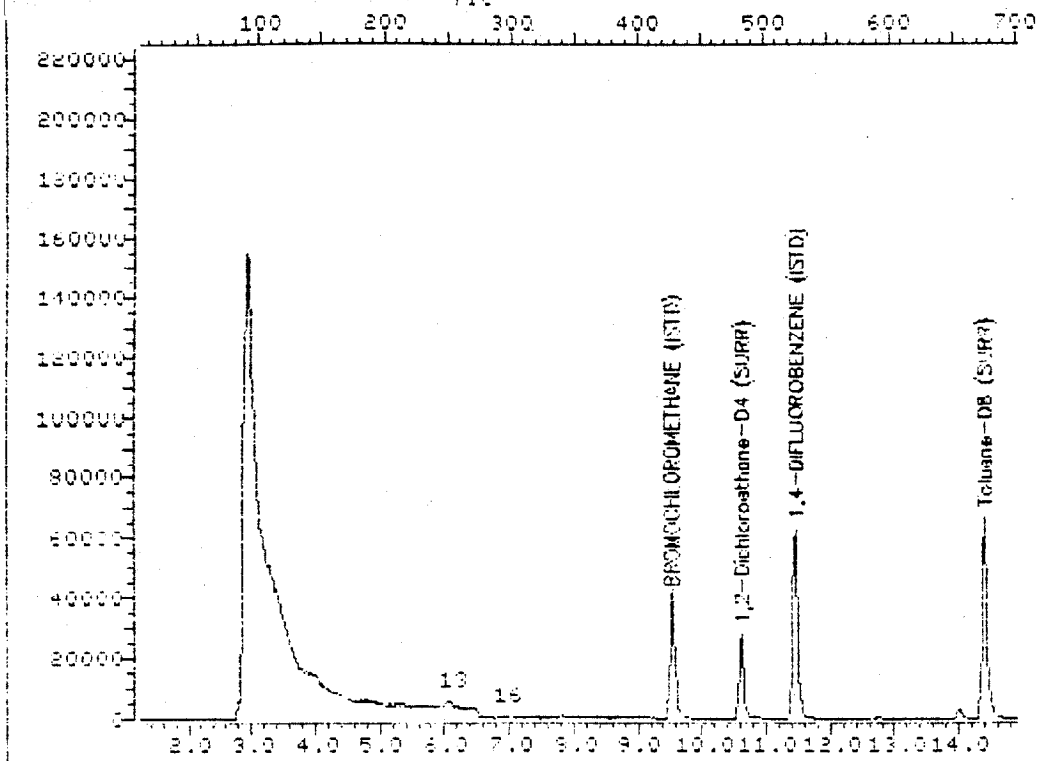
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                  Injected at: 940304 14:26  
                  Dilution Factor: 1.00000

ID File: IB304A::D4  
Title: MSD-8 DB624 0.53mmX25m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q	ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.54	128.0	-	29935	50.00	ug/l	96
13) Acetone	6.85	43.0	-	2347	6.75	ug/l	84
16) Methylene chloride	6.88	84.0	-	1292	1.35	ug/l	79
26) 1,2-Dichloroethane-D4 (SUPP)	10.61	45.0	-	52850	44.50	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0	-	128830	50.00	ug/l	90
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0	-	109849	50.00	ug/l	92
49) Toluene-D8 (SUPP)	14.78	98.0	-	139236	45.22	ug/l	82
60) Bromofluorobenzene (SUPP)	19.89	95.0	-	106029	44.31	ug/l	97
68) 1,3,5-Trimethylbenzene	20.57	105.0	-	4719	1.29	ug/l	50
70) 1,2,4-Trimethylbenzene	21.45	105.0	-	10588	2.80	ug/l	75

Compound is ISTD

## TOTAL ION CHROMATOGRAM

File: B2983 35.0-260.0 amu. 15226N CLJ-06-07 JMS360V,N773336,L:MG  
TIC

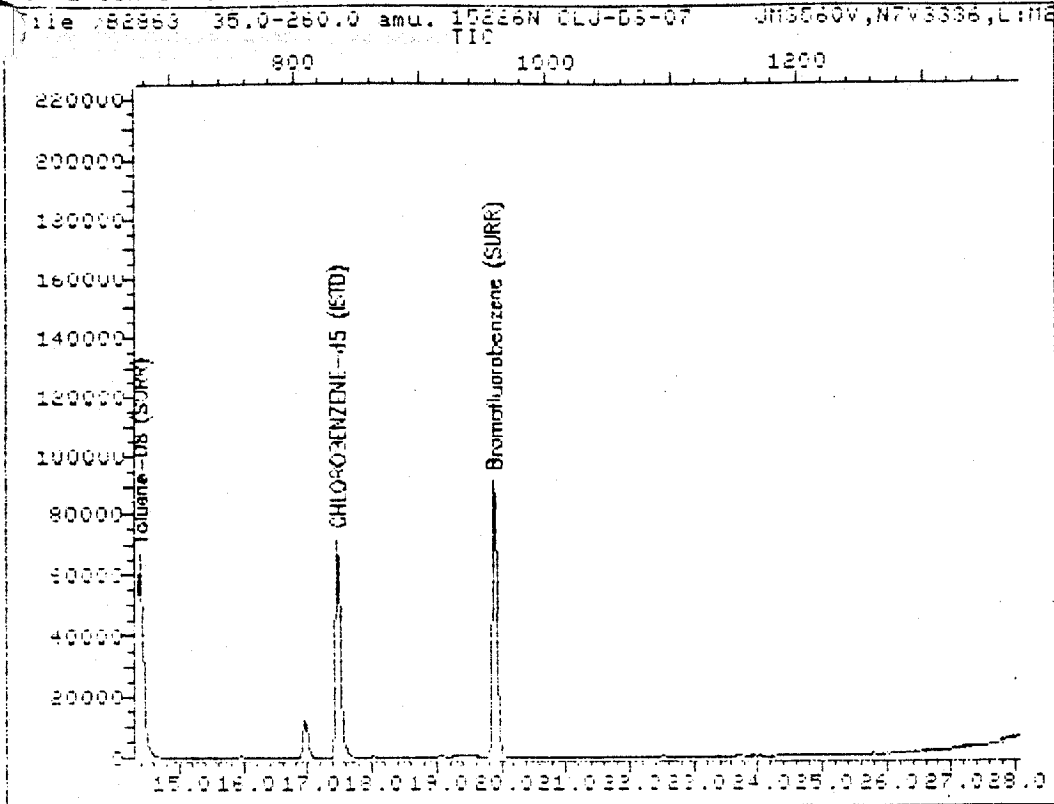
Data File: >B2983::D4 Quant Output File: ^B2983::QT  
 Name: 15226N CLJ-06-07  
 Misc: JMS360V,N773336,L:MG,.200,5:1,

Id File: B2983A::D4  
 Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Operator ID: USERTSC  
 Quant Time: 940304 15:32  
 Injected at: 940304 15:02

Page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >82863::06                      Quant Output File: >82863::QT  
Name: 15226N CLJ-05-07  
Misc: JM3060V,N7V3336,L:MS,.200,5:1,

Id File: IR304A::04  
Title: MSD-R    DP604    0.53mmX75m    HP1 ATILES BY GC/MS  
Last Calibration: 940304 10:00

Operator ID: HRFRTAC  
Quant Time: 940304 15:32  
Injected at: 940304 15:02

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QUANT REPORT

Page 1

Operator ID: USERTSC  
Output File: >B2863:QT  
Data File: >B2863:06  
Name: 15026N CLJ-DS-07  
Misc: JM3560U,N703336,L:M2,.200,5:1,

Quant Rev: 7      Quant Time: 940304 15:32  
                  Injected at: 940304 15:02  
Dilution Factor: 1.00000

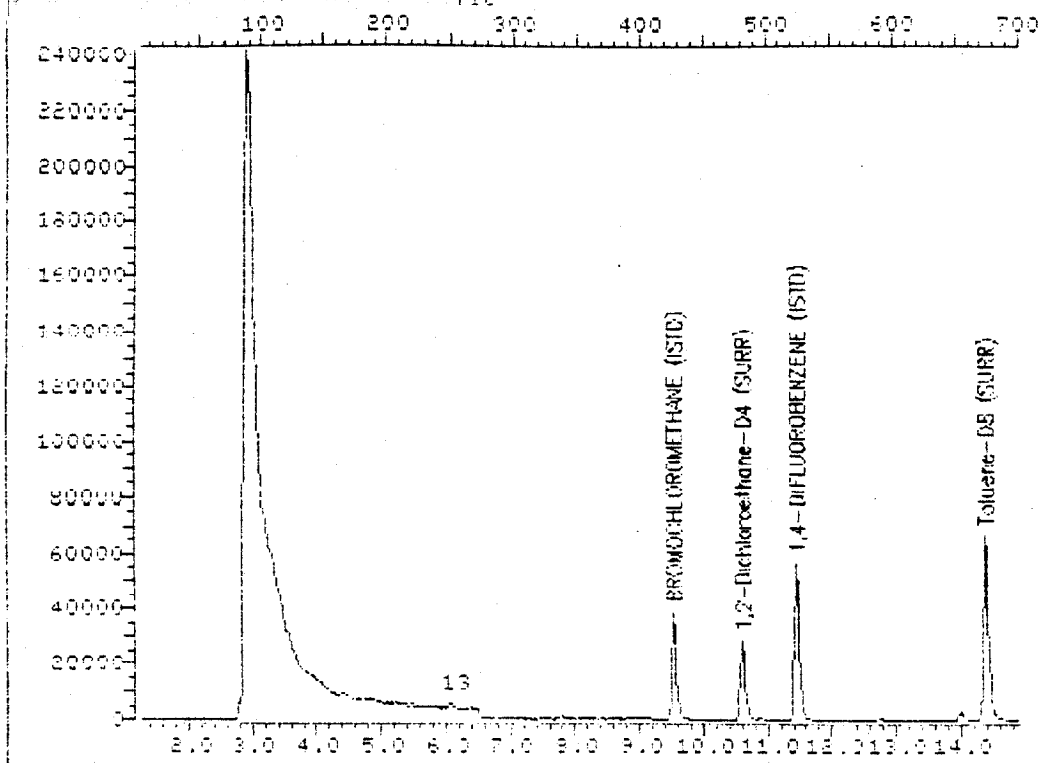
ID File: IB304A::D4  
Title: MSD-9    DB604    0.53mmX75m    MCLATTLES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.53	128.0	31070	50.00	ug/l	92
13) Acetone	6.07	43.0	4575	12.68	ug/l	89
16) Methylene chloride	6.89	84.0	1164	1.17	ug/l	95
26) 1,2-Dichloroethane-D4 (SUPP)	10.42	65.0	53092	43.07	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	136386	50.00	ug/l	80
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0	113557	50.00	ug/l	91
49) Toluene-D8 (SUPP)	14.79	98.0	138364	43.47	ug/l	82
60) Bromofluorobenzene (SUPP)	19.89	96.0	105957	42.79	ug/l	96

\* Compound is ISTD

## TOTAL ION CHROMATOGRAM

File: 82864 35.0-250.0 amu. 150266N CLJ-05-070 JM3561V,N793336,LIMS



Data File: &gt;82864::D6 Quant Output File: &gt;82864::QT

Name: 150266N CLJ-05-070

Misc: JM3561V,N793336,L:MS,.200,5:1,

Id File: 18304A::D4

Title: MS0-B DR424 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

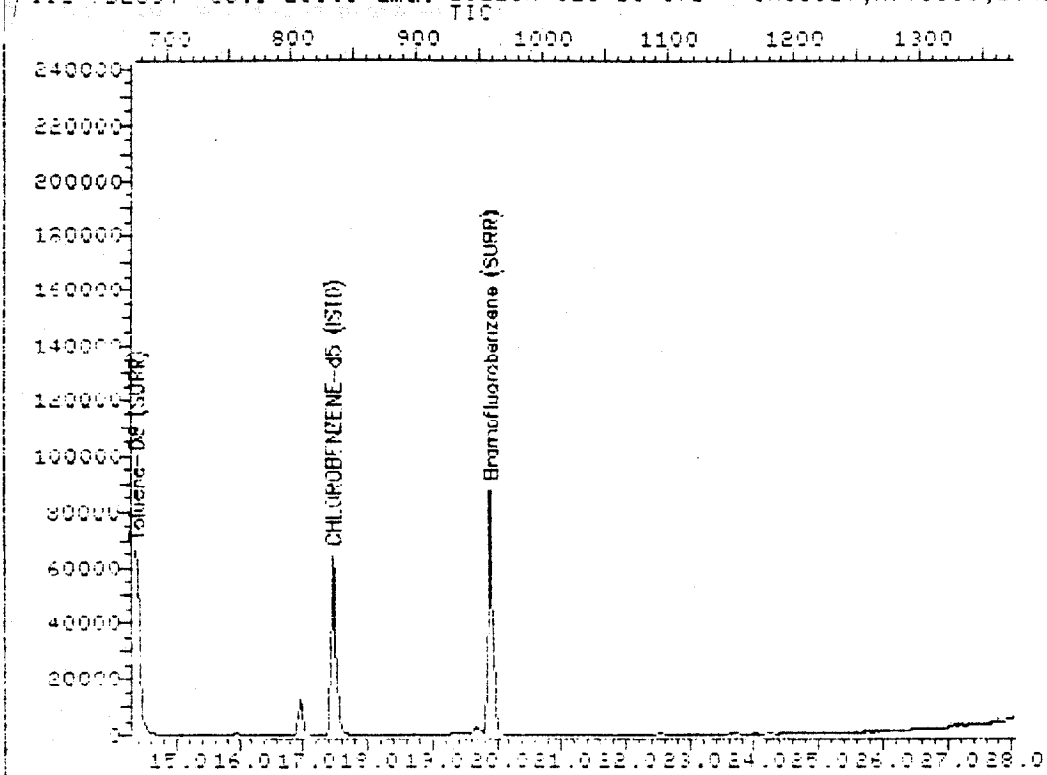
Quant Time: 940304 16:08

Injected at: 940304 15:38

Page 1 of 2

## TOTAL ION CHROMATOGRAM

File: 82854 35.0-260.0 amu. 15226N CLJ-06-07D JMS561V,N7V3336,L:MS



Data File: &gt;B2864::D4

Quant Output File: ^B2864::QT

Name: 15226N CLJ-06-07D

Misc: JMS561V,N7V3336,L:M2,.200,5:1,

Id File: I8302A::D4

Title: MS0-B DR424 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 16:08

Injected at: 940304 15:38

Page 2 of 2

QUANT REPORT

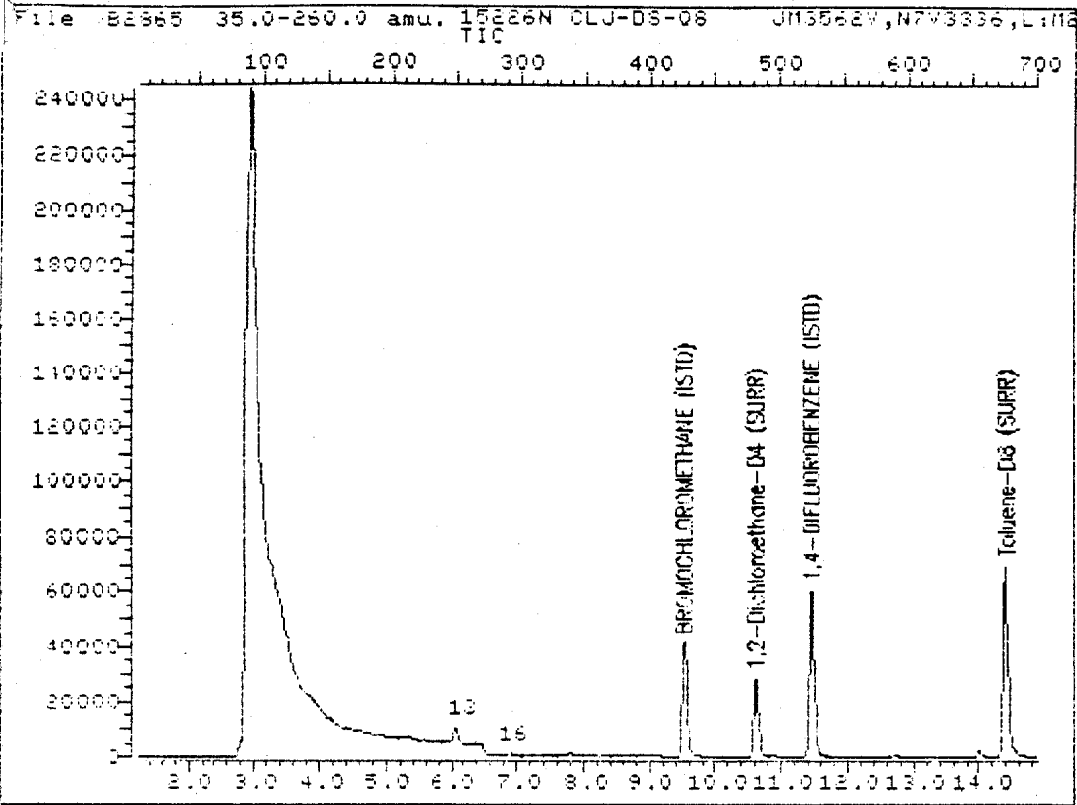
Operator ID: USERTSC                      Quant Rev: 7                      Quant Time: 940304 16:09  
 Output File: ^B2864::QT                      Injected at: 940304 15:38  
 Data File: >B2864::D6                      Dilution Factor: 1.00000  
 Name: 15226N DLJ-DS-070  
 Misc: JM7561U,N7U7336,L:MO,.200,5:1,

ID File: IP304A::D4  
 Title: MOD-9 DR624 0.53mmX75m VOLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.54	128.0	27463	50.00	ug/l	94
17) Acetone	6.07	43.0	4236	13.29	ug/l	87
26) 1,2-Dichloroethane-D4 (SUPP)	10.62	65.0	51894	47.63	ug/l	89
29) *1,4-DIFLUOROBENZENE (ISTD)	11.46	114.0	117331	50.00	ug/l	85
48) *CHLOROBENZENE-d5 (ISTD)	17.47	117.0	100565	50.00	ug/l	94
49) Toluene-D8 (SUPP)	14.78	98.0	134143	47.59	ug/l	83
40) Bromofluorobenzene (SUPP)	19.91	95.0	103170	47.09	ug/l	91

\* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >82865::D6 Quant Output File: ^82865::QT  
Name: 15226N CLJ-DS-08  
Misc: JM3562V,N7V3336,L:M2,.200,5:1,

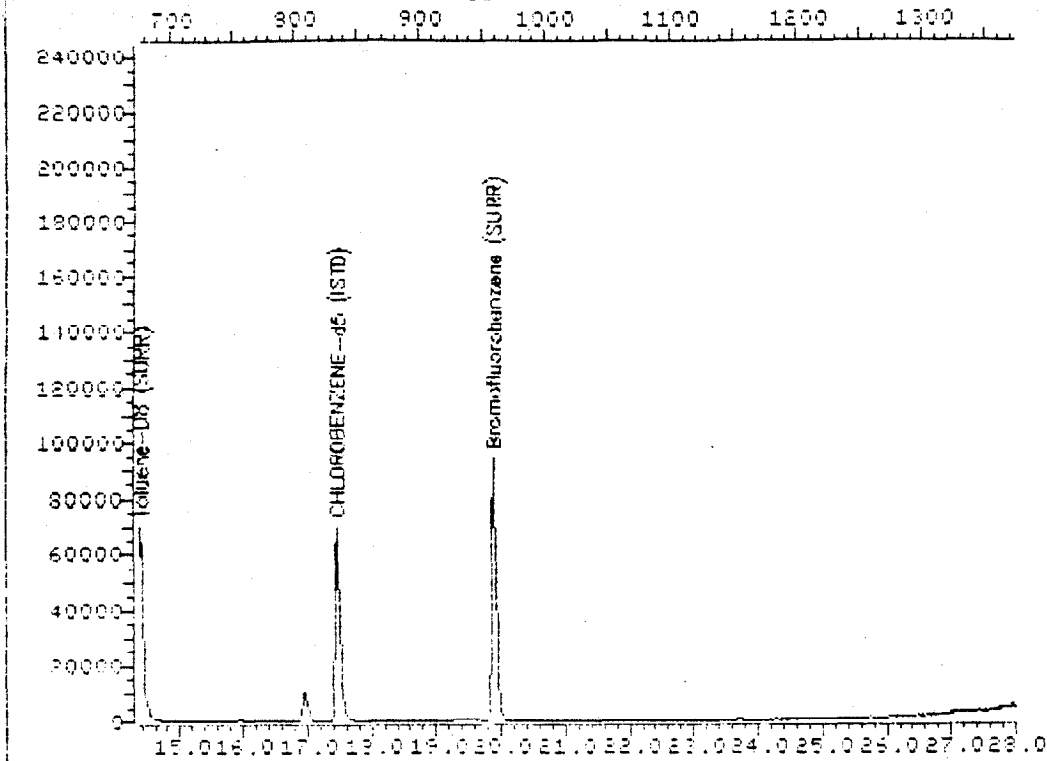
Id File: IB304A::D4  
Title: MSD-B DB624 0.53mmX75m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Operator ID: USERTSC  
Quant Time: 940304 16:43  
Injected at: 940304 16:15



## TOTAL ION CHROMATOGRAM

File &gt;B2865 35.0-260.0 amu. 15226N CLJ-DS-08 JM3562U,N7V3336,L:MS



Data File: &gt;B2865::D6

Quant Output File: ^B2865::QT

Name: 15226N CLJ-DS-08

Misc: JM3562U,N7V3336,L:MS,.200,5:1,

Id File: IR304A::D4

Title: MSD-B DR624 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 16:43

Injected at: 940304 16:15

Page 2 of 2

900

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QUANT REPORT

Page 1

Operator ID: USERTSC                      Quant Rev: 7                      Quant Time: 940304 16:43  
 Output File: >82865::QT                      Injected at: 940304 16:15  
 Data File: >82865::D6                      Dilution Factor: 1.00000  
 Name: 15026N CLJ-DS-08  
 Misc: JM3562U,N7U3336,L:M2,.000,5:1,

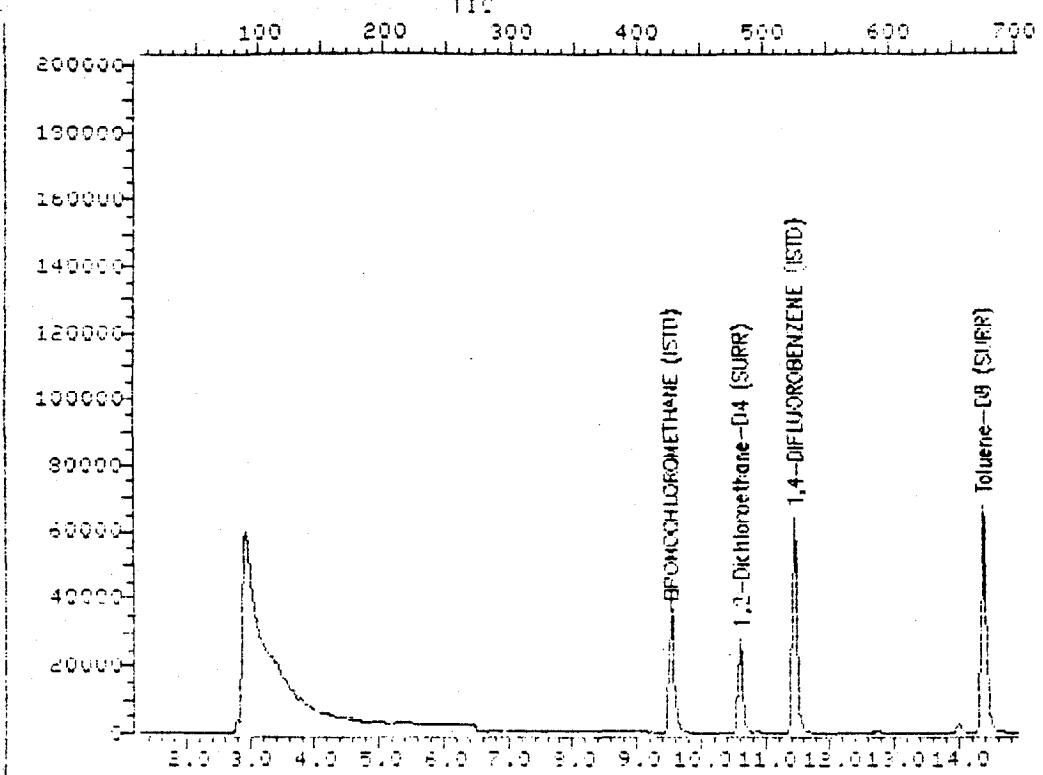
ID File: IR304A::D4  
 Title: MSD-R 08624 0.53mmX75m MQLATILES BY GC/MS  
 Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.52	128.0	30185	50.00	ug/l	90
13) Acetone	6.07	43.0	17477	49.87	ug/l	82
16) Methylene chloride	6.87	84.0	1753	1.81	ug/l	79
24) 1,2-Dichloroethane-D4 (SUPP)	10.40	65.0	54357	45.39	ug/l	91
29) *1,4-DIFLUOROBENZENE (ISTD)	11.44	114.0	131656	50.00	ug/l	92
48) *CHLOROBENZENE-R5 (ISTD)	17.47	117.0	110193	50.00	ug/l	91
49) Toluene-D8 (SUPP)	14.39	98.0	141518	45.82	ug/l	83
60) Bromofluorobenzene (SUPP)	19.09	95.0	106110	44.20	ug/l	98

\* Compound is ISTD

## TOTAL ION CHROMATOGRAM

File &gt;B2366 35.0-260.0 amu. 15226N CLJ-03-09 JM3563U,N7V3336,L:M2



Data File: &gt;B2366::D6

Quant Output File: &gt;B2366::QT

Name: 15226N CLJ-03-09

Misc: JM3563U,N7V3336,L:M2,.200,5:1,

Id File: IR304A::D4

Title: MS0-B DB424 0.53mmX75m VOLATILES BY GC/MS

Last Calibration: 940304 10:00

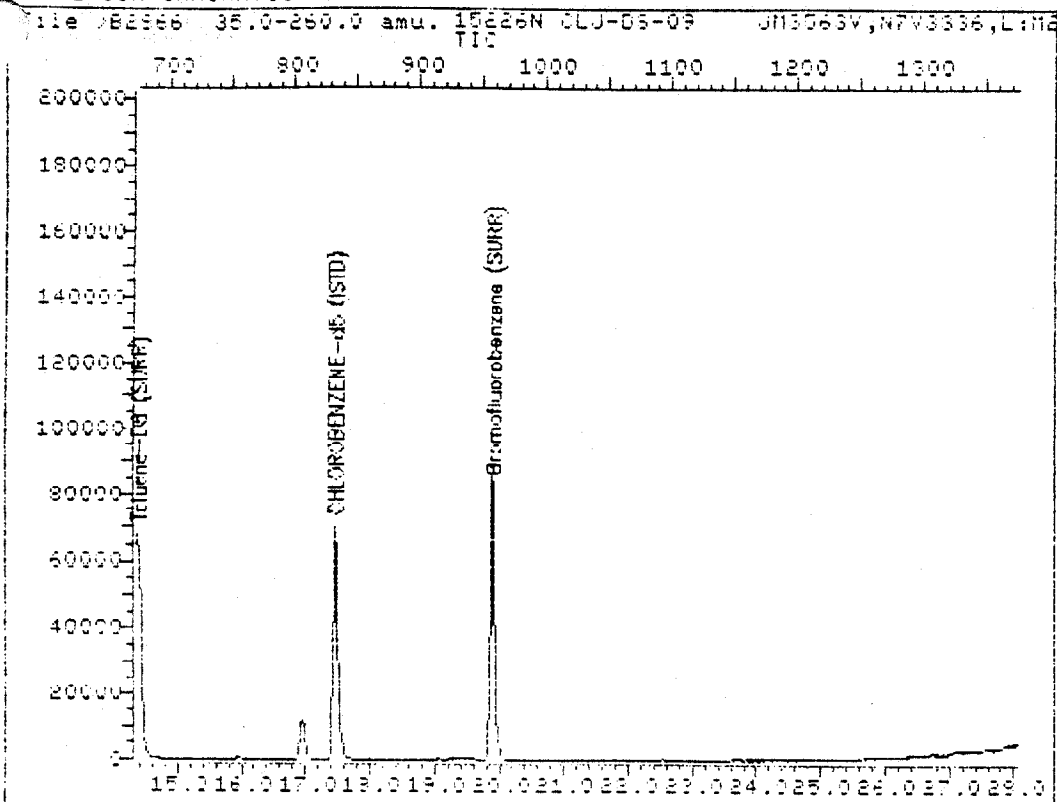
Operator ID: USERTSC

Quant Time: 940304 17:20

Injected at: 940304 16:50

Page 1 of 2

## TOTAL ION CHROMATOGRAM



Data File: &gt;B2866::D4

Quant Output File: &gt;B2866::QT

Name: 15226N CLJ-05-09

Misc: JM3563U,N7V3336,L:M2,.200,5:1,

Id File: I9304A::D4

Title: MSD-B DB624 0.53mmX75m VOTATHLES BY GC/MS

Last Calibration: 940304 10:00

Operator ID: USERTSC

Quant Time: 940304 17:20

Injected at: 940304 16:50

Page 2 of 2

9211 0365

QUANT REPORT

Operator ID: USERTSC  
Output File: 082866::QT  
Data File: 082866::D6  
Name: 15226N QIJ-05-09  
Misc: JM3563U,N7U3336,L:M2,.200,5:1,

Quant Rev: 2      Quant Time: 940304 17:20  
                  Injected at: 940304 16:50  
                  Dilution Factor: 1.00000

ID File: IR304A::D4  
Title: MSD-8 08624 0.53mmX25m VOLATILES BY GC/MS  
Last Calibration: 940304 10:00

Compound	R.T.	Q ion	Area	Conc	Units	q
1) *BROMOCHLOROMETHANE (ISTD)	9.52	128.0	30671	50.00	ug/l	88
26) 1,2-Dichloroethane-D4 (SURR)	10.41	45.0	52714	43.32	ug/l	87
29) *1,4-DIFLUOROBENZENE (ISTD)	11.45	114.0	133946	50.00	ug/l	90
48) *CHLOROBENZENE-D5 (ISTD)	17.47	117.0	109514	50.00	ug/l	89
49) Toluene-D8 (SURR)	14.38	98.0	136309	44.40	ug/l	82
60) Bromofluorobenzene (SURR)	19.91	95.0	101345	42.48	ug/l	85

\* Compound is ISTD