

CLOSURE REPORT ADDENDUM

FACILITY ID. NO. 9-089072
UST #74

APRIL 3, 1998

NOTE: PLEASE INSERT THIS ADDENDUM INTO THE CLOSURE REPORT
SUBMITTED TO THE USTMP IN DECEMBER 1996

U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
CONTRACT DACA21-92-D-0002, DELIVERY ORDER #0101

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1280, TANK 74
FACILITY ID NUMBER: 9-089072
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

NOVEMBER 1996

P.O. Box 1386, Lake City, Florida 32056-1386
Phone: (904) 755-1196 Fax: (904) 758-9050

US Army Corps of Engineers
Delivery Order 0101
Ft. Stewart, Hinesville, Georgia
Underground Storage Tank Removal and Closure

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Prepared by

Anderson Columbia Environmental, Inc.

TAB 1

GEORGIA CLOSURE REPORT
FORMS

CLOSURE REPORT ADDENDUM
UST #74, FACILITY ID. NO. 9-089072

CLOSURE REPORT FORM

After review of daily logs, the Installation's contractor, Anderson Columbia believes soil was excavated from this site and disposed of at Kedesh, Inc., Highway 84, Ludowici, Georgia 31316.

The Installation has revised the Closure Report Form due to a noted discrepancy regarding manifests previously reported as "not applicable" for a site which disposed of excavated soil. See Tab 9, this Addendum, regarding manifests.

Please insert the revised Closure Report Form into the Closure Report submitted to the USTMP in December 1996.

Georgia Department of Natural Resources

Environmental Protection Division

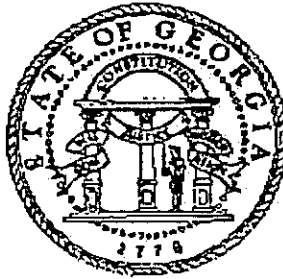
Underground Storage Tank Management Program

4244 International Parkway, Suite 104, Atlanta, Georgia 30354

Lonice C. Barrett, Commissioner

Harold F. Reheis, Director

(404) 362-2687



CLOSURE REPORT FORM

Please complete the following form, include the listed items and check all of the boxes that apply. This form can be used as a Closure Report, provided documentation is attached when specified, to substantiate the information on this form, as outlined in the guidance document "So You Want to Close an UST?" (GUST-9). If one of the items does not apply to your tank closure, please provide a written explanation for the omission. If soil was excavated and disposed of, be sure to complete the applicable sections and attach the proper disposal documents.

1. Owner of UST System:

Name: US Army/Ft. Stewart
Phone Number: (912) 767-2010
Company: US Army
Address: Cdr. 3rd Inf. Div. (Mech.), Attn: AFZP-DEV, Bldg. 1139
Ft. Stewart GA 31314-5000
(city) (state) (zip code)

I hereby certify that the information contained in this Closure Report and in all the attachments is true, accurate, and complete, and the Closure Report satisfies all criteria and requirements of Rule 391-3-15-.09 of the Georgia Rules for Underground Storage Tank Management.

Signature: Blale F. Kiefer Date: 3 April 98

2. UST System Site Location:

Facility Name: Ft. Stewart, GA FAC 1280
Street Address: FAC 1280 (UST # 74)
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089072

3. Contract Certification:

I hereby certify that I have performed or supervised the work detailed in this report, and have examined and am familiar with the information submitted in this and all attached documents. The submitted information is, to the best of knowledge, true, accurate, complete, and in accordance with the Georgia Rules for Underground Storage Tank Management, revised February, 1995.

Name: David F. Black
Address: PO Box 1386 Lake City, Florida 32056

Signature: David F. Black Date: 11/6/96

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

☒ Not Applicable

5. Site Map: Include the following items on an attached site map:

REFER TO TAB 5

- Tank Pit Area
- Sewer Lines (if present)
- Sample Locations (with sample numbers and depths)
- Scale: 1 in = 20 feet
- Piping Trenches
- Water Lines
- North Arrow
- Dispensers
- Tanks with thier ID#s, corresponding to the Notification Form 7530-1

6. Tank Removal

- Date of Removal: 23-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
74	2500	Waste Oil

(This information should correspond to the 7530-1 Form.)

- Attach Amended Notification Form 7530-1
- Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

REFER TO TAB 6

7. Laboratory Analytical Data:

The following items must be included on attached copies

REFER TO TAB 7

- Laboratory Method
- Date of Sampling
- Date of Analysis
- Detection Limits
- Signed Chain of Custody
- Quality Control Data

8. Regulated Substance Released:

Check the applicable box(es).

☐ Gasoline ☐ Diesel ☐ Kerosene ☒ Used Oil ☐ Other _____

9. Excavation and Treatment/Disposal of Contaminated Soil: SEE Addendum - TAB 9

- Attach Soil Disposal Manifests
- Volume of Soil Excavated (less than 6 ft from USTs and 4 ft from piping or dispenser islands)

_____ Tons OR 10 yd³ (estimated)

☐ Not Applicable

10. Local Water Resources: Attach documentation only if Table B Soil Threshold Values and/or in-Stream Water Quality Standards are proposed for soil disposal, or No Further Action Required status. Check the applicable box(es).

☐ Drinking water supplies are NOT located in:
High or average groundwater pollution susceptibility area:*
Public water systems within 2.0 miles and
Non-public water systems within 0.5 mile

OR

Low groundwater pollution susceptibility area:*
Public water systems within 1.0 mile and
Non-public water systems within 0.25 mile

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

☐ Streams, Lakes, and Ponds:
Distance to closest surface water body: _____ mile(s) or _____ feet

☒ Not Applicable

SEE TAB 7, 10

11. Conclusions or Recommendations: Choose one.

☐ Clean Closure, thus No Further Action is Required.

☒ Soil Excavated within the Limits Specified in Question 7 (GUST-9) and Transported to
an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

Georgia Department of Natural Resources

Environmental Protection Division
Underground Storage Tank Management Program
4244 International Parkeay, Suite 104, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404) 362-2687



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1. Owner of UST System:

Name: US Army/Ft. Stewart
Phone Number: (912) 767-2010/1234
Company: US Army
Address: Cdr. 3rd Inf. Div. (Mech.), Attn: AFZP-DEV, Bldg. 1139
Ft. Stewart GA 31314-5000
(city) (state) (zip code)

I hereby certify that the information contained in this Closure Report and in all the attachments is true, accurate, and complete, and the Closure Report satisfies all criteria and requirements of Rule 391-3-15-.09 of the Georgia Rules for Underground Storage Tank Management.

Signature: _____ Date: _____

2. UST System Site Location:

Facility Name: Ft. Stewart, GA FAC 1280
Street Address: FAC 1280
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089072

3. Contract Certification:

I hereby certify that I have performed or supervised the work detailed in this report, and have examined and am familiar with the information submitted in this and all attached documents. The submitted information is, to the best of knowledge, true, accurate, complete, and in accordance with the Georgia Rules for Underground Storage Tank Management, revised February, 1995.

Name: David F. Black
Address: PO Box 1386 Lake City, Florida 32056

Signature: _____

Date: 11/6/96

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

☒ Not Applicable

5. Site Map: Include the following items on an attached site map:

REFER TO TAB 5

- Tank Pit Area
- Sewer Lines (if present)
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REFER TO TAB 7

- Laboratory Method
- Detection Limits
- Date of Sampling
- Signed Chain of Custody
- Date of Analysis
- Quality Control Data

8. Regulated Substance Released: Check the applicable box(es).

☐ Gasoline ☐ Diesel ☐ Kerosene ☒ Used Oil ☐ Other _____

9. Excavation and Treatment/Disposal of Contaminated Soil:

- Attach Soil Disposal Manifests
- Volume of Soil Excavated (less than 6 ft from USTs and 4 ft from piping or dispenser islands)

_____ Tons OR _____ yd³

☒ Not Applicable

10. Local Water Resources: Attach documentation only if Table B Soil Threshold Values and/or in-Stream Water Quality Standards are proposed for soil disposal, or No Further Action Required status. Check the applicable box(es).

☐ Drinking water supplies are NOT located in:
High or average groundwater pollution susceptibility area:*
Public water systems within 2.0 miles and
Non-public water systems within 0.5 mile

OR

Low groundwater pollution susceptibility area:*
Public water systems within 1.0 mile and
Non-public water systems within 0.25 mile

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

☐ Streams, Lakes, and Ponds:
Distance to closest surface water body: _____ mile(s) or _____ feet

☒ Not Applicable

SEE TAB 7, 10

11. Conclusions or Recommendations: Choose one.

☐ Clean Closure, thus No Further Action is Required.

☒ Soil Excavated within the Limits Specified in Question 7 (GUST-9) and Transported to an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

TAB 4

SITE PHOTOGRAPHS



Photo 1. Excavating the Tank 74 pit.



Photo 2. Tank 74 being uncovered.



Photo 3. Tank 74 being removed from the excavation pit.

TAB 5

SITE MAPS

CLOSURE REPORT ADDENDUM
UST #74, FACILITY ID. NO. 9-089072

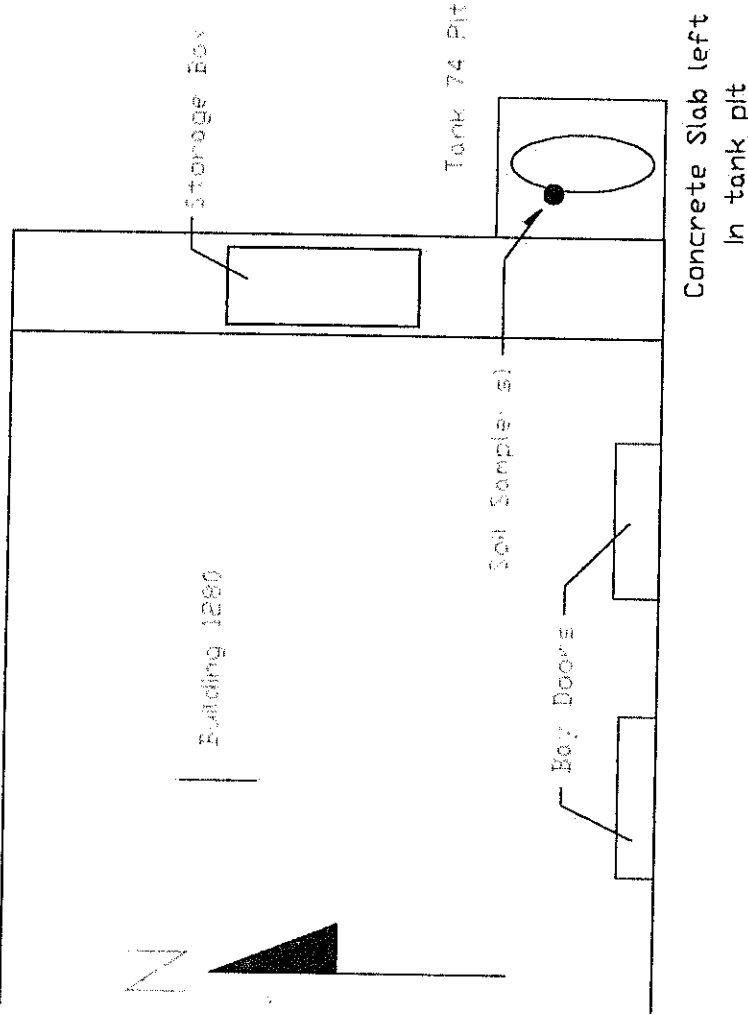
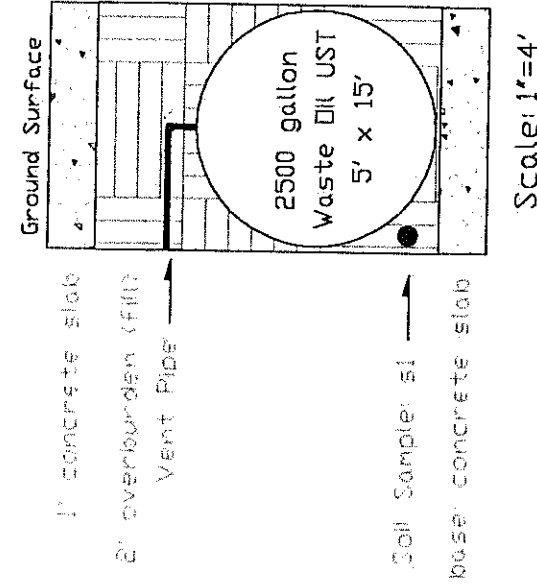
SITE MAP
TAB 5

A site map that includes the location of the tank pit area, sewer lines, water lines, estimated piping, approximate sampling location, scale, north arrow and tank identification number is provided as Figure (Map) 1.

A typical detail of a 2500 gallon waste oil tank is provided as Figure 2 which indicate dispensers were not used with this tank. In addition, a typical sample location has been included to depict samples were collected approximately two (2) feet below the bottom of the UST at a depth of 11.5 to 12 feet.

Please insert the site map and UST detail provided in this addendum into the Closure Report submitted to the USTMP in December 1996 as Tab 5.

Cross Section of Tank Pit



LEGEND/REF. DRWG.'S

— Fence

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

DR. — AJR — CH'D — DR. APP. —
ENGR. — — ENGR.'S DEPT. —
DATE 23 July 96 SCALE 1"=20'-0"

JOB# 8101 -- FT. STEWART LOCATION: BLDG. #1280
TANK #74 -- 2500 GAL. U.S.T.

DRAWING NO.: FIGURE:

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

CLOSURE REPORT ADDENDUM
UST #74, FACILITY ID. NO. 9-089072

TANK REMOVAL
(CLOSURE OF PIPING)
TAB 6

The undersigned certifies that the piping associated with former Tank #74, located at Building 1280, Fort Stewart, Georgia, was purged and cleaned by our contractor, Anderson Columbia Environmental, prior to abandoning the piping in-place. In-place closure consisted of placing an absorbent sock in the pipe and then grouting the ends (i.e., the end at the tank and the end in the motorpool bay).

The undersigned also certifies that the piping at this facility was associated with Tank #74, which was used for storage of waste oil. The piping was not greater than 25 feet, and in accordance with GUST Rules, sampling is not required.

Name: Dale F. Kiefer

Title: Chief, Environmental
Natural Resources Division

Signature: Dale F. Kiefer Date: 3 April 98

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-089072

OWNER'S ID: 197

INITIAL DATE RECEIVED: 5/6/86

DATE AMENDED LAST: _____

NOTIFICATION TYPE: ☐ New ☒ Amended ☒ Closure

OWNERSHIP OF TANK (S):

NUMBER OF TANK (S): 1

Name : US ARMY/FT STEWART
Mailing Address : HQ 3RD INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
Phone : 912-767-1071 County: LIBERTY

LOCATION OF TANK (S):

Name : FT STEWART/FAC 1280
Street Address : FAC 1280
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: _____ Longitude: _____
Phone : _____

OWNER TYPE: ☒ Federal ☐ State ☐ Local ☐ Commercial ☐ Private

FACILITY TYPE (S):

☐ Gas Station	☐ Local Government	☐ Contractor
☐ Petroleum Dist	☐ State Government	☐ Truck/Transport
☐ Air Tax (Airport)	☐ Fed Non-Military	☐ Utilities
☐ Aircraft Owner	☒ Fed Military	☐ Farm
☐ Auto Dealership	☐ Commercial	☐ Residential
☐ Railroad	☐ Industrial	☐ Other
☐ Hospital	☐ Educational	

CONTACT PERSON IN CHARGE OF TANK (S):

Name : US ARMY/FT STEWART Title: JOHN SPEAR/ENV ENG
Address : HQ 3RD INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
Phone : 912-767-1071

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY:

FACILITY ID NUMBER:

- ☐ I meet the financial responsibility requirements of SS12-13-9 Official Code of Georgia Annotated by providing or participating in one of the following financial assurance mechanisms.

Primary Financial Responsibility Mechanism (check one)

- | | |
|---|---|
| ☐ GUST Trust Fund | ☐ Insurance |
| ☐ Surety Bond | ☐ Guarantee |
| ☐ Letter of Credit | ☐ Trust Fund (other than GUST) |
| ☐ Risk Retention Group | ☒ Other Method |
| ☐ Self-insured | ☐ None |

If a primary coverage mechanism other than GUST Trust Fund is checked, provide the following information pursuant to GUST Rule 391-3-15-.12 (1):

Financial Responsibility Provider (primary):

Name: US Army

Address: HQ 3rd Inf. Div. (M) AFZP-DEV/BLDG 1139 City: Ft. Stewart State: GA

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

Deductible Financial Responsibility, if any: (check one)

Note: If your primary Financial Responsibility Mechanism is provided through participation in the GUST Trust Fund by payment of Environmental Assurance Fees, as required under GUST Rule 391-3-15-.13, you must also check one of the following boxes indicating how coverage for the GUST Trust Fund \$10,000 deductible is being provided.

If your Financial Responsibility Mechanism is other than GUST Trust Fund and it has a deductible, you must also check one of the following boxes indicating how coverage for the deductible is being provided.

- | | |
|---|---|
| ☐ Surety Bond | ☐ Insurance |
| ☐ Letter of Credit | ☐ Guarantee |
| ☐ Risk Retention Group | ☐ Trust Fund (other than GUST) |
| ☐ Self-insured | ☐ Other Method |

Provide the name and address of Financial Responsibility Provider for Deductible pursuant to GUST Rule 391-15-.12 (1):

Financial Responsibility Provider (deductible):

Name: _____

Address: _____ City: _____ State: _____

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

OATH OF

INSTALLATION: I certify the information concerning installation of the UST system, release detection, and spill/overflow protection specified in Part II-Tank Data is true to the best of my belief and knowledge.

Installer:

Company

Company Address

Authorized Representative

Signature

Date

Title

Telephone Number (include Area Code)

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Owner:

John H. Spears
Owner Name

Chief, Environmental Branch
Title

Owner's Signature

Date

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089072				
TANK ID	74				
Status of Tank					
Currently in Use	☒				
Temp. Out of Use	☐				
Perm. Out of Use	☒				
Date of Installation	1-Jan-81				
Age	15				
Est. Total Capacity	2500				
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	☒				
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Explanation					
Date Tank Repaired					
PIPING MATERIAL					
Bare Steel					
Galvanized Steel	☒				
Fiberglass					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, Explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	☒				
Propane					
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089072										
TANK ID	74										
Substance Stored in Tank											
Hazardous Substance											
CERCLA Name											
CAS Number											
Mixture											
Mixture, Specification											
Out of Use/Chg. Ser.	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Est. Date Last Used	6/5/1996	6/5/1996									
Est. Date Closed	7/3/1996	7/3/1996									
Removed from Ground	X										
Closed in Ground		X									
Filled with Iner. Mat.		X									
Change in Service											
Site Assessment Compl.											
Leak Detected											
Installation											
Certified by Manufac.											
Certified by Imple. Agn.											
Inspected by Engineer											
Checklists Completed											
Another Allowed Method											
Method Description											
Certified by Imple. Agn.											
Inspected by Engineer											
Checklists Completed											
Another Allowed Method											
Method Description											
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Tank Tightness Testing											
Inventory Controls											
SIR											
Automatic Tank Gauging											
Inter. Mon./Double Wall											
Groundwater Monitoring											
Manual Tank Gauging											
Vapor Monitoring											
Inter. Mon./Sec. Cont.											
Auto. Line Leak Detect.											
Line Tightness Testing											
Other Method											
Other Description											
Spill and Overfill											
Date Overfill Device											
Date Spill Device											
Installer Certification											
Name											
Position											
Company											
Date											

TAB 6

FIELD ASSESSMENT METHODS

SOIL SAMPLES

Soil samples for analytical testing were collected by Anderson Columbia Environmental, Inc. (ACE) personnel two (2) feet below both end of the excavated tanks and from the side walls of the excavation. Soil samples were collected into precleaned, labeled laboratory sample bottles and immediately placed on ice. The samples were shipped under Chain of Custody to the Corps of Engineers contract laboratory, Ecosys Laboratory Services.

Soil samples for field screening were collected by ACE personnel from each side and bottom of the tank pit. Soil samples were collected at various intervals and soil vapors were withdrawn for volatile organic compounds (VOCs) with a Heath PORTA-FID II, Model No. 8000 Flame Ionization Detector (FID) fitted with a methane filter. Calibration was performed prior to field sampling with a 100 ppm methane/air mixture.

FID readings of soil samples were collected by filling a clean glass jar one-half full with soil, capping the jar with clean aluminum foil and allowing conditions in the jar to equilibrate for approximately 60 minutes. The tip of the FID was then carefully inserted through the aluminum foil and an air sample from the jar's headspace was analyzed for total VOCs.

GROUNDWATER SAMPLES

Groundwater samples were collected from the bottom of the tank pits only when groundwater invaded the excavation. Groundwater samples were collected from the excavation site with a disposable Teflon bailer and immediately placed in precleaned, labeled laboratory sample containers. Following collection, samples were immediately placed in a sample cooler with ice and were delivered, under Chain of Custody, to Ecosys Laboratory Services.

TAB 7

ANALYTICAL DATA

CLOSURE REPORT ADDENDUM
UST #74, FACILITY ID. NO. 9-089072

LABORATORY ANALYTICAL DATA
TAB 7

As requested, the data attached is that for samples collected at UST #74, only. Please replace the laboratory data sheets contained in the Closure Report submitted in December 1996 (Tab 7) with those provided in this addendum.

1412 Oakbrook Drive
Suite 105
Cross, Georgia 30093
Phone (770) 368-0636
Fax (770) 368-0806

USACE-SAD
Blaisdell Willis
611 South Cobb Drive
Marietta, GA 30060
P: 919-5270 F: 919-4977

Client Code 29112130
Ledger Number 107999
P.O. Number
Date Received 07/26/96
Time Received 10:31
Reporting Date 08/20/96

Ledger Comment This is an amended report. Soil Results are reported on a dry weight basis.

Lab Sample ID AB36433 Client Site # 29628
Project # 4033 Client Sample # 8101-TK74-S1
Project Name FT. STEWART
Sampling Date/Time 07/23/96 12:30

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	PHENOL	\$06013	Below MDL	383	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	383	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	383	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	766	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	383	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	766	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	131-11-3	GC	08/02/96

Lab Sample ID AB36433
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 12:30

Client Site # 29628
 Client Sample # 8101-TK74-S1

ETHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL									
				Prep Date 08/02/96		Batch 0802960008			
8270B	ACENAPHTHYLENE	\$08013	Below MDL	383	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$08013	Below MDL	383	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$08013	Below MDL	383	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$08013	Below MDL	383	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$08013	Below MDL	1914	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$08013	Below MDL	1914	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$08013	Below MDL	383	ug/Kg	1.0	132-84-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$08013	Below MDL	383	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$08013	Below MDL	383	ug/Kg	1.0	84-88-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$08013	Below MDL	383	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$08013	Below MDL	383	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$08013	Below MDL	383	ug/Kg	1.0	100-01-8	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$08013	Below MDL	1914	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$08013	Below MDL	383	ug/Kg	1.0	88-30-8	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$08013	Below MDL	383	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$08013	Below MDL	1914	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$08013	Below MDL	383	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$08013	Below MDL	383	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$08013	Below MDL	383	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$08013	Below MDL	383	ug/Kg	1.0	208-44-0	GC	08/02/96
8270B	PYRENE	\$08013	Below MDL	383	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$08013	Below MDL	383	ug/Kg	1.0	65-65-7	GC	08/02/96
8270B	3,3-DICHLOROBENZIDINE	\$08013	Below MDL	766	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$08013	Below MDL	383	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$08013	Below MDL	383	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$08013	Below MDL	383	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$08013	Below MDL	383	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$08013	Below MDL	383	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$08013	Below MDL	383	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$08013	Below MDL	383	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$08013	Below MDL	383	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$08013	Below MDL	383	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$08013	Below MDL	383	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$08013	49	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$08013	41	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$08013	43	%	REC	1.0	4185-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$08013	64	%	REC	1.0	321-80-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$08013	65	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$08013	77	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$08013	Below MDL	383	ug/Kg	1.0	88-74-8	GC	08/02/96
BTX (GC) SOIL									
				Prep Date 08/05/96		Batch 080596BS			
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	100-41-4	DTA	08/05/96

Lab Sample ID AB36433
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 12:30

Client Site # 29628
 Client Sample # 8101-TK74-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL						Prep Date 08/05/96		Batch 080596BS	
8020A	XYLENES (TOTAL)	\$08006	35	1.2	ug/Kg	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	55	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	63	%	REC	1.0	480-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	08/05/96
						Prep Date 07/31/96		Batch 073196	
418.1	TPH (FTIR) SOIL	08008	9.3	5.8	mg/Kg	1.0		ML	07/31/96
						Prep Date 07/29/96		Batch 072996	
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	86.2	0.1	%	1.0		MN	07/29/96

Lab Sample ID AB36434
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 14:45

Client Site # 29629
 Client Sample # 8101-TK93-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL						Prep Date 08/02/96		Batch 0802960008	
8270B	PHENOL	\$08013	Below MDL	383	ug/Kg	1.0	108-95-2	GC	08/03/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$08013	Below MDL	383	ug/Kg	1.0	111-44-4	GC	08/03/96
8270B	2-CHLOROPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	95-57-8	GC	08/03/96
8270B	1,3-DICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	541-73-1	GC	08/03/96
8270B	1,4-DICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	106-46-7	GC	08/03/96
8270B	1,2-DICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	95-50-1	GC	08/03/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$08013	Below MDL	383	ug/Kg	1.0	108-60-1	GC	08/03/96
8270B	2-METHYLPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	95-48-7	GC	08/03/96
8270B	4-METHYLPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	106-44-5	GC	08/03/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$08013	Below MDL	383	ug/Kg	1.0	621-84-7	GC	08/03/96
8270B	HEXACHLOROETHANE	\$08013	Below MDL	383	ug/Kg	1.0	87-72-1	GC	08/03/96
8270B	NITROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	98-95-3	GC	08/03/96
8270B	ISOPHORONE	\$08013	Below MDL	383	ug/Kg	1.0	78-59-1	GC	08/03/96
8270B	2-NITROPHENOL	\$08013	Below MDL	767	ug/Kg	1.0	88-75-5	GC	08/03/96
8270B	2,4-DIMETHYLPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	105-67-9	GC	08/03/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$08013	Below MDL	383	ug/Kg	1.0	111-91-1	GC	08/03/96
8270B	1,2,4-TRICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	120-83-2	GC	08/03/96
8270B	NAPHTHALENE	\$08013	Below MDL	383	ug/Kg	1.0	120-82-1	GC	08/03/96
8270B	4-CHLOROANILINE	\$08013	Below MDL	383	ug/Kg	1.0	81-20-3	GC	08/03/96
8270B	HEXACHLOROBUTADIENE	\$08013	Below MDL	383	ug/Kg	1.0	106-47-8	GC	08/03/96
08	4-CHLORO-3-METHYLPHENOL	\$08013	Below MDL	767	ug/Kg	1.0	87-66-3	GC	08/03/96
						59-50-7		GC	08/03/96

THE UNIVERSITY OF CHICAGO

2575-4128

Project No.	Project Name	Sample Location		Date	Time	Temp	Sample Location	No. of Samples	Remarks
801	Ft. Stewart	8020	0270	4/8/1	✓	✓	✓	None	Closure sample for Tank 74
		8020	0270	4/8/1	✓	✓	✓	None	Closure sample for Tank 93
								None	Distilled H ₂ O

*Amended
4-98*

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 74
Building Number 1280

<i>Method</i> Sample ID <i>unit</i>	9073 TRPH ppm	418.1 TPH ppm	8020A BTEX ppb	8270B Semi-Volatile Organics ppb
8101-TK74-S1		9.3	35	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is approximately 2000 feet from a withdrawal point. Comparisons with Table A (which follows) reveals that the site is clean with respect to BTEX and PAH constituents. Note the low level of TPH that was detected.

Complete Data Package Follows

Table A

Petroleum Constituents and Soil Threshold Levels^a

At UST corrective action sites where withdrawal points for public and non-public water supplies exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b (Where public water supplies exist within 2.0 miles and/or non-public supplies exist within 0.5 miles)		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c (Where public water supplies exist within 1.0 mile and/or non-public supplies exist within 0.25 mile)	
	≤500 feet to withdrawal point	> 500 feet to withdrawal point	≤500 feet to withdrawal point	> 500 feet to withdrawal point
VOLATILE ORGANIC COMPOUNDS				
Benzene ^d	0.005 mg/kg ^d	0.008 mg/kg	0.005 mg/kg ^d	0.71 mg/kg
Toluene	0.400 mg/kg	6.00 mg/kg	0.400 mg/kg	500.00 mg/kg
Ethylbenzene	0.370 mg/kg	10.00 mg/kg	0.500 mg/kg	140.00 mg/kg
Xylenes (total)	20.00 mg/kg	700.00 mg/kg	27.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.820 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	1.60 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	1.50 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

- Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.
- Based on an assumed distance of 0.5 feet between contaminated soils and the water table.
- Based on an assumed distance of 5.0 feet between contaminated soils and the water table.
- d - Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.
- e - Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.
- f - In order to protect surface waters, the soil threshold level in Table B may supersede that found in Table A.
- g - In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

Table B

Petroleum Constituents and Soil Threshold^a Levels

other UST corrective action sites where withdrawal points for public and non-public water supplies do not exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c	
	≤500 feet to sur- face water body	>500 feet to sur- face water body	≤500 feet to sur- face water body	>500 feet to sur- face water body
VOLATILE ORGANIC COMPOUNDS				
Benzene ^f	0.017 mg/kg	0.120 mg/kg	0.020 mg/kg	11.30 mg/kg
Toluene	115.00 mg/kg	500.00 mg/kg	135.00 mg/kg	500.00 mg/kg
Ethylbenzene	18.00 mg/kg	140.00 mg/kg	28.00 mg/kg	140.00 mg/kg
Xylenes (total)	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

^a based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

^b based on an assumed distance of 0.5 feet between contaminated soils and the water table.

^c based on an assumed distance of 5.0 feet between contaminated soils and the water table.

^d Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.

^e Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

^f In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO: Commander, Savannah District
US Army Corps of Engineers
ATTN: CESAS-PM-H
Mr. Brent Rose
P.O. Box 889
Savannah, GA 31402-0889

FROM: Director (CESAD-ET-EL)
SAD Laboratory
USACE
611 South Cobb Drive
Marietta, GA 30060-3112

PROJECT: Ft. Stewart

REQN NO: PMS-96-109
W.O. NO: 7996

SUBJECT: Analytical Testing Results

1. Enclosed is our report of analytical test results and chain of custody forms for samples collected on 23 July 1996 from Ft. Stewart.

2. If you have any questions, please call Mr. Blaise Willis at 770-919-5295.

SUBMITTED BY:

SIGNATURE

DATE:

BLAISE WILLIS
Supervisory Chemist

Blaise Willis

29 Aug 1996

South Atlantic Division Laboratory
U. S. Army Corps of Engineers
611 South Cobb Drive
Marietta, Georgia 30060-3112

District - SAVANNAH FT. STEWART ARMY AF
Date Received - 96/07/25 Requisition - PMS-96-109
Date Reported - 96/08/22 15:05:25 Work Order - 7996 Job Number - 4033

Lab #	Field ID	Date Sampled	Time Sampled
29628	8101-TK74-S1	96/07/23	12:30

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	86.20	%	ECO	96/07/29
AROMATIC VOLATILE ORGANICS	*		ECO	96/08/05
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/02
TRPH	9.3	MG/KG	ECO	96/07/31

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis
Blaise Willis
Chemist

at 1 of 3

Lab # Field ID

630 TRIP BLANK

Date Sampled Time Sampled

96/07/23 00:00

Test Performed

AROMATIC VOLATILE ORGANICS

Result	Units	Tested By	Test Date
-----	-----	-----	-----
*		ECO	96/08/05

*NOTE: See Attached

Sampled by District Personnel

Checked by: MS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Page 3 of 3

ANDERSON COLUMBIA ENVIRONMENTAL, INC. CHAIN OF CUSTODY RECORD

12/29/96

Page 1 of 1
Job # 4033

Project No. 8101		Project Name Ft. Stewart		Sample Location		No. of Containers		Preservative		8020 8270 418.1		Remarks	
Sample Number	Date	Time	g	g	Sample Location	No. of Containers	Preservative	8020	8270	418.1	Remarks		
B101-TK74-S1	3/3/96	1230	X		Tank P-7	3	None	✓	✓	✓	Closure sample for Tank 74		
B101-TK93-S1	2/25/96	1445	X		Tank P-7	3	None	✓	✓	✓	Closure sample for Tank 93		
Temp Blank	2/25/96					1	None				Distilled H ₂ O		
Temp Vial	2/25/96					1	None						
Relinquished by: <i>Arthur Davis</i> Date / Time: 2/25/96/1735 Received by: <i>John Smith</i> Date / Time: 2/25/96/1735													
Relinquished by: <i>Arthur Davis</i> Date / Time: 2/25/96/1735 Received by: <i>John Smith</i> Date / Time: 2/25/96/1735													
Relinquished by: <i>Arthur Davis</i> Date / Time: 2/25/96/1735 Received by: <i>John Smith</i> Date / Time: 2/25/96/1735													

SOUTH ATLANTIC DIVISION LABORATORY
SAMPLE RECEIVING AND COOLER RECEIPT DATA SHEET
CHEMICAL SECTION - Sample Log-In

DATE: 7/26/96

Number of coolers 1 Returned cooler(s) to: Anders, Columbia

PROJECT: Fr. Stewart W.O.# _____ JOB# 4033

Coolers(s) opened by (print name) Rene L. McDonald (sign) [Signature]

1. Did cooler come with shipping slip? ☒ yes ☐ no
If yes, enter Tracking Number here 1020383210

2. Were custody seals on out side of cooler?
How many? 2 Date on seal(s) 7/23/96 Name on seal(s) P ☒ yes ☐ no

3. Were custody seals unbroken upon receipt? ☒ yes ☐ no

4. Did you screen sample(s) for "Radioactivity"? ☐ yes ☐ no

5. Were custody papers filled out properly? (ink, signed, etc.,) ☒ yes ☐ no

6. Temperature of sample(s) upon receipt: 9c

7. Describe cooler packing: Bubble Bags

8. Did all sample containers arrive unbroken? ☒ yes ☐ no

9. Were the sample containers sealed in separate plastic bags? ☒ yes ☐ no

10. Were labels on containers in good condition and agree with Custody paper? ☒ yes ☐ no

11. Were correct containers used for the test(s) indicated? ☒ yes ☐ no

12. Were correct preservatives added to sample(s)? ☐ yes ☐ no ☒ unk

13. Was a sufficient amount of sample sent for test? ☒ yes ☐ no

14. Were bubbles absent in Volatile sample(s)? ☒ yes ☐ no ☐ N/A
If no, list field ID# _____

15. Numbers of days from sample date, samples received in Lab 2 days

16. Number of Samples: 3 Sample Type: ☒ soil ☐ water ☐ other _____

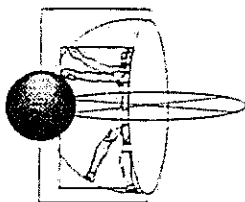
SAMPLE ANALYSIS PERFORMED BY: Fr. Jyis TAT [Signature]

COMMENTS: _____

17. Did you sign custody papers in the appropriate place? ☒ yes ☐ no

LAB NUMBER(S): 29620-30

SIGNATURE: [Signature]



ECOSYS

LABORATORY SERVICES

ACE SAD

ACE SAD CLIENT NAME: FT. STEWART

ACE SAD JOB NUMBER: 4033

EcoSys LEDGER NUMBER: 107999

SAMPLE INFORMATION:

ACE SAD SAMPLE NAME	EcoSys SAMPLE NUMBER	MATRIX	ANALYSIS
8101-TK74-S1	AB36433	SOIL	BTEX(8020A), SVOC(8270B), TPH(418.1)
8101-TK93-S1	AB36434	SOIL	BTEX(8020A), SVOC(8270B), TPH(418.1)
TRIP BLANK #9	AB36435	WATER	BTEX(8020A)
METHOD BLANK	AB36436	SOIL	BTEX(8020A), SVOC(8270B), TPH(418.1)
NA	AB36720 MS	SOIL	BTEX(8020A)
NA	AB36721 MSD	SOIL	BTEX(8020A)
8101-TK74-S1	AB36433 REF	SOIL	BTEX(8020A)
NA	AB36719 LCS	SOIL	BTEX(8020A)
NA	AB36700 MS	SOIL	SVOC(8270B)
NA	AB36701 MSD	SOIL	SVOC(8270B)
8101-TK94C-S1	AB36628 REF	SOIL	SVOC(8270B)
NA	AB36702 LCS	SOIL	SVOC(8270B)
NA	MS	SOIL	TPH(418.1)
NA	MSD	SOIL	TPH(418.1)
CAFB-1-932-01	AB35825 REF	SOIL	TPH(418.1)
NA	LCS	SOIL	TPH(418.1)
BFS-71996	AB36322 DUP	SOIL	TPH(418.1)
METHOD BLANK	AB36437	WATER	BTEX(8020A)
NA	AB36717 MS	WATER	BTEX(8020A)
NA	AB36718 MSD	WATER	BTEX(8020A)
TRIP BLANK	AB36435 REF	WATER	BTEX(8020A)
NA	AB36716 LCS	WATER	BTEX(8020A)

QUALITY CONTROL PROBLEMS

ANALYSIS	QC PROBLEM	CORRECTIVE ACTION TAKEN
BTEX (SOIL)	RPD outside QC Limits	Results were accepted because compounds were not present in sample. Also, MS/MSD results and LCS were within control limits.
TRPH 418.1 (SOIL)	Duplicate Sample AB36322 was not an USACE-SAD sample.	No action necessary.

CLINICAL LABORATORIES
ENVIRONMENTAL LABORATORIES
MOBILE LABORATORIES
FIELD SAMPLING

1412 Oakbrook Drive
Suite 105
Lawrenceville, Georgia 30093
Phone (770) 368-0636
Fax (770) 368-0806

USACE-SAD
Blaisdell Willis
611 South Cobb Drive
Marietta, GA 30060
P: 919-5270 F: 919-4977

Client Code 29112130
Ledger Number 107999
P.O. Number
Date Received 07/26/96
Time Received 10:31
Reporting Date 08/20/96

Ledger Comment This is an amended report. Soil Results are reported on a dry weight basis.

Lab Sample ID AB36433 Client Site # 29628
Project # 4033 Client Sample # 8101-TK74-S1
Project Name FT. STEWART
Sampling Date/Time 07/23/96 12:30

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	PHENOL	\$06013	Below MDL	383	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	383	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	383	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	383	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	766	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	383	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	766	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	131-11-3	GC	08/02/96

Lab Sample ID AB36433
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 12:30

Client Site # 29628
 Client Sample # 8101-TK74-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL						Prep Date 08/02/96	Batch 0802960008		
8270B	ACENAPHTHYLENE	\$06013	Below MDL	383	ug/Kg	1.0	208-86-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	383	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	383	ug/Kg	1.0	132-84-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-88-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	383	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	100-01-8	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	88-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1914	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	383	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	208-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	85-66-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	766	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	383	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	183-38-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	383	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	49	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	41	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	43	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	64	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	65	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	77	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-8	GC	08/02/96
BTX (GC) SOIL						Prep Date 08/05/96	Batch 080596BS		
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	100-41-4	DTA	08/05/96

Lab Sample ID AB36433
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 12:30

Client Site # 29628
 Client Sample # 8101-TK74-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL						Prep Date 08/05/96		Batch 080590BS	
8020A	XYLENES (TOTAL)	\$08006	35	1.2	ug/Kg	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	55	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	63	%	REC	1.0	480-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	08/05/96
						Prep Date 07/31/96		Batch 073196	
418.1	TPH (FTIR) SOIL	08008	9.3	5.8	mg/Kg	1.0		ML	07/31/96
						Prep Date 07/29/96		Batch 072996	
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	86.2	0.1	%	1.0		MN	07/29/96

Lab Sample ID AB36434
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 14:45

Client Site # 29629
 Client Sample # 8101-TK93-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL						Prep Date 08/02/96		Batch 0802960008	
8270B	PHENOL	\$08013	Below MDL	383	ug/Kg	1.0	108-95-2	GC	08/03/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$08013	Below MDL	383	ug/Kg	1.0	111-44-4	GC	08/03/96
8270B	2-CHLOROPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	95-57-8	GC	08/03/96
8270B	1,3-DICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	541-73-1	GC	08/03/96
8270B	1,4-DICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	106-46-7	GC	08/03/96
8270B	1,2-DICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	95-50-1	GC	08/03/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$08013	Below MDL	383	ug/Kg	1.0	108-60-1	GC	08/03/96
8270B	2-METHYLPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	95-48-7	GC	08/03/96
8270B	4-METHYLPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	105-44-5	GC	08/03/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$08013	Below MDL	383	ug/Kg	1.0	621-64-7	GC	08/03/96
8270B	HEXACHLOROETHANE	\$08013	Below MDL	383	ug/Kg	1.0	67-72-1	GC	08/03/96
8270B	NITROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	98-95-3	GC	08/03/96
8270B	ISOPHORONE	\$08013	Below MDL	383	ug/Kg	1.0	78-59-1	GC	08/03/96
8270B	2-NITROPHENOL	\$08013	Below MDL	767	ug/Kg	1.0	88-75-5	GC	08/03/96
8270B	2,4-DIMETHYLPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	105-87-9	GC	08/03/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$08013	Below MDL	383	ug/Kg	1.0	111-91-1	GC	08/03/96
8270B	2,4-DICHLOROPHENOL	\$08013	Below MDL	383	ug/Kg	1.0	120-83-2	GC	08/03/96
8270B	1,2,4-TRICHLOROBENZENE	\$08013	Below MDL	383	ug/Kg	1.0	120-82-1	GC	08/03/96
8270B	NAPHTHALENE	\$08013	Below MDL	383	ug/Kg	1.0	81-20-3	GC	08/03/96
8270B	4-CHLOROANILINE	\$08013	Below MDL	383	ug/Kg	1.0	106-47-8	GC	08/03/96
8270B	HEXACHLOROBUTADIENE	\$08013	Below MDL	383	ug/Kg	1.0	87-68-3	GC	08/03/96
270B	4-CHLORO-3-METHYLPHENOL	\$08013	Below MDL	767	ug/Kg	1.0	59-50-7	GC	08/03/96

Lab Sample ID AB36434
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 14:45

Client Site # 29629
 Client Sample # 8101-TK93-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL						Prep Date 08/02/96	Batch 0802960008		
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-57-6	GC	08/03/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	383	ug/Kg	1.0	77-47-4	GC	08/03/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	88-06-2	GC	08/03/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	383	ug/Kg	1.0	95-95-4	GC	08/03/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	383	ug/Kg	1.0	91-58-7	GC	08/03/96
8270B	2-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	88-74-4	GC	08/03/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	131-11-3	GC	08/03/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	383	ug/Kg	1.0	208-96-8	GC	08/03/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	606-20-2	GC	08/03/96
8270B	3-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	99-09-2	GC	08/03/96
8270B	ACENAPHTHENE	\$06013	Below MDL	383	ug/Kg	1.0	83-32-9	GC	08/03/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	51-28-5	GC	08/03/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	100-02-7	GC	08/03/96
8270B	DIBENZOFURAN	\$06013	Below MDL	383	ug/Kg	1.0	132-64-9	GC	08/03/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	383	ug/Kg	1.0	121-14-2	GC	08/03/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-66-2	GC	08/03/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	7005-72-3	GC	08/03/96
8270B	FLUORENE	\$06013	Below MDL	383	ug/Kg	1.0	86-73-7	GC	08/03/96
8270B	4-NITROANILINE	\$06013	Below MDL	383	ug/Kg	1.0	100-01-6	GC	08/03/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	534-52-1	GC	08/03/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	383	ug/Kg	1.0	86-30-6	GC	08/03/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	383	ug/Kg	1.0	101-55-3	GC	08/03/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	383	ug/Kg	1.0	118-74-1	GC	08/03/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1916	ug/Kg	1.0	87-86-5	GC	08/03/96
8270B	PHENANTHRENE	\$06013	Below MDL	383	ug/Kg	1.0	85-01-8	GC	08/03/96
8270B	ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	120-12-7	GC	08/03/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	84-74-2	GC	08/03/96
8270B	FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	206-44-0	GC	08/03/96
8270B	PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	129-00-0	GC	08/03/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	85-68-7	GC	08/03/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	767	ug/Kg	1.0	91-94-1	GC	08/03/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	56-55-3	GC	08/03/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-81-7	GC	08/03/96
8270B	CHRYSENE	\$06013	Below MDL	383	ug/Kg	1.0	218-01-9	GC	08/03/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	383	ug/Kg	1.0	117-84-0	GC	08/03/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	205-99-2	GC	08/03/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	383	ug/Kg	1.0	207-08-9	GC	08/03/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	50-32-8	GC	08/03/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	383	ug/Kg	1.0	193-39-5	GC	08/03/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	383	ug/Kg	1.0	53-70-3	GC	08/03/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	383	ug/Kg	1.0	191-24-2	GC	08/03/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	45	%	REC	1.0	367-12-4	GC	08/03/96
8270B	PHENOL-D5 (SURR)	\$06013	39	%	REC	1.0	13127-88-3	GC	08/03/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	45	%	REC	1.0	4165-60-0	GC	08/03/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	63	%	REC	1.0	321-60-8	GC	08/03/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	57	%	REC	1.0	118-79-6	GC	08/03/96

Lab Sample ID AB36434
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 14:45

Client Site # 29629
 Client Sample # 8101-TK93-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	TERPHENYL-D14 (SURR)	\$06013	75	%	REC	1.0	1718-51-0	GC	08/03/96
8270B	CARBAZOLE	\$06013	Below MDL	383	ug/Kg	1.0	86-74-8	GC	08/03/96
BTEX (GC) SOIL				Prep Date 08/05/96		Batch 080596BS			
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.2	ug/Kg	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	64	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	77	%	REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	08/05/96
				Prep Date 07/31/96		Batch 073196			
418.1	TPH (FTIR) SOIL	08008	63	5.8	mg/Kg	1.0		ML	07/31/96
				Prep Date 07/29/96		Batch 072996			
% TOTAL SOLIDS SOIL (N/C)		09099	86.1	0.1	%	1.0		MN	07/29/96

Lab Sample ID AB36435
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time 07/23/96 :

Client Site # 29630
 Client Sample # TRIP BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 08/05/96		Batch 080596BW			
8020A	BENZENE	\$08106	Below MDL	1.0	ug/L	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08106	Below MDL	1.0	ug/L	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08106	Below MDL	1.0	ug/L	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	87	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	92	%	REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08106	Below MDL	1.0	ug/L	1.0	1634-04-4	DTA	08/05/96

Lab Sample ID AB36436
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
						Factor			ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	PHENOL	\$06013	Below MDL	330	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	330	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	330	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	330	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	330	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-09-3	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	330	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	330	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	330	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	87-86-5	GC	08/02/96

Lab Sample ID AB36436

Client Site #

Project # 4033

Client Sample # SOIL METHOD BLANK

Project Name FT. STEWART

Sampling Date/Time / / :

HOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	PHENANTHRENE	\$06013	Below MDL	330	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	660	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	330	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	330	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	72	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	63	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	74	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	81	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	73	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	97	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	330	ug/Kg	1.0	86-74-8	GC	08/02/96
BTX (GC) SOIL				Prep Date 08/05/96		Batch 080596BS			
8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/05/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	87	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	90	%	REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/05/96
				Prep Date 07/31/96		Batch 073196			
418.1	TPH (FTIR) SOIL	08008	Below MDL	5.0	mg/Kg	1.0		ML	07/31/96

Lab Sample ID AB36437
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # WATER METHOD BLANK

IOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 08/05/96			Batch 080596BW		
8020A	BENZENE	\$08106	Below MDL	1.0	ug/L	1.0	71-43-2	DTA	08/05/96
8020A	TOLUENE	\$08106	Below MDL	1.0	ug/L	1.0	108-88-8	DTA	08/05/96
8020A	ETHYLBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	100-41-4	DTA	08/05/96
8020A	XYLENES (TOTAL)	\$08106	Below MDL	1.0	ug/L	1.0	1330-20-7	DTA	08/05/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	117	%	REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	113	%	REC	1.0	460-00-4	DTA	08/05/96
8020A	CHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	108-90-7	DTA	08/05/96
8020A	1,2-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	95-50-1	DTA	08/05/96
8020A	1,3-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	541-73-1	DTA	08/05/96
8020A	1,4-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	106-46-7	DTA	08/05/96
8020A	TERT-METHYLBUTYL ETHER	\$08106	Below MDL	1.0	ug/L	1.0	1634-04-4	DTA	08/05/96

Lab Sample ID AB36700
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
						Factor			ANALYSIS
SEMI	(GC/MS) SOIL					Prep Date 08/02/96			Batch 0802960008
8270B	2-FLUOROPHENOL (SURR)	\$06013	59	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	55	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	55	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	76	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	76	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36701
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
						Factor			ANALYSIS
SEMI (GC/MS) SOIL					Prep Date	08/02/96		Batch	0802960001
8270B	2-FLUOROPHENOL (SURR)	\$06013	49	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	44	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	39	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	62	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	70	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36702
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # LCS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96	Batch 0802960008			
8270B	2-FLUOROPHENOL (SURR)	\$06013	71	% REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	68	% REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	62	% REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	77	% REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	70	% REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	90	% REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36716
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # LCS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTX (GC) WATER				Prep Date 08/05/96	Batch 080596BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	91	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	94	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36717
 Project # 4033
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTX (GC) WATER				Prep Date 08/05/96	Batch 080596BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	91	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	98	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36718
Project # 4033
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 08/05/96	Batch 080596BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	90	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	92	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36719
Project # 4033
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # LCS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/05/96	Batch 080596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	91	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	94	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36720
Project # 4033
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/05/96	Batch 080596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	75	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	73	% REC	1.0	460-00-4	DTA	08/05/96

Lab Sample ID AB36721
Project # 4033
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/05/96	Batch 080596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	61	% REC	1.0	98-08-8	DTA	08/05/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	61	% REC	1.0	460-00-4	DTA	08/05/96


Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

NC-DEHNR 441, SC-DHEC 98013, GA, TN-DOH 02826, UT-DOH E-228, FL-DEP 940134 HRS E87511 (Water) HRS 87485 (Drinking Water), NY-DEH ELAP 11551, WI-DNR 998014380

active Materials License	ISO 9000	EPA ID	EPA Reg Waste	GA APHIS	Fed Lab ID	US Army Corps of
R 1283-1	A2LA:0594-01	GA-00058	GA-0001011006	S-3966	58-188334	Engineers Validation

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U.S. Army Corps of Engineers

Work Order #

Job # 4033

Chain of Custody, Reco

(ER 1110-1-263)

Proj. No.

Project Name

71. Street

Sampler (signature)

TAT

[Signature]

Date

Time

Pres.

Site Code/Sample Number

Number of Containers

M8020
8270
418-1

Remarks
SAD NO.

MTM

Due 8/2

7/23/96 1230

8101-TK4-81

3

✓ ✓ ✓

29628 AB 36433 2010

1445

8101-TK93-81

3

✓ ✓ ✓

29629 AB 36434 ↓

↓

1.00 Blank

1

✓

29630 AB 36435 DATE

Soil method Blank

✓

✓ ✓ ✓

AB 36436

Water method Blank

✓

✓

AB 36437

Sampler
Relinquished by:

Date/Time

Received by: (Sig.)

Date/Time

Hazards Associated with Samples

Relinquished by:

Date/Time

Received by: (Sig.)

Date/Time

Relinquished by: (Sig.)

Date/Time

Received for Laboratory by: (Sig.)

Date/Time

Date/Time

Received for Laboratory by: (Sig.)

Date/Time

Remarks at time of receipt:

Duelody Seal No.

Lab case No.

See file

EMG Form 5

-R, Oct 90

10

Location: 7th St & 1st St

Prop. ant: CTRAP-1

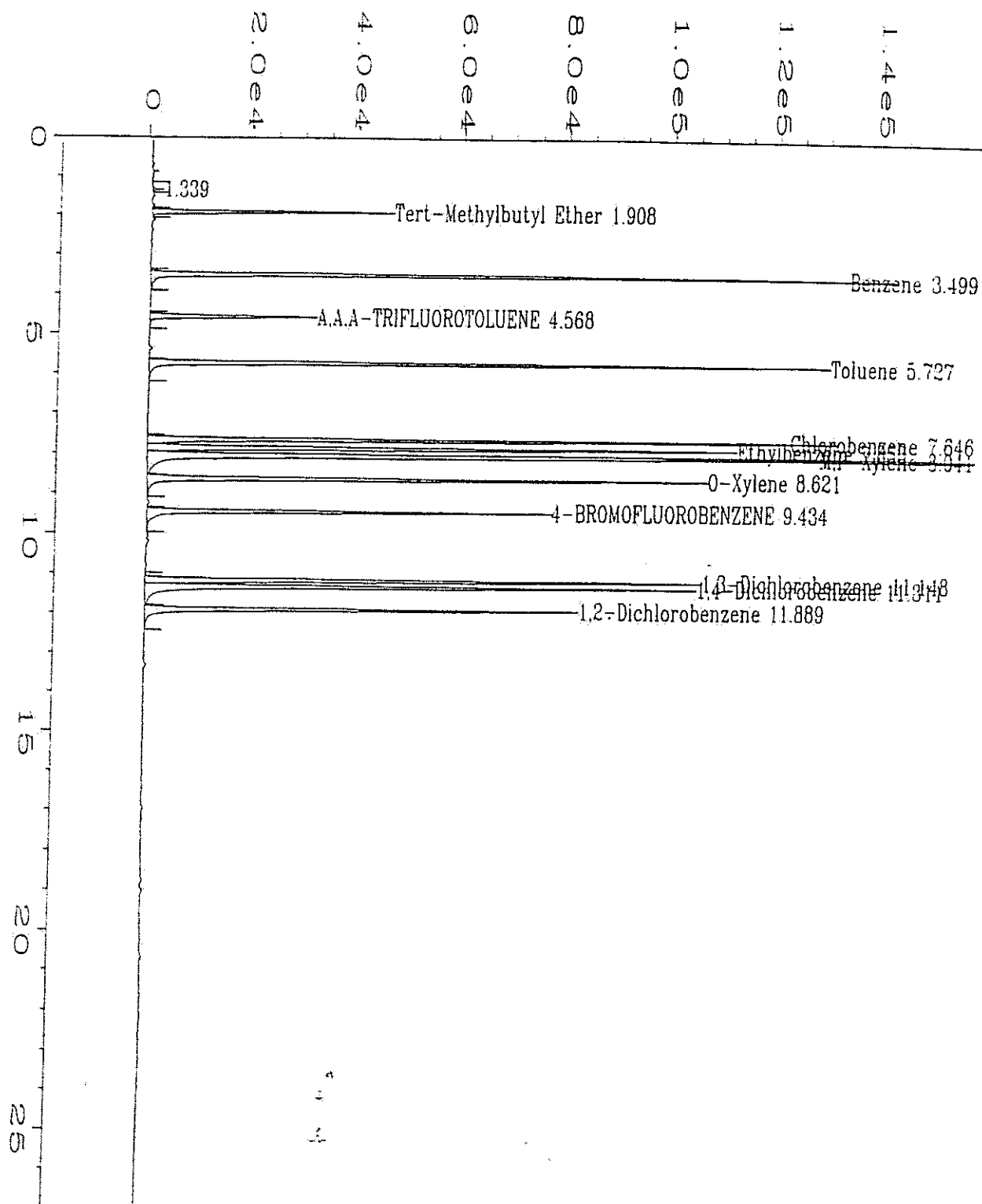
External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\b080596\30805F07.D
Operator           : Doug Anderson
Instrument          : GC3
Sample Name        : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on        : 05 Aug 96 03:22 PM
Report Created on  : 05 Aug 96 03:50 PM
Last Recalib on   : 02 AUG 96 07:23 AM
Multiplier         : 1
Sample Info        : 16ppb surr
Page Number        : 1
Vial Number        : 7
Injection Number    : 1
Sequence Line      : 1
Instrument Method   : 3B080196.MTH
Analysis Method    : 3B080196.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\b080596\30805F07.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.908	170981	PV	0.058	1	19.888	Tert-Methylbutyl Ether
3.499	515740	BB	0.057	1	19.777	Benzene
4.568	133073	BB	0.065	1	15.258	A,A,A-TRIFLUOROTOLUENE
5.727	500620	PB	0.060	1	19.814	Toluene
7.646	502902	BV	0.059	1	19.713	Chlorobenzene
7.853	457401	VV	0.063	1	20.072	Ethylbenzene
8.041	1067624	VV	0.066	1	40.678	M,P-Xylene
8.621	447401	VB	0.065	1	20.163	O-Xylene
9.434	320135	PB	0.064	1	15.985	4-BROMOFLUOROBENZENE
11.148	440496	BV	0.064	1	19.794	1,3-Dichlorobenzene
11.311	490136	VV	0.070	1	21.130	1,4-Dichlorobenzene
11.889	358208	VB	0.066	1	20.171	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b080596\30805F07.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 7
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	3B080196.MTH
Created on	: 05 Aug 96 03:22 PM	Analysis Method	: 3B080196.MTH
Report Created on:	05 Aug 96 03:50 PM	Sample Amount	: 0
Last Recalib on	: 02 AUG 96 07:23 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 16ppb surr		

BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	
Batch No: 080596BS	Date Analyzed: 8/5/96
Lab File ID: 30805F08	Time Analyzed: 15:56
Lab Sample ID: AB36436	Level: Low
Instrument ID: GC3	Matrix: Soil

This method blank applies to the following samples, LCS, MS, and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36719 LCS	30805F09	8/5/96
2	NA	AB36720 MS	30805F10	8/5/96
3	NA	AB36721 MSD	30805F11	8/5/96
4	8101-TK74-S1	AB36433	30805F12	8/5/96
5	8101-TK93-S1	AB36434	30805F13	8/5/96
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable



QA/QC Officer

Comments:

Soil BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.
 Ledger No: 107999
 Batch No: 080596BS
 Lab File ID: 30805F10/30805F11

Client: ACE-SAD
 Matrix Spike/Lab Sample No: AB36433 REF
 AB36720 MS
 AB36721 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	83		40-160
Toluene	20	ND	16	80		40-160
Ethylbenzene	20	ND	18	90		40-160
m,p-Xylene	40	29	86	141		40-160
o-Xylene	20	ND	15	77		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	Recovery
Benzene	20	13	65		24		30	40-160
Toluene	20	12	62		25		30	40-160
Ethylbenzene	20	13	64		33	*	30	40-160
m,p-Xylene	40	62	82		53	*	30	40-160
o-Xylene	20	12	60		25		30	40-160

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

* Values outside of QC limits

ND = Not Detected

RPD: 2 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Robert Lee

QA/QC Officer

Comments:

BTEX LCS Recoveries (Soil)

Lab Name: EcoSys, Inc.
 Ledger No: 107999
 Batch No: 080596BS
 Lab File ID: 30805F09

Client: ACE-SAD
 Laboratory Control Sample No: AB36719
 Level (Low/Med): Low
 Matrix: Soil

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	16	81		40-160
Toluene	20	16	81		40-160
Ethylbenzene	20	16	82		40-160
m,p-Xylene	40	33	82		40-160
o-Xylene	20	16	82		40-160

* Values outside of QC limits
 ND = Not Detected

Spike Recovery: 0 out of 5 outside limits

Robert Lee
 QA/QC Officer

Comments: _____

BTEX Surrogate Recovery Summary

Lab Name: EcoSys, Inc.
Ledger No(s): 107999
Batch No.: 080596BS
GC Column : DB-VXR

Client:	ACESAD
Matrix:	Soil
Level:	Low

[illegible]

Surrogate Recovery Limits: 40-160%

Column to be used to flag recovery values

* Values outside of required QC limits

ND = Not Detected

DO - Diluted Out

QA/QC Officer

Comments:

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 107999DFTPP Injection Date: 7/26/96Lab File ID: DFTPP072696DFTPP Injection Time: 7:04Instrument ID: MSD-3Batch Number: 0802960008

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	82.9 (1)
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	54.2
197	Less than 1.0% of mass 198	0.0 (1)
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	75.7
442	Greater than 40% of mass 198	59.1
443	17.0 - 23.0% of mass 442	20.4 (2)

1-Value is % mass 69

2-Value is % mass 442

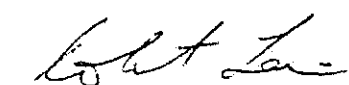
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

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

		CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
	01	STD	INITIAL CAL-1	BNA0201002	07/26/96		8:50 AM
	02	STD	INITIAL CAL-2	BNA0301003	07/26/96		9:42 AM
	03	STD	INITIAL CAL-3	BNA0601006	07/26/96		12:37 PM
	04	STD	INITIAL CAL-4	BNA0401004	07/26/96		10:41 AM
	05	STD	INITIAL CAL-5	BNA0501005	07/26/96		11:40 AM
	06						
	07						
	08						

NA: Not Applicable

Comments:


 QA/QC OFFICER

ata File: /chem/msd3.i/3-072696.b/dftpp072696.d
Report Date: 26-Jul-1996 07:20

Page 1

EcoSys, Inc.

ata file : /chem/msd3.i/3-072696.b/dftpp072696.d

ub. Id. : DFTPP02

nj Date : 26-JUL-96 07:04

Autotune Date: 26-Jul-96 07:03:3

operator : BINA

Inst ID: msd3.i

mp Info : 50ng OF DFT-05-(39)

isc Info : INSTRUMENT TUNE FOR msd3.i

omment :

ethod : /chem/msd3.i/3-072696.b/dftpp288.m

ath Date : 26-Jul-1996 06:48

al Date :

Cal File:

ls bottle: 1

QC Sample: DFTPP

il Factor: 1.000

Target Version: Target 2.20

ntegrator: HP RTE

Compound Sublist: all.sub

ample Type: WATER

		CONCENTRATIONS					
		ON-COL	FINAL				
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET	RANGE	RATIO	
1 dftpp				CAS #: 5074-71-5			
7.474(0.000)	198	161282				100.00(Q)	
7.474(0.000)	51	90538		0.00-	0.00	56.14	
7.474(0.000)	68	0		0.00-	0.00	0.00	
7.474(0.000)	69	122946		0.00-	0.00	76.23	
7.474(0.000)	70	288		0.00-	0.00	0.23	
7.474(0.000)	127	83498		0.00-	0.00	51.77	
7.474(0.000)	197	0		0.00-	0.00	0.00	
7.474(0.000)	199	10388		0.00-	0.00	6.44	
7.474(0.000)	275	36589		0.00-	0.00	22.69	
7.474(0.000)	365	4269		0.00-	0.00	2.65	
7.474(0.000)	441	16298		0.00-	0.00	77.26	
7.474(0.000)	442	108762		0.00-	0.00	67.44	
7.474(0.000)	443	21094		0.00-	0.00	19.39	

C Flag Legend

- Qualifier signal failed the ratio test.

EcoSys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SU
Data Type: MS DATA
Misc Info: INSTRUMENT TUNE FOR msd3.i

Client SDG: 3-072696.b
Sample Date:
Sample Point:
Date Received:

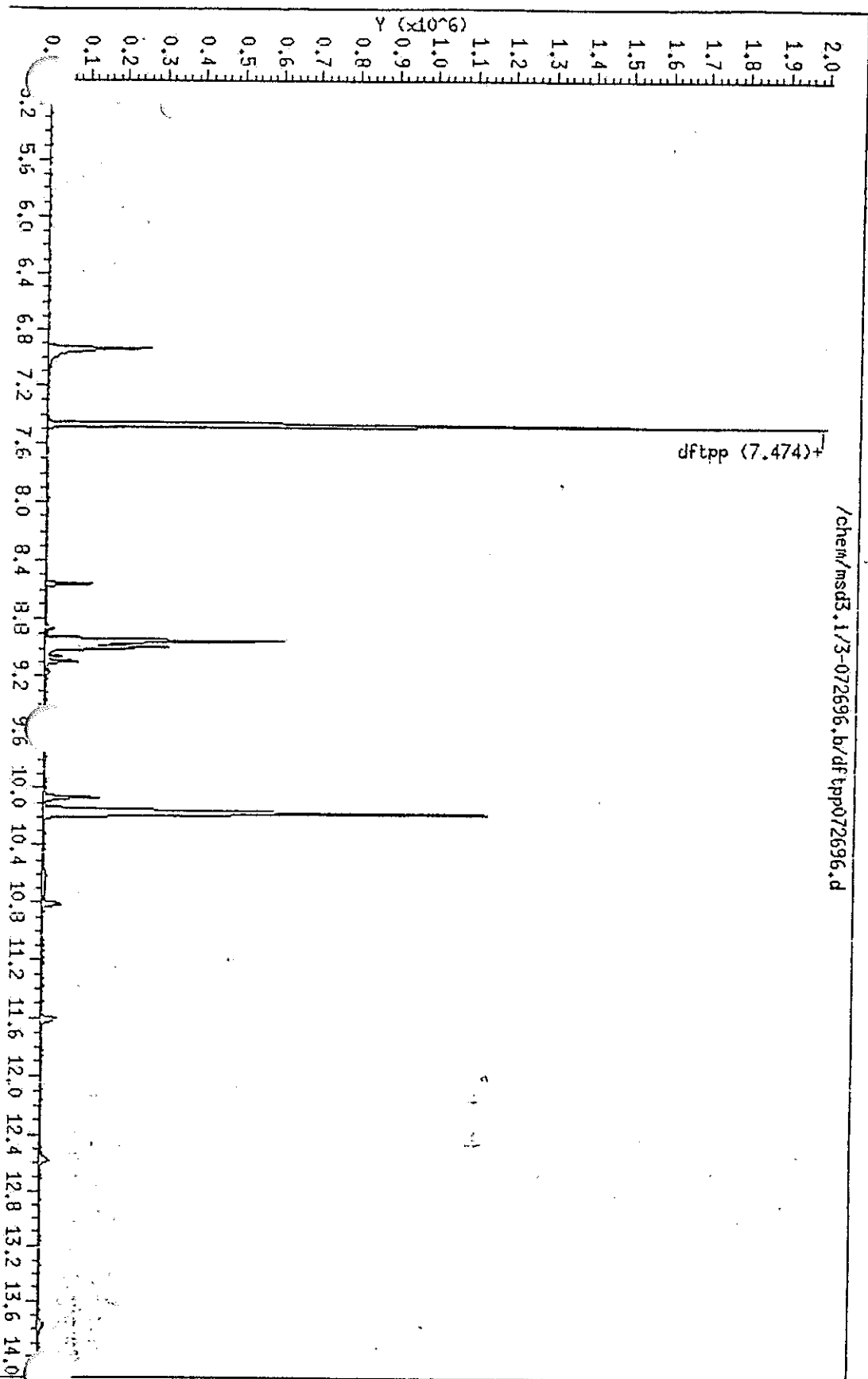
Level: LOW
Column Number: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
5074-71-5-----dftpp		0.0	

Data File: /chem/msd3.1/3-072696.b/dftpp072696.d
Date : 26-JUL-96 07:04
Instrument : msd3.1
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00

Page 3



: 26-JUL-96 07:04

Instrument : msd3.1

Sample ID : DFTPP02

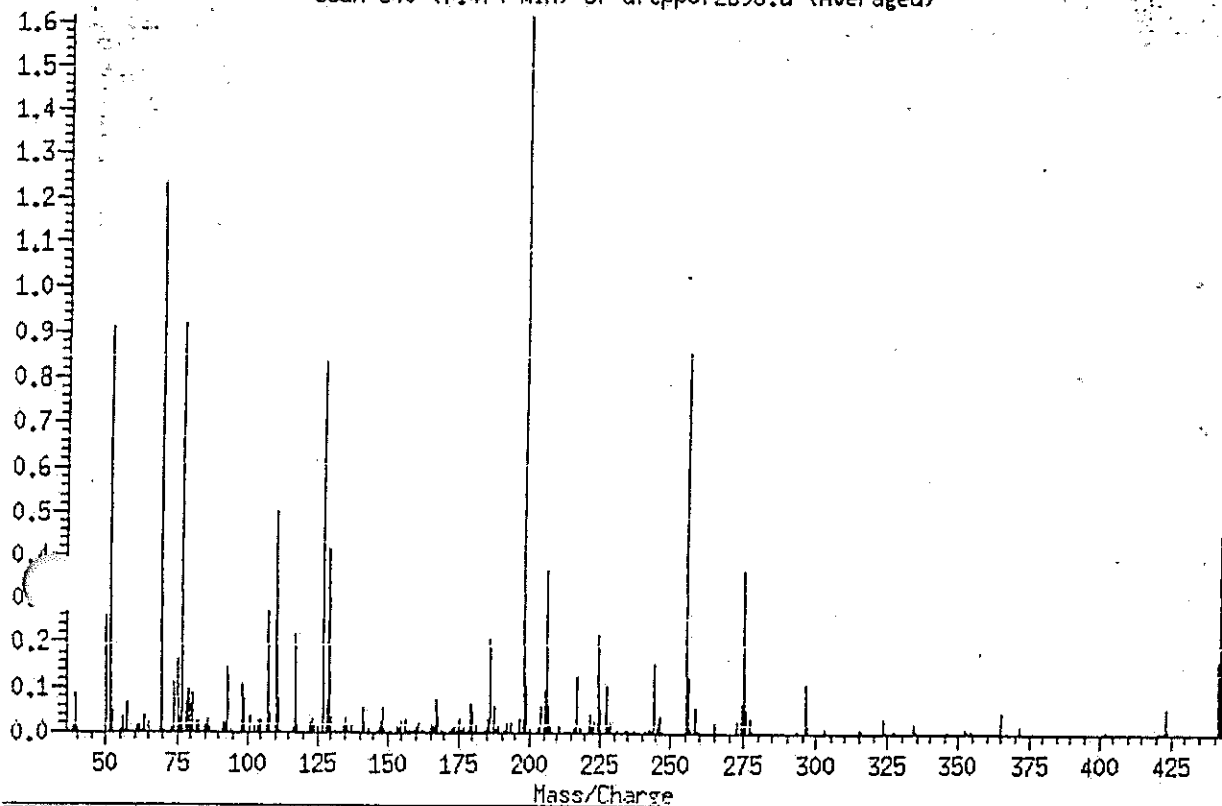
Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp

Scan 340 (7.474 min) of dftpp072696.d (Averaged)



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	56.1
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	76.2
70	Mass 70 relative abundance	0.2
127	Mass 127 relative abundance	51.8
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.4
275	Mass 275 relative abundance	22.7
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	77.3
442	Mass 442 relative abundance	67.4
443	Mass 443 relative abundance	19.4

Date : 26-JUL-96 07:04

Instrument : msd3.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 340-342 (7.474 min) Subtraction Scan 336

Base Peak: 198.00

Number of mass peaks: 176

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	294	116.00	1147	178.00	581	247.00	294
38.00	1594	117.00	21592	179.00	6531	255.00	85365
39.00	8236	118.00	1435	180.00	4582	256.00	12547
50.00	25781	122.00	2295	181.00	1703	257.00	1144
51.00	90538	123.00	2322	184.00	273	258.00	5344
52.00	4356	124.00	1404	185.00	3007	259.00	668
55.00	666	125.00	1272	186.00	20524	265.00	1935
56.00	3236	127.00	83498	187.00	5955	273.00	2634
57.00	6329	128.00	7516	188.00	600	274.00	6281
61.00	1403	129.00	41306	189.00	1447	275.00	36589
62.00	1632	130.00	3674	191.00	689	276.00	4968
63.00	3583	131.00	315	192.00	1780	277.00	3041
65.00	1901	134.00	1256	193.00	2098	278.00	534
69.00	122946	135.00	3185	196.00	2959	293.00	551
70.00	288	136.00	1273	198.00	161282	296.00	10659
73.00	1145	137.00	1359	199.00	10388	297.00	1623
74.00	10834	141.00	5209	200.00	786	303.00	937
75.00	16463	142.00	1746	203.00	1061	315.00	947
76.00	2907	143.00	1011	204.00	5961	316.00	279
77.00	91645	146.00	614	205.00	9199	323.00	3004
78.00	6501	147.00	2581	206.00	36666	324.00	637
79.00	9445	148.00	5416	207.00	5713	327.00	583
80.00	5770	149.00	1059	208.00	1391	334.00	2101
81.00	8218	151.00	318	211.00	1428	335.00	251
82.00	1922	153.00	1574	216.00	1023	346.00	554
83.00	1824	154.00	997	217.00	12088	352.00	780
85.00	1485	155.00	2487	218.00	1056	353.00	766
86.00	2364	156.00	3128	221.00	4164	354.00	719
87.00	994	157.00	249	222.00	1485	365.00	4269
91.00	2167	158.00	660	223.00	2531	366.00	244
92.00	2182	159.00	291	224.00	21599	372.00	1386
93.00	14127	160.00	1621	225.00	4876	402.00	601
94.00	326	161.00	1995	227.00	10222	403.00	678
98.00	10321	162.00	297	228.00	1438	421.00	637
99.00	7511	165.00	1949	229.00	1309	422.00	341

Date: 26-JUL-96 07:04

Instrument: msd3.1

Sample ID: DFTPP02

Column phase:

Column diameter: 2.00

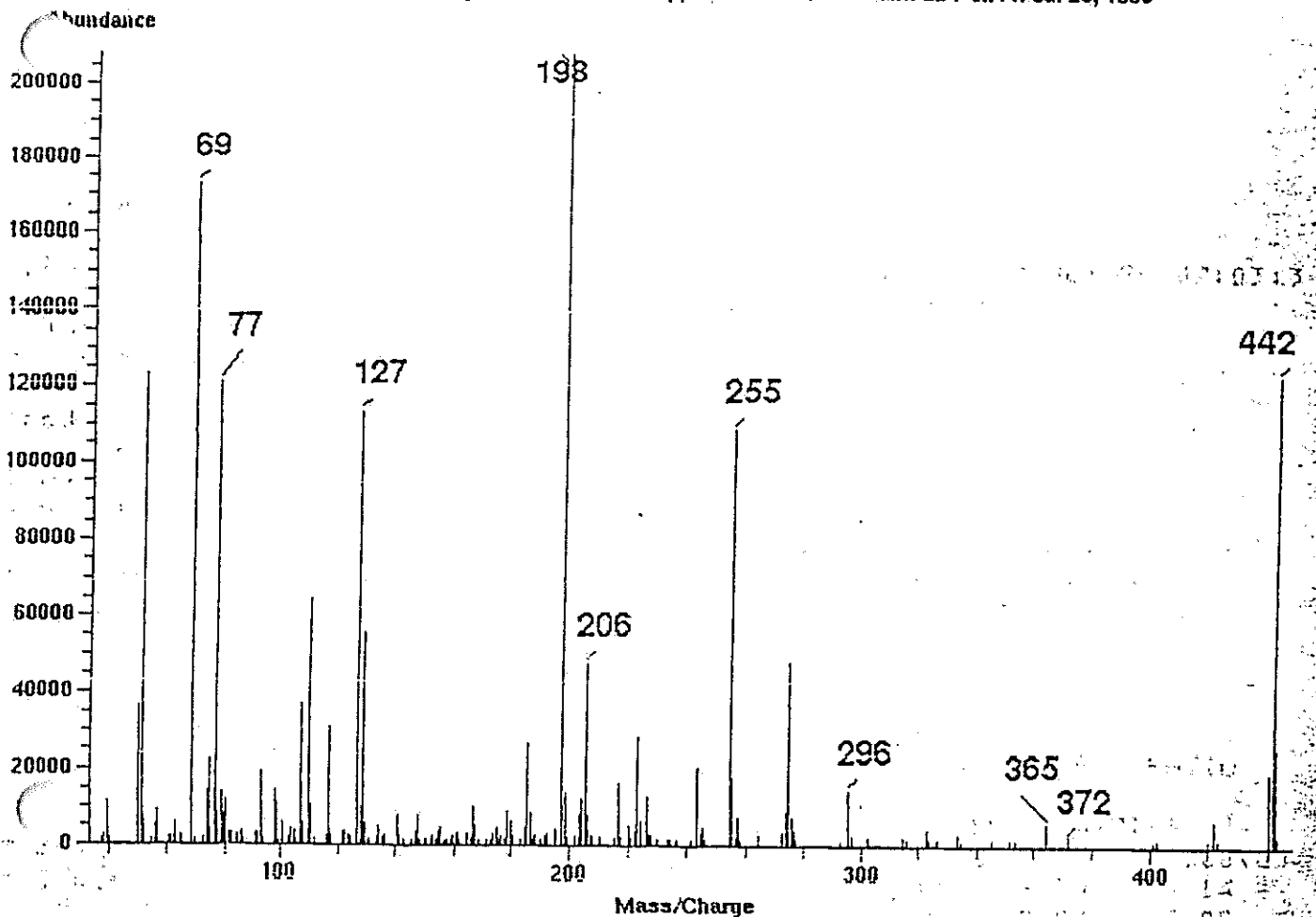
Volume Injected (uL): 1.0

Spectrum: Scan 340-342 (7.474 min) Subtraction Scan 336

Base Peak: 198.00

Number of mass peaks: 176

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
100.00	265	166.00	1448	231.00	617	423.00	5406
101.00	3680	167.00	7252	234.00	303	424.00	740
103.00	1492	168.00	3240	235.00	375	441.00	16298
104.00	2497	169.00	271	237.00	273	442.00	108762
105.00	2304	172.00	418	241.00	254	443.00	21094
107.00	26522	173.00	975	242.00	759	444.00	1616
108.00	3937	174.00	1715	243.00	269		
110.00	49800	175.00	2981	244.00	15144		
111.00	7299	176.00	542	245.00	2063		
112.00	387	177.00	1480	246.00	3555		



ssl	Ion abundance criteria	%relative abundance
1	30.0 - 60.0% of mass 198	59.0
8	Less than 2.0% of mass 69	0.0
9	Mass 69 relative abundance is	82.9
0	Less than 2.0% of mass 69	0.5
7	40.0 to 60.0% of mass 198	54.2
7	Less than 1.0% of mass 198	0.0
8	Base peak, 100% relative abundance	100.0
9	5.0 to 9.0% of mass 198	6.5
5	10.0 - 30.0% of mass 198	23.0
5	Greater than 1% of mass 198	2.5
1	Present, but less than mass 443	75.7
2	Greater than 40.0% of mass 198	59.1
3	17.0 - 23.0% of mass 442	20.4

EcoSys, Inc.

INITIAL CALIBRATION DATA

art Cal Date : 10-MAR-1993 11:35
 d Cal Date : 26-JUL-1996 12:37
 ant Method : ISTD
 l Curve Type : Averaged
 rget Version : Target 2.20
 egrator : HP RTE
 hod file : /chem/msd3.i/072696.b/MA-BNA_2.m
 l Date : 16-Aug-1996 10:34 target

Calibration File Names:

el 1: /chem/msd3.i/3-072696.b/BNA0201002.d
 el 2: /chem/msd3.i/3-072696.b/BNA0301003.d
 el 3: /chem/msd3.i/3-072696.b/BNA0601006.d
 el 4: /chem/msd3.i/3-072696.b/BNA0401004.d
 el 5: /chem/msd3.i/3-072696.b/BNA0501005.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
3 Aniline	1.99032	2.07605	2.13815	2.21344	2.08587	2.10077	3.920
4 Phenol **	2.06395	1.92241	1.92035	1.41411	1.78794	1.82175	13.608
5 Bis(2-chloroethyl) ether	1.81854	1.64686	1.56772	1.57310	1.46877	1.61500	8.063
6 2-Chlorophenol	1.47828	1.43605	1.41840	1.36306	1.26812	1.39278	5.818
7 1,3-Dichlorobenzene	1.58855	1.43483	1.45129	1.36650	1.40184	1.44860	5.848
9 1,4-Dichlorobenzene **	1.59544	1.50041	1.46226	1.40242	1.45937	1.48398	4.815
10 1,2-Dichlorobenzene	1.60551	1.46654	1.43850	1.35820	1.38256	1.45026	6.682
11 Benzyl alcohol	1.66221	1.71315	1.77957	1.87893	1.75241	1.75725	4.615
12 2-Methylphenol	1.41717	1.26815	1.25065	1.31127	1.17297	1.28404	6.984
13 Bis(2-chloroisopropyl) ether	2.64188	2.35390	2.30300	2.25931	2.08053	2.32773	8.746
14 4-Methylphenol	1.40387	1.37568	1.38172	1.29110	1.14327	1.31913	8.130
15 N-Nitrosodi-n-propylamine *	1.62533	1.42314	1.40418	1.35574	1.27165	1.41601	9.240
16 Hexachloroethane	0.94797	0.86678	0.82493	0.78240	0.79196	0.84281	8.000
18 Nitrobenzene	0.60523	0.65355	0.73674	0.93803	0.88180	0.87307	10.583
19 Isophorone	1.12293	1.18121	1.15915	1.21171	1.10047	1.15510	3.853
20 2-Nitrophenol **	0.26796	0.28685	0.28003	0.26998	0.25857	0.27268	4.032
21 2,4-Dimethylphenol	0.47995	0.50006	0.49314	0.49721	0.45466	0.48500	3.841
22 Bis(2-Chloroethoxy)methane	0.63280	0.57679	0.55661	0.55462	0.50364	0.56489	8.245
23 2,4-Dichlorophenol **	0.28023	0.29723	0.31099	0.32806	0.29383	0.30207	6.021
24 Benzoic acid	+++++	0.17171	0.19942	0.15042	0.19224	0.17845	12.367
25 1,2,4-Trichlorobenzene	0.37317	0.38390	0.38300	0.36038	0.37208	0.37451	2.560
27 Naphthalene	1.14599	1.08079	1.02580	0.99615	1.02519	1.05478	5.638
28 4-Chloroaniline	0.38051	0.36773	0.41234	0.42362	0.39691	0.39622	5.742
29 Hexachlorobutadiene **	0.29876	0.30487	0.30325	0.29335	0.29185	0.29841	1.938
30 2-Chloro-3-methylphenol **	0.42007	0.45028	0.42799	0.42803	0.39502	0.42428	4.681
31 2-Methylnaphthalene	0.66557	0.63521	0.69991	0.91631	0.91042	0.76548	17.889
32 Hexachlorocyclopentadiene *	0.21479	0.32703	0.37123	0.37674	0.39049	0.33606	21.376
33 2,4,6-Trichlorophenol **	0.32996	0.35541	0.34788	0.35766	0.33636	0.34545	3.476
34 2,4,5-Trichlorophenol	0.37034	0.38705	0.40724	0.41700	0.39318	0.39496	4.580

EcoSys, Inc.

INITIAL CALIBRATION DATA

art Cal Date : 10-MAR-1993 11:35
 d Cal Date : 26-JUL-1996 12:37
 ant Method : ISTD
 l Curve Type : Averaged
 rget Version : Target 2.20
 egrator : HP RTE
 thod file : /chem/msd3.i/072696.b/MA-BNA_2.m
 l Date : 16-Aug-1996 10:34 target

ibration File Names:

vel 1: /chem/msd3.i/3-072696.b/BNA0201002.d
 vel 2: /chem/msd3.i/3-072696.b/BNA0301003.d
 vel 3: /chem/msd3.i/3-072696.b/BNA0601006.d
 vel 4: /chem/msd3.i/3-072696.b/BNA0401004.d
 vel 5: /chem/msd3.i/3-072696.b/BNA0501005.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R ²
36 1-Chloronaphthalene	1.161971	1.088571	1.070251	1.021271	1.036981	1.075811	5.1121
37 2-Nitroaniline	0.509481	0.576261	0.576691	0.628451	0.578301	0.573841	7.3721
38 Dimethyl phthalate	1.553331	1.447491	1.385031	1.433011	1.269901	1.417751	7.2641
39 2,6-Dinitrotoluene	0.348481	0.350781	0.327111	0.317991	0.304291	0.329731	6.0411
40 Acenaphthylene	1.831141	1.683191	1.572281	1.486241	1.500751	1.614721	8.9111
41 3-Nitroaniline	0.237931	0.210481	0.270481	0.297121	0.275621	0.258331	13.2091
43 Acenaphthene **	1.118161	1.043591	1.003511	0.959061	0.948151	1.014501	6.8271
44 2,4-Dinitrophenol *	+++++	0.079141	0.118451	0.162551	0.152111	0.128061	29.4041
45 4-Nitrophenol *	0.060361	0.066411	0.069801	0.062421	0.055211	0.062841	8.9211
46 2,4-Dinitrotoluene	0.389451	0.431731	0.427831	0.447371	0.399801	0.419241	5.7031
47 Dibenzofuran	1.531511	1.453951	1.385471	1.341831	1.286941	1.399941	6.8311
48 Diethyl phthalate	1.655711	1.497561	1.476241	1.531941	1.372251	1.506741	6.7951
49 4-Chlorophenyl phenyl ether	0.643651	0.586411	0.581331	0.563341	0.539061	0.582761	6.6511
50 Fluorene	1.166891	1.072351	1.070171	1.032931	0.937771	1.066001	6.1991
51 4-Nitroaniline	0.158291	0.145591	0.161351	0.234481	0.208301	0.181601	20.8951
52 4,6-Dinitro-2-methylphenol	+++++	0.165641	0.190171	0.205921	0.190221	0.187991	8.8521
53 N-Nitrosodiphenylamine **	0.533141	0.488821	0.473471	0.432841	0.415061	0.468671	9.9761
54 1,2-Diphenylhydrazine	3.552221	3.298171	2.948241	3.140721	2.829001	3.153671	9.0731
56 4-Bromophenyl phenyl ether	0.327801	0.327841	0.315021	0.305091	0.302901	0.315731	3.7831
57 Hexachlorobenzene	0.351081	0.346751	0.349771	0.322381	0.333101	0.340611	3.6551
58 Pentachlorophenol **	+++++	0.048111	0.074171	0.100311	0.066641	0.072311	29.9351
60 Phenanthrene	1.180981	1.113551	1.074711	1.046861	0.999001	1.083021	6.3581
61 Anthracene	1.133471	1.108921	1.057861	1.022501	0.972821	1.059111	6.1191
62 Carbazole	0.988781	1.055071	1.113841	1.076771	0.962041	1.039301	6.0341
63 -butyl phthalate	1.894321	1.706631	1.681911	1.676381	1.436891	1.679231	9.6831
64 -uranthene **	0.996231	1.010201	1.017151	1.008681	0.937521	0.993951	3.2641
65 Pyrene	1.851091	1.821721	1.808501	1.717111	1.722711	1.784231	3.4041
67 Butyl benzyl phthalate	1.001681	0.982011	1.012801	1.050241	0.958491	1.001041	3.4361
68 Dioctyl adipate	0.806601	0.746051	0.748311	0.742021	0.679401	0.744481	6.0511

EcoSys, Inc.

INITIAL CALIBRATION DATA

ant Cal Date : 10-MAR-1993 11:35
 d Cal Date : 26-JUL-1996 12:37
 ant Method : ISTD
 l Curve Type : Averaged
 nget Version : Target 2.20
 egrator : HP RTE
 thod file : /chem/msd3.i/072696.b/MA-BNA_2.m
 l Date : 16-Aug-1996 10:34 target

Calibration File Names:

vel 1: /chem/msd3.i/3-072696.b/BNA0201002.d
 vel 2: /chem/msd3.i/3-072696.b/BNA0301003.d
 vel 3: /chem/msd3.i/3-072696.b/BNA0601006.d
 vel 4: /chem/msd3.i/3-072696.b/BNA0401004.d
 vel 5: /chem/msd3.i/3-072696.b/BNA0501005.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
69 1,1'-Dichlorobenzidine	0.257851	0.185761	0.257851	0.388891	0.257871	0.269651	27.2991
70 Bis(2-ethylhexyl) phthalate	1.408751	1.295001	1.317911	1.423621	1.225021	1.334061	6.1901
71 Benz(a)anthracene	1.207571	1.252451	1.262751	1.270871	1.256311	1.249991	1.9781
73 Chrysene	1.224971	1.205711	1.206741	1.168661	1.147081	1.190631	2.6711
74 Di-n-octyl phthalate **	2.965741	2.893671	2.815001	2.690271	2.651371	2.803211	4.7381
75 Benzo(b)fluoranthene	1.412461	1.531211	1.491301	1.410731	1.535811	1.476301	4.1691
76 Benzo(k)fluoranthene	1.612301	1.604901	1.659741	1.595551	1.425161	1.579531	5.6841
77 Benzo(a)pyrene **	1.342131	1.440771	1.397811	1.333811	1.405981	1.384101	3.2651
79 Indeno(1,2,3-cd)pyrene	1.060041	1.207681	1.250281	1.220661	1.268391	1.201411	6.8721
80 Dibenz(a,h)anthracene	1.050091	1.175681	1.279171	1.265561	1.299581	1.214021	8.4971
81 Benzo(g,h,i)perylene	1.060041	1.207681	1.250281	1.220661	1.268391	1.201411	6.8721
1 2-Fluorophenol	1.235581	1.198121	1.257111	1.399951	1.288481	1.275851	6.0171
2 Phenol-d5	1.977771	1.741661	1.910371	1.997681	1.823701	1.823701	5.6891
17 Nitrobenzene-d5	0.724331	0.749671	0.726641	0.736001	0.699991	0.727331	2.5081
35 2-Fluorobiphenyl	1.498631	1.332751	1.298881	1.295961	1.284691	1.342181	6.6521
55 2,4,6-Tribromophenol	0.148781	0.187301	0.204221	0.220321	0.207141	0.193551	14.2891
66 Terphenyl-d14	1.238121	1.202431	1.204551	1.203781	1.182201	1.206211	1.6671

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: USACE SADLedger No: 107999DFTPP Injection Date: 8/2/96Lab File ID: DFTPP080296DFTPP Injection Time: 14:49Instrument ID: MSD-3Batch Number: 0802960008

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	68.2 (1)
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	49.4
197	Less than 1.0% of mass 198	0.0 (1)
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	69.9
442	Greater than 40% of mass 198	68.4
443	17.0 - 23.0% of mass 442	21.3 (2)

1-Value is % mass 69

2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	01 NA	CCV	BNA0101001	08/02/96	3:11 PM
	02 NA	AB36700 MS	BNA0801008	08/02/96	9:13 PM
	03 NA	AB36701 MSD	BNA0901009	08/02/96	10:03 PM
	04 NA	AB36702 LCS	BNA0301003	08/02/96	4:51 PM
	05 NA	AB36436 MB	BNA0201002	08/02/96	4:01 PM
	06 8101-TK74-S1	AB36433	BNA1101011	08/02/96	11:47 PM
	07 8101-TK93-S1	AB36434	BNA1201012	08/03/96	12:59 AM

NA: Not Applicable

Comments:


 QA/QC OFFICER

ata File: /chem/msd3.1/3-080296.b/DFTPP080296.d
Report Date: 02-Aug-1996 15:05

Page 1

EcoSys, Inc.

ata file : /chem/msd3.1/3-080296.b/DFTPP080296.d
ab. Id. : DFTPP02
nj Date : 02-AUG-96 14:49 Autotune Date: 29-Jul-96 08:01:1
operator : GORDON Inst ID: msd3.1
mp Info : 50ng OF DFT-05-(39)
iso Info : INSTRUMENT TUNE FOR msd3.1
omment :
ethod : /chem/msd3.1/3-080296.b/dftpp298.m
eth Date : 02-Aug-1996 06:44
al Date : Cal File:
is bottle: 1 QC Sample: DFTPP
il Factor: 1.000 Target Version: Target 2.20
ntegrator: HP RTE Compound Sublist: ali.sub
ample Type: WATER

CONCENTRATIONS
ON-COL FINAL

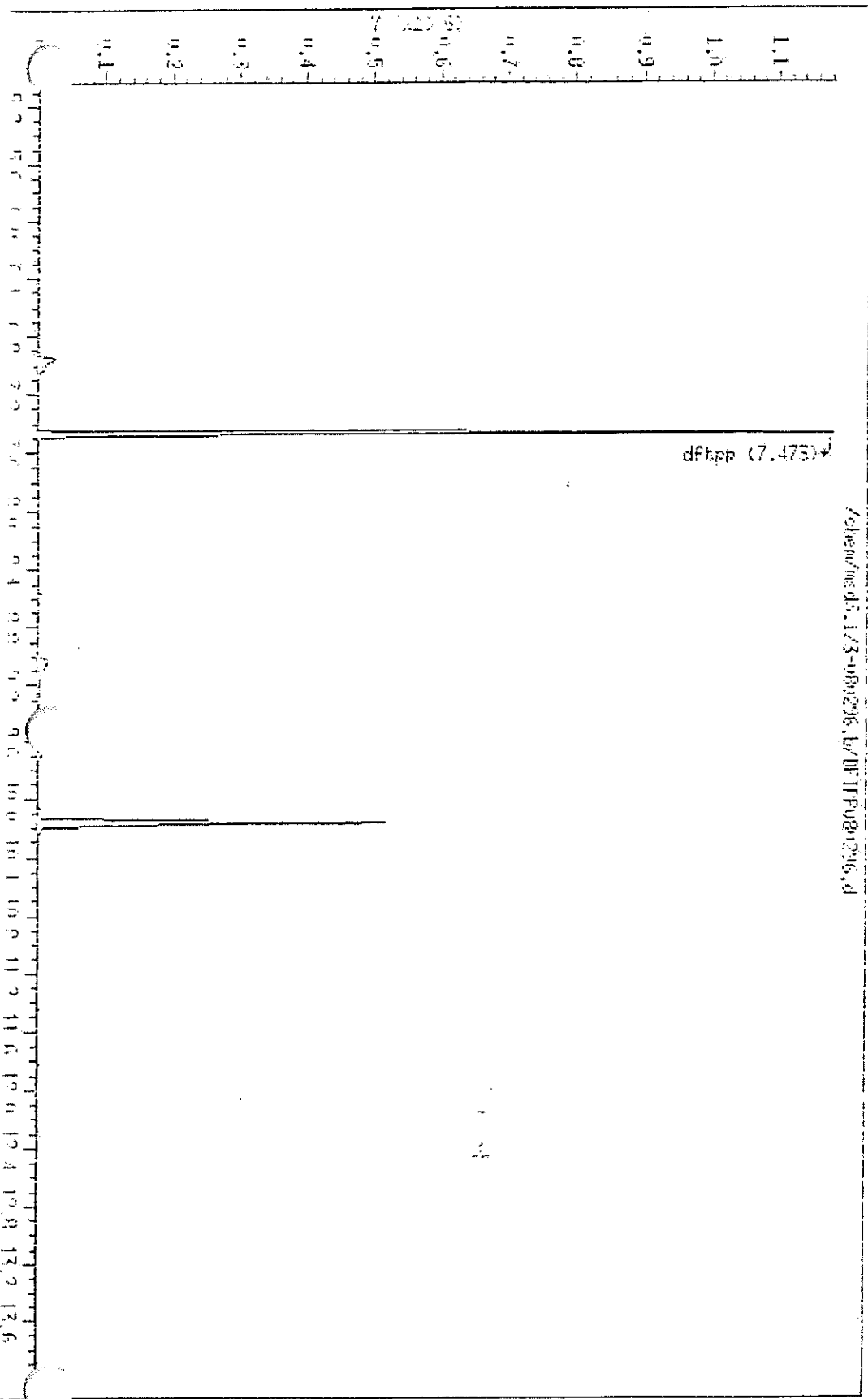
PT (REL RT) MASS	RESPONSE (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp			CAS #: 5074-71-5	
7.473(0.000) 198	95029			100.00(0)
7.473(0.000) 51	51728		0.00- 0.00	54.43
7.473(0.000) 68	0		0.00- 0.00	0.00
7.473(0.000) 69	62466		0.00- 0.00	72.05
7.473(0.000) 70	0		0.00- 0.00	0.00
7.473(0.000) 127	48605		0.00- 0.00	51.15
7.473(0.000) 127	0		0.00- 0.00	0.00
7.473(0.000) 199	5906		0.00- 0.00	6.21
7.473(0.000) 275	21696		0.00- 0.00	22.83
7.473(0.000) 365	2478		0.00- 0.00	2.61
7.473(0.000) 441	9919		0.00- 0.00	73.90
7.473(0.000) 442	65272		0.00- 0.00	68.69
7.473(0.000) 443	13423		0.00- 0.00	20.56

Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/mcd3.1/3-080296.h/DFTP080296.d
Date : 02-AUG-96 14:49
Instrument : mcd3.1
Sample ID : JFTTP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.0mm



File: /chem/orig/11/T-080296.b/BFTPP080296.d

Page 4

: 02-AUG-96 14:49

Instrument : mod3.1

Sample ID : BFTPP02

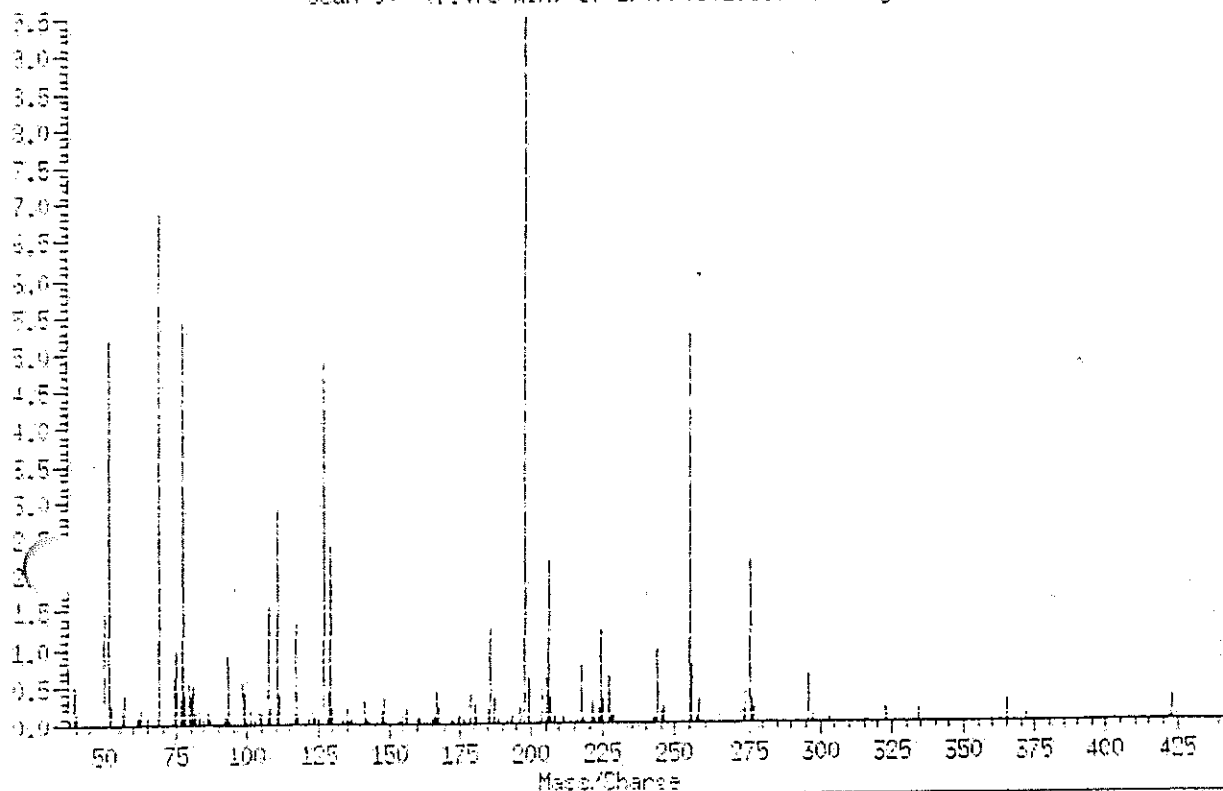
Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp

Scan 540 (7.475 min) of BFTPP080296.d (Averaged)



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
199	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	54.4
63	Mass 63 relative abundance	0.0
69	Mass 69 relative abundance	72.0
70	Mass 70 relative abundance	0.0
127	Mass 127 relative abundance	51.1
137	Mass 137 relative abundance	0.0
199	Mass 199 relative abundance	6.2
275	Mass 275 relative abundance	22.8
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	73.9
442	Mass 442 relative abundance	68.7
443	Mass 443 relative abundance	20.6

: 02-AUG-98 14:49

Instrument : med5.1

Sample ID : DFTFP02

Column phase :

Column diameter : 2.00

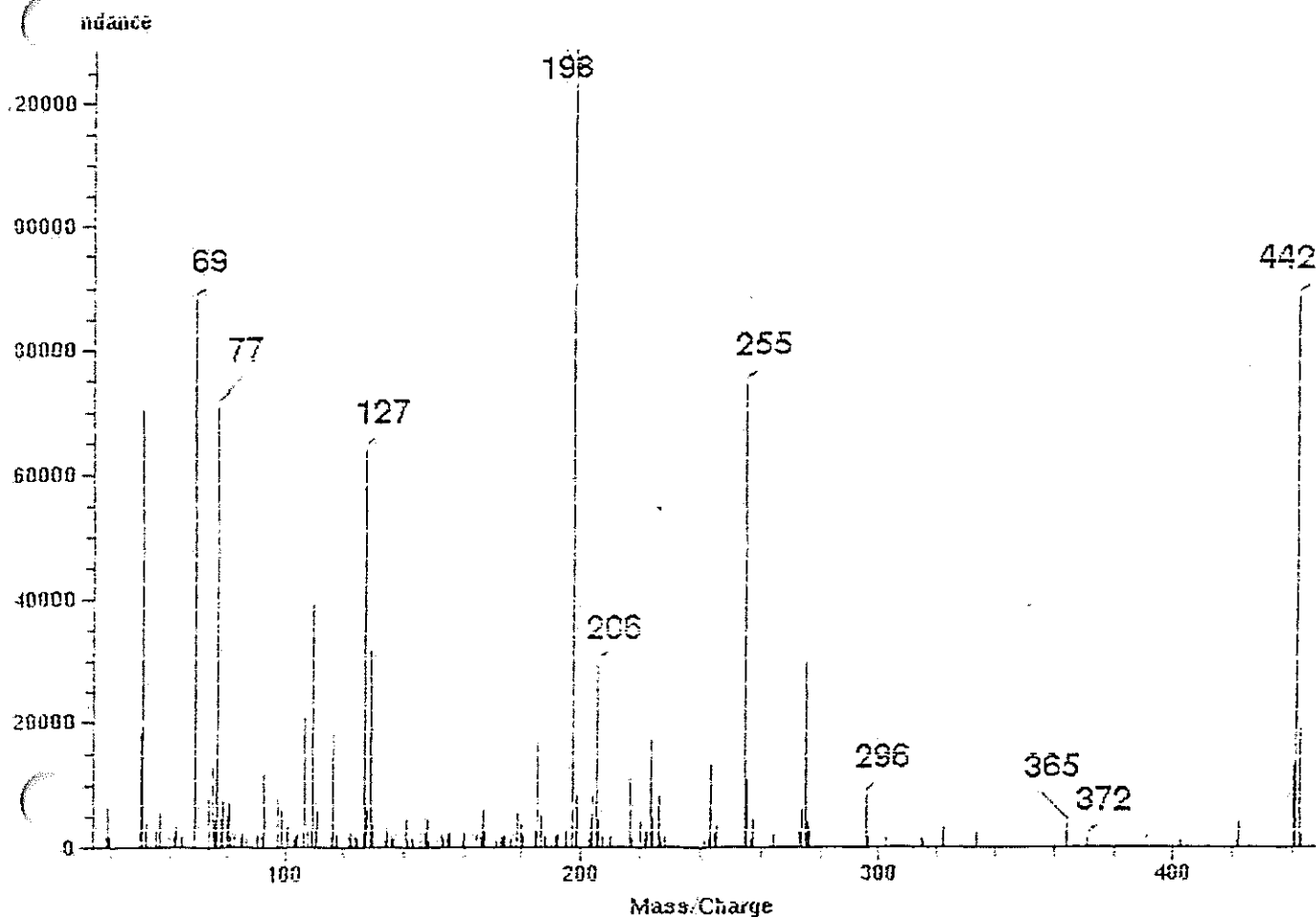
Volume Injected (uL) : 1.0

Spectrum: Scan 340-342 (7.473 min) Subtraction Scan 336

Base Peak: 193.00

Number of mass peaks: 153

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
58.00	725	104.00	1459	166.00	737	227.00	6079
59.00	4997	105.00	1199	167.00	4222	228.00	742
60.00	14740	107.00	15455	168.00	1925	229.00	363
61.00	51738	108.00	1994	172.00	502	242.00	551
62.00	2404	110.00	28738	173.00	595	243.00	655
66.00	1525	111.00	3840	174.00	836	244.00	9705
67.00	3774	115.00	1062	175.00	1492	245.00	1413
61.00	783	117.00	13354	177.00	595	246.00	2122
62.00	738	119.00	936	179.00	3735	255.00	52448
63.00	2143	122.00	938	180.00	2446	256.00	7464
65.00	821	127.00	1866	181.00	894	257.00	552
69.00	68468	124.00	785	185.00	1613	258.00	2871
73.00	252	125.00	866	186.00	12371	265.00	1217
74.00	2468	127.00	48605	187.00	3320	273.00	1575
75.00	9681	128.00	4262	189.00	679	274.00	4029
76.00	3550	129.00	23730	192.00	1121	275.00	21696
77.00	54048	130.00	1921	193.00	1285	276.00	2697
79.00	3836	134.00	529	196.00	1926	277.00	1746
79.00	5107	135.00	1773	198.00	95029	296.00	5986
80.00	3553	136.00	305	199.00	5906	297.00	775
81.00	5670	137.00	687	203.00	333	303.00	553
82.00	1018	141.00	2858	204.00	3462	315.00	532
83.00	759	142.00	532	205.00	5975	316.00	243
85.00	724	143.00	280	206.00	21767	323.00	1759
86.00	1317	146.00	235	207.00	3198	334.00	1327
87.00	602	147.00	1325	208.00	764	365.00	2478
91.00	1053	149.00	3214	211.00	741	372.00	889
92.00	950	149.00	250	216.00	255	403.00	260
95.00	9149	155.00	933	217.00	7621	422.00	246
94.00	243	154.00	317	218.00	720	423.00	2828
98.00	6429	155.00	1176	221.00	2758	441.00	9919
99.00	4210	156.00	1778	222.00	687	442.00	65272
100.00	257	160.00	696	223.00	1716	443.00	13423
101.00	1682	161.00	961	224.00	12239	444.00	1133
103.00	719	165.00	926	225.00	2895		



Ion abundance criteria	%relative abundance
30.0 - 60.0% of mass 198	54.6
Less than 2.0% of mass 69	0.0
Mass 69 relative abundance is	68.2
Less than 2.0% of mass 69	0.0
40.0 to 60.0% of mass 198	49.4
Less than 1.0% of mass 198	0.0
Base peak, 100% relative abundance	100.0
5.0 to 9.0% of mass 198	6.2
10.0 - 30.0% of mass 198	22.9
Greater than 1% of mass 198	2.7
Present, but less than mass 443	69.9
Greater than 40.0% of mass 198	68.4
17.0 - 23.0% of mass 442	21.5

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.1 Injection Date: 02-AUG-1996 15:11
 File ID: BNA0101001.d Init. Calibration Date(s): 03/10/93 07/29/96
 Analysis Type: WATER Init. Calibration Times: 11:35 08:30
 Sample ID: Method File: /chem/msd3.1/3-080296.b/MA-BNA_2.m

COMPOUND	RRF	RF90	MIN	MAX
=====	=====	=====	=====	=====
12-Fluorophenol	1.163	1.323	0.050	13.7
Phenol-d5	1.838	1.879	0.050	2.2
Aniline	2.065	2.080	0.050	0.7
Phenol **	1.799	1.924	0.050	6.9
Bis(2-chloroethyl) ether	1.619	1.710	0.050	5.6
2-Chlorophenol	1.388	1.378	0.050	0.7
1,3-Dichlorobenzene	1.439	1.412	0.050	1.8
1,4-Dichlorobenzene **	1.483	1.430	0.050	3.6
1,2-Dichlorobenzene	1.443	1.400	0.050	3.0
Benzyl alcohol	1.756	1.786	0.050	1.7
2-Methylphenol	1.284	1.264	0.050	1.5
Bis(2-chloroisopropyl) ether	2.323	2.502	0.050	8.0
3-Methylphenol	1.177	1.296	0.050	10.1
N-Nitrosodi-n-propylamine *	1.418	1.466	0.050	3.3
Hexachloroethane	0.844	0.880	0.050	4.2
Nitrobenzene-d5	0.729	0.723	0.050	0.9
Nitrobenzene	0.770	0.896	0.050	16.3
Isophorone	1.155	1.219	0.050	5.5
2-Nitrophenol **	0.270	0.274	0.050	1.2
2,4-Dimethylphenol	0.486	0.502	0.050	3.4
Bis(2-Chloroethoxy)methane	0.564	0.569	0.050	1.0
2,4-Dichlorophenol **	0.301	0.321	0.050	6.6
Benzoic acid	0.178	0.211	0.010	13.0
1,2,4-Trichlorobenzene	0.374	0.372	0.050	0.6
Naphthalene	1.053	1.026	0.050	2.5
4-Chloroaniline	0.379	0.357	0.050	6.0
Hexachlorobutadiene **	0.300	0.305	0.050	1.5
4-Chloro-3-methylphenol **	0.420	0.367	0.050	5.4
2-Methylnaphthalene	0.754	0.896	0.050	18.8
Hexachlorocyclopentadiene *	0.328	0.399	0.050	21.7
2,4,6-Trichlorophenol **	0.339	0.325	0.050	4.1
2,4,5-Trichlorophenol	0.379	0.344	0.050	9.2
2-Fluorobiphenyl	1.342	1.201	0.050	10.5
2-Chloronaphthalene	1.069	0.965	0.050	9.7
2-Nitroaniline	0.570	0.508	0.050	10.7
Dimethyl phthalate	1.423	1.335	0.050	6.1
2,6-Dinitrotoluene	0.328	0.301	0.050	8.2
Acenaphthylene	1.615	1.530	0.050	5.3
3-Nitroaniline	0.220	0.192	0.050	12.3
Acenaphthene **	1.013	0.970	0.050	4.3
2,4-Dinitrophenol *	0.128	0.119	0.050	8.2
4-Nitrophenol *	0.099	0.078	0.050	21.6
2,4-Dinitrotoluene	0.416	0.385	0.050	7.4
Dibenzofuran	1.400	1.310	0.050	6.5
2,6-Dinitrophenol	0.550	0.470	0.050	7.4

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.1 Injection Date: 02-AUG-1996 15:11
 File ID: SNA0101001.d Init. Calibration Date(s): 03/10/93 07/29/96
 Analysis Type: WATER Init. Calibration Times: 11:35 08:30
 Sample ID: Method File: /chem/msd3.1/3-090296.b/NA-SNA_2.m

COMPOUND	PRF	RF80	MIN	PRF	%D	MAX
4-Chlorophenyl phenyl ether	0.572	0.536	0.050	7.4	30.0	
Fluorene	1.062	1.029	0.050	3.1	30.0	
4-Nitroaniline	0.156	0.122	0.050	21.5	30.0	
4,6-Dinitro-2-methylphenol	0.162	0.177	0.050	5.3	30.0	
N-Nitrosodiphenylamine **	0.466	0.436	0.050	6.5	30.0	
1,2-Diphenylhydrazine	3.235	3.308	0.050	2.3	30.0	
2,4,6-Tribromophenol	0.132	0.177	0.050	5.0	30.0	
4-Bromophenyl phenyl ether	0.316	0.297	0.050	9.1	30.0	
Hexachlorobenzene	0.343	0.354	0.050	3.3	30.0	
Pentachlorophenol **	0.058	0.075	0.050	29.9	30.0	
Phenanthrene	1.081	1.071	0.050	0.9	30.0	
Anthracene	1.056	1.057	0.050	0.2	30.0	
Carbazole	0.996	0.967	0.050	3.0	30.0	
n-n-butyl phthalate	1.679	1.836	0.050	9.3	30.0	
Fluoranthene **	0.965	1.042	0.050	8.0	30.0	
Pyrene	1.609	1.776	0.050	1.8	30.0	
Terphenyl-d14	1.224	1.127	0.050	7.9	30.0	
Butyl benzyl phthalate	1.012	1.046	0.050	3.4	30.0	
Dioctyl adipate	0.765	0.815	0.050	6.6	30.0	
3,3'-Dichlorobenzidine	0.254	0.191	0.050	24.6	30.0	
Bis(2-ethylhexyl) phthalate	1.352	1.424	0.050	5.3	30.0	
Benz(a)anthracene	1.249	1.242	0.050	0.6	30.0	
Chrysene	1.190	1.213	0.050	2.0	30.0	
D:n-octyl phthalate **	2.813	2.936	0.050	4.4	30.0	
Benzo(b)fluoranthene	1.470	1.573	0.050	7.0	30.0	
Benzo(k)fluoranthene	1.554	1.502	0.050	3.4	30.0	
Benzo(a)pyrene **	1.386	1.458	0.050	5.2	30.0	
Indeno(1,2,3-cd)pyrene	1.188	1.323	0.050	11.4	30.0	
Dibenz(a,h)anthracene	1.197	1.234	0.050	3.1	30.0	
Benzo(g,h,i)perylene	1.188	1.315	0.050	10.8	30.0	

EcoSys, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msd3.1
 File ID: BNA0101001.d
 Sample ID:
 Analysis Type: SU
 Method File: \chem\msd3.1\3-080296.b\MA-BNA_2.m
 Info: CONTINUE CALIBRATION

Calibration Date: 08/02/96
 Calibration Time: 1600
 Sample Type: WATER
 Level: LOW

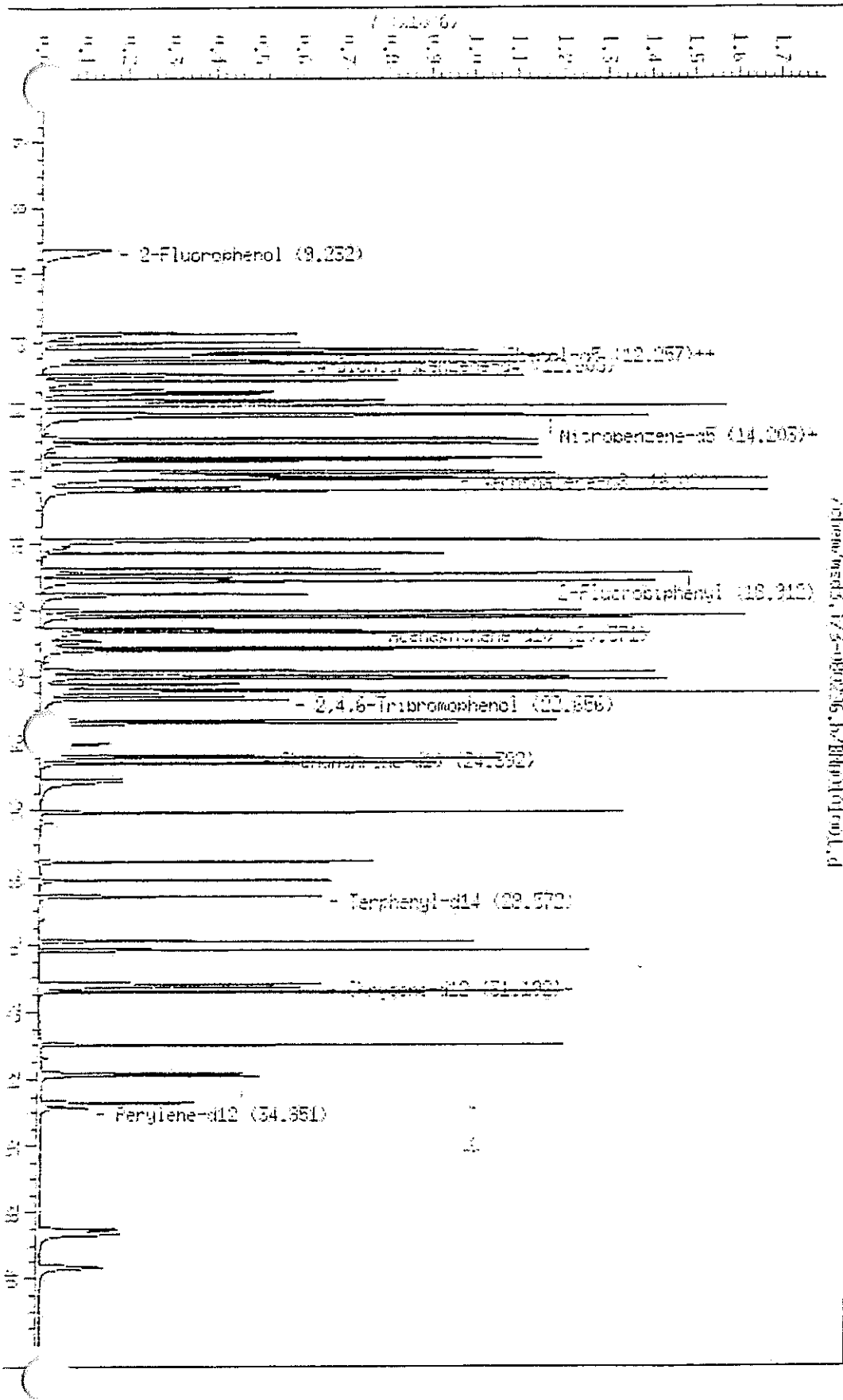
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	% DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenzene-	166643	83321	333286	166643	0.00
26 Naphthalene-d8	575590	287795	1151180	575590	0.00
42 Acenaphthene-d10	352008	176004	704016	352008	0.00
52 Phenanthrene-d10	383206	191603	766412	383206	0.00
72 Chrysene-d12	228498	114249	456996	228498	0.00
78 Perylene-d12	184520	92260	369040	184520	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	% DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenzene-	12.60	12.10	13.10	12.60	0.00
26 Naphthalene-d8	16.02	15.52	16.52	16.02	0.00
42 Acenaphthene-d10	20.57	20.07	21.07	20.57	0.00
52 Phenanthrene-d10	24.39	23.89	24.89	24.39	0.00
72 Chrysene-d12	31.21	30.71	31.71	31.21	0.00
78 Perylene-d12	34.85	34.35	35.35	34.85	0.00

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

Data File: /chem/msd3,1/3-090296.b/BHT010101.d
 Date: 02-06-1996 15:11
 Instrument: msd3.1
 Sample ID:
 Column phase:
 Volume injected (ul): 1.0

Column diameter: 0.20



SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	Extraction Method No.: 3550
Batch No(s): 0802960008	Date Extracted: 8/2/96
Lab File ID: BNA0201002	Date Analyzed: 8/2/96
Lab Sample ID: AB36436	Time Analyzed: 4:01
Cleanup Method: NA	Level: Low
Instrument ID: MSD-3	Matrix: Soil

This method blank applies to the following samples, LCS, MS, and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36702 LCS	BNA0301003	8/2/96
2	NA	AB36700 MS	BNA0801008	8/2/96
3	NA	AB36701 MSD	BNA0901009	8/2/96
4	8101-TK74-S1	AB36433	BNA1101011	8/2/96
5	8101-TK93-S1	AB36434	BNA1201012	8/3/96
6				
7				
8				
9				
10				

Robert L. L...
QA/QC Officer

Comments:

SemiVolatile LCS Recovery

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107999

Lab Control Spike: AB36702 LCS

Batch No(s): 0802960008

Lab File ID: BNA0301003

Compound	Spike Added (ug/Kg)	Sample	LCS	LCS % Recovery	#	QC Limits Recovery
		Conc (ug/Kg)	Conc (ug/Kg)			
Phenol	3330	NR	2120	64		26-90
2-Chlorophenol	3330	NR	2200	66		25-102
1,4-Dichlorobezene	1670	NR	1220	73		28-104
N-Nitroso-di-n-propylamine	1670	NR	1210	72		41-126
1,2,4-Trichlorobenzene	1670	NR	1100	66		38-107
4-Chloro-3-methylphenol	3330	NR	2640	79		26-103
Acenaphthene	1670	NR	1370	82		31-137
4-Nitrophenol	3330	NR	3210	96		11-114
2,4-Dinitrotoluene	1670	NR	1060	63		28-89
Pentachlorophenol	3330	NR	2480	74		17-109
Pyrene	1670	NR	1430	86		35-142

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

* Values outside of QC limits

NR = Not Required

Spike Recovery: 0 out of 11 outside limits

Robert L. L...
 QA/QC Officer

Comments: _____

SemiVolatile Surrogate Recovery (Soil)

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	Level: Low
Batch No.(s): 0802960008	Matrix: Soil

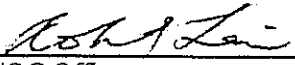
Lab	S1	S2	S3	S4	S5	S6	Total
Sample No.	(2FP) #	(PHL) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	Out
AB36436 MB	72	63	74	81	73	97	0
AB36702 LCS	71	68	62	77	70	90	0
AB36700 MS	59	55	55	76	76	84	0
AB36701 MSD	49	44	39	62	71	84	0
AB36433	49	41	43	64	65	77	0
AB36434	45	39	45	63	57	75	0

Column used to flag recovery values

* = Values outside of required QC limits

ND = Not Detected

	QC Limits
S1 (2FP) 2-Fluorophenol	25-121
S2 (PHL) Phenol-d5	24-113
S3 (NBZ) Nitrobenzene-d5	23-120
S4 (FBP) 2-Fluorobiphenyl	30-115
S5 (TBP) 2,4,6-Tribromophenol	19-122
S6 (TPH) Terphenyl-d14	18-137

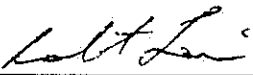

 QA/QC Officer

Comments: _____

General Chemistry Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger: 107999	
Lab Sample ID: AB36436	Client Sample ID: Method Blank
	Prep Date: 7/31/96
	Batch ID: 7/31/96

	ANALYTE	BLANK VALUE	MDL mg/Kg	DATE ANALYZED
1	TPH 418.1	<MDL	5.0	7/31/96
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				


 QA/QC Officer

Comments:

**General Chemistry LCS
Recovery**

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	

LCS

	Spike Added mg/Kg	Sample Conc. mg/Kg	LCS Conc. mg/Kg	LCS % Recovery	QC Limits Required
TPH 418.1	199.5	NR	183	92	80-120

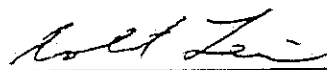
LCSD

	LCSD Conc. mg/Kg	LCSD % Recovery	% RPD	% RPD Limits
TPH 418.1	180	90	1.7	20

NR = Not Required

ND = Not Detected

NC = Not Calculable due to value(s) less than CRDL



QA/QC Officer

Comments:

General Chemistry Duplicate Recovery

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	

Sample 36322

	Sample Result (mg/Kg)	Dup. Sample Result (mg/Kg)	% RPD
TPH 418.1	14150	13200	6.9

RPD Limit 20%

NR = Not Required

ND = Not Detected

NC = Not Calculable due to value(s) less than CRDL


 QA/QC Officer

Comments:

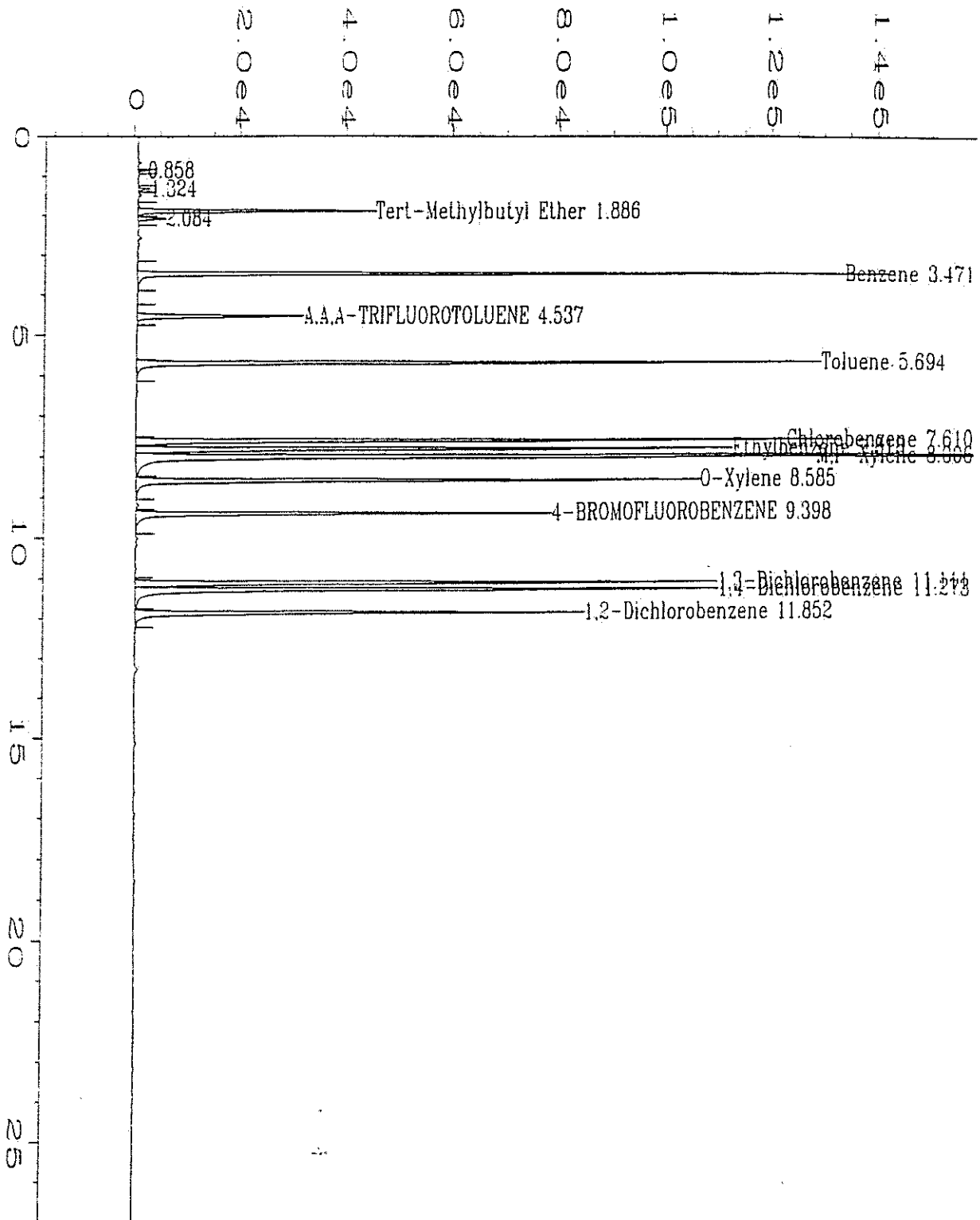
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\B080596\30805F01.D
 Operator : Doug Anderson Page Number : 1
 Instrument : GC3 Vial Number : 1
 Sample Name : 20ppb 8020 ccv Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 05 Aug 96 10:08 AM Instrument Method: 3B080196.MTH
 Report Created on: 19 Aug 96 01:37 PM Analysis Method : 3B080196.MTH
 Last Recalib on : 02 AUG 96 07:23 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\B080596\30805F01.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.886	168195	BV	0.059	1	19.508	Tert-Methylbutyl Ether
3.471	508251	PB	0.056	1	19.461	Benzene
4.537	129708	PB	0.065	1	14.872	A,A,A-TRIFLUOROTOLUENE
5.694	493763	BB	0.060	1	19.518	Toluene
7.610	500005	BV	0.059	1	19.592	Chlorobenzene
7.818	451085	VV	0.063	1	19.772	Ethylbenzene
8.006	1049815	VV	0.064	1	39.935	M,P-Xylene
8.585	440774	VB	0.064	1	19.843	O-Xylene
9.398	312842	PB	0.062	1	15.621	4-BROMOFLUOROBENZENE
11.111	442053	BV	0.063	1	19.867	1,3-Dichlorobenzene
11.273	474686	VV	0.066	1	20.416	1,4-Dichlorobenzene
11.852	349398	VB	0.064	1	19.646	1,2-Dichlorobenzene

08054600



Data File Name	: C:\HPCHEM\1\DATA\B080596\30805F01.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 1
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 3B080196.MTH
Acquired on	: 05 Aug 96 10:08 AM	Analysis Method	: 3B080196.MTH
Report Created on	: 19 Aug 96 01:37 PM	Sample Amount	: 0
Last Recalib on	: 02 AUG 96 07:23 AM	ISTD Amount	:
Multiplier	: 1		

BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107999	
Batch No: 080596BW	Date Analyzed: 8/5/96
Lab File ID: 30805F02	Time Analyzed: 10:44
Lab Sample ID: AB36437	Level: Low
Instrument ID: GC3	Matrix: Water

This method blank applies to the following samples, LCS, MS, and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36716 LCS	30805F03	8/5/96
2	NA	AB36717 MS	30805F04	8/5/96
3	NA	AB36718 MSD	30805F05	8/5/96
4	TRIP BLANK	AB36435	30805F06	8/5/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable



QA/QC Officer

Comments:

Water BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.
 Ledger No: 107999
 Batch No: 080596BW
 Lab File ID: 30805F04/30805F05

Client: ACE-SAD
 Matrix Spike/Matrix Dup No.: AB36435 REF
 AB36717 MS
 AB36718 MSD
 Level (Low/Med): Low

Compound	Spike Added (ug/L)	Sample Conc (ug/L)	MS Conc (ug/L)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	86		80-120
Toluene	20	ND	18	88		80-120
Ethylbenzene	20	ND	18	88		80-120
m,p-Xylene	40	ND	35	88		80-120
o-Xylene	20	ND	18	89		80-120

Compound	Spike Added (ug/L)	MSD Conc (ug/L)	MSD % Recovery	#	% RPD	#	QC Limits	
Benzene	20	17	84		2		RPD	Recovery
Toluene	20	17	85		3		30	80-120
Ethylbenzene	20	17	86		2		30	80-120
m,p-Xylene	40	34	86		2		30	80-120
o-Xylene	20	17	86		3		30	80-120

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

* Values outside of OC limits

ND = None Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

[Signature]
 QA/QC Officer

Comments: _____

TAB 9

MANIFESTS

CLOSURE REPORT ADDENDUM
UST #74, FACILITY ID. NO. 9-089072

MANIFESTS
TAB 9

Excavation of Contaminated Soil and Supporting Manifests

Anderson Columbia Environmental was contracted to remove 67 USTs. Soil excavated from UST sites during mobilization was stockpiled in a designated area. All contaminated soil removed during the **entire** project (i.e., to include clean and non-clean closures) was tested and manifested at the **end** of the project prior to transportation and disposal at Kedesh, Inc., Highway 84, Ludowici, Georgia 31316. Thus, the Installation cannot provide a "specific" manifest for any one site. The Installation has records of all manifests and weight tickets for this project. However, site/UST specific information is not available.

I certify that the above information is true and accurate. If GA EPD USTMP would like copies of all manifests and weight tickets for the numerous UST removal contracts that we have conducted, we will gladly forward copies to the USTMP.

Name: Dale F. Kiefer

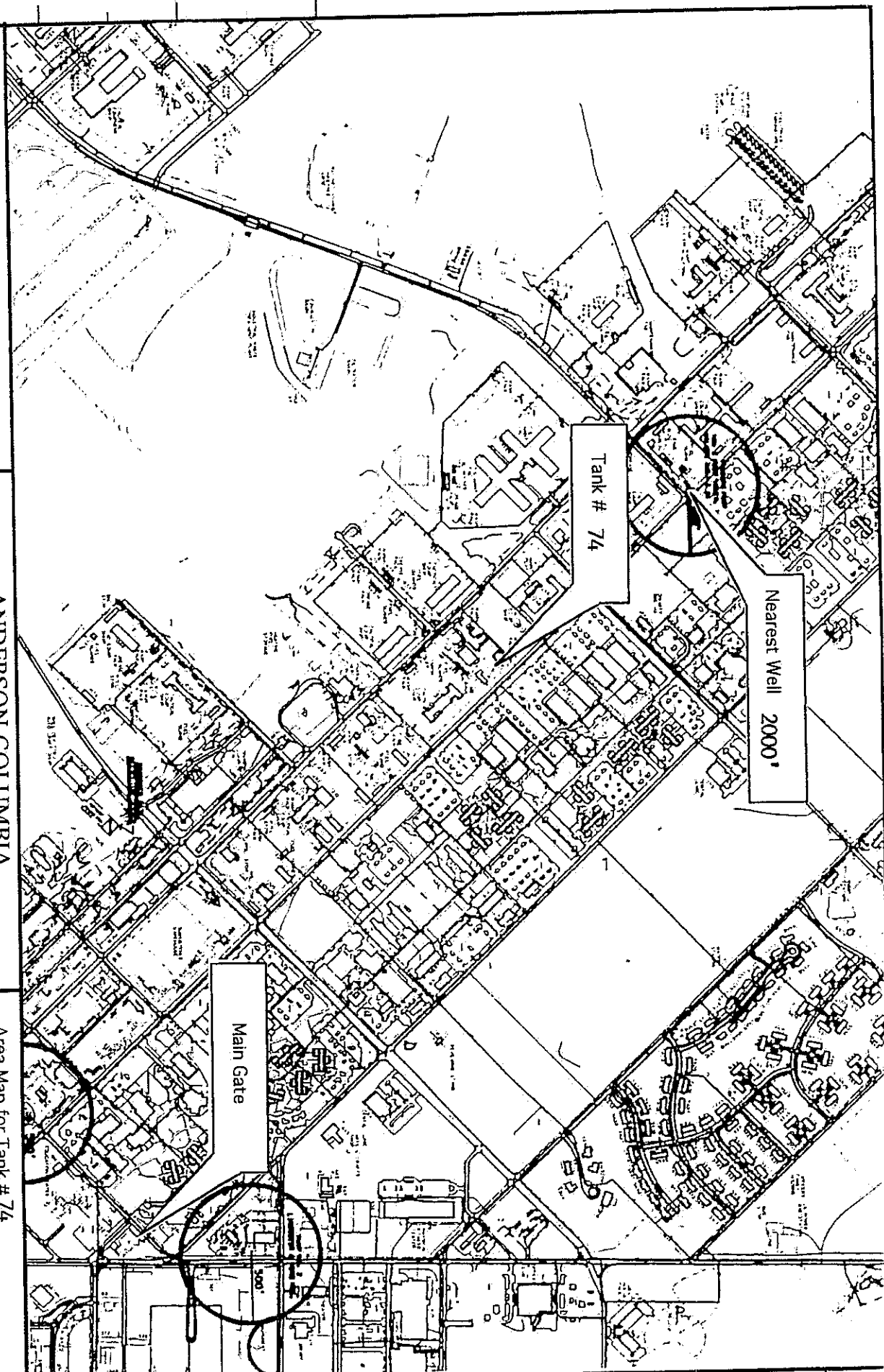
Title: Chief, Environmental
Natural Resources Division

Signature: Dale F. Kiefer Date: 3 April 98

NO MANIFESTS ARE
APPLICABLE TO THIS CLEAN
SITE.

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart

DR. A/R CH'D SRC DR. APP. DFB
ENGR. ENGR'G DEPT.
DATE 9 Oct 96 SCALE 1"=1000'

ANDERSON COLUMBIA

ENVIRONMENTAL INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

Area Map for Tank # 74
Fort Stewart
Hinesville, Georgia

DRAWING NO.: FIGURE 1