

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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 260, TANK 201-A
FACILITY ID NUMBER: 9-089043
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 Enviornmental, Inc.

TAB 1

GEORGIA CLOSURE REPORT
FORMS

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



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) 767-2010/1234
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 260
Street Address: FAC 260
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089043

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: 11/4/96

Closure for

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 = 10 ft
- 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: 11-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
201-A	1000	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
- 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)
40.51 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. Photograph after initial concrete breaking above Tank 201A.



Photo 2. Concrete above Tank 201A being removed.

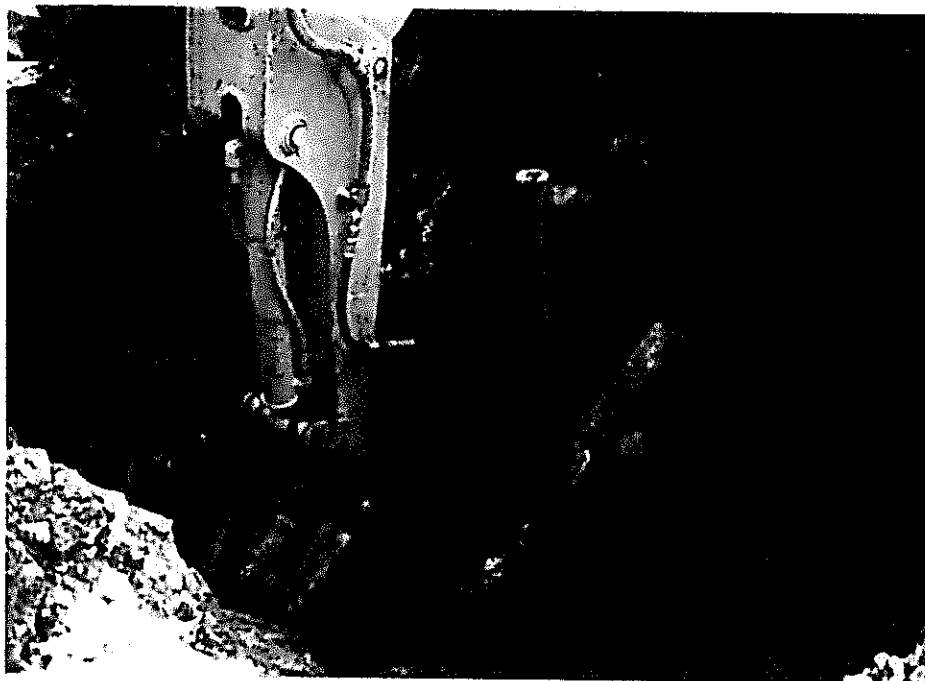


Photo 3. Photograph taken during excavation activities.

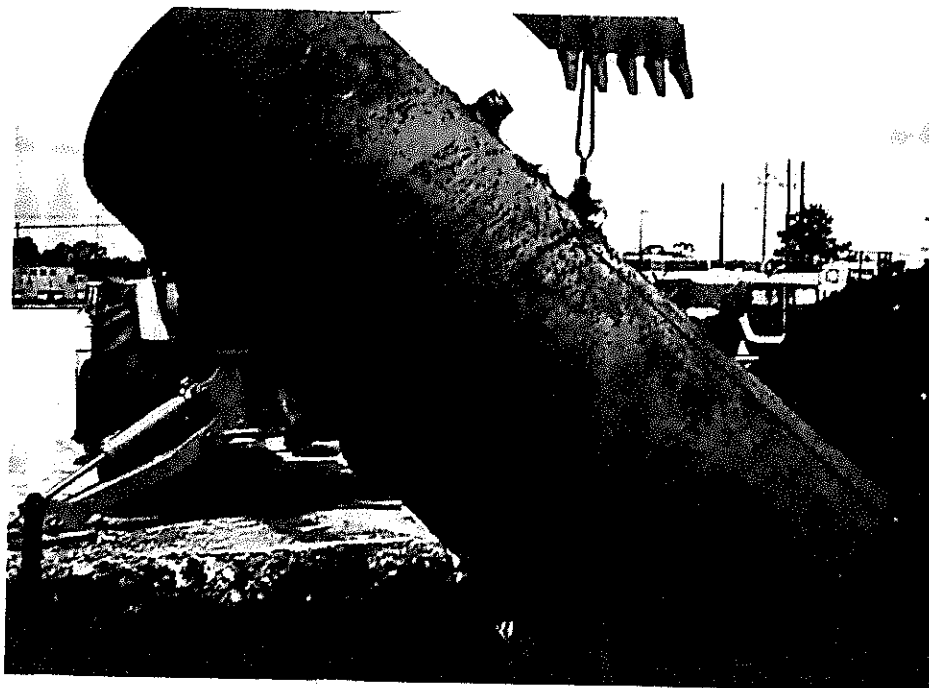
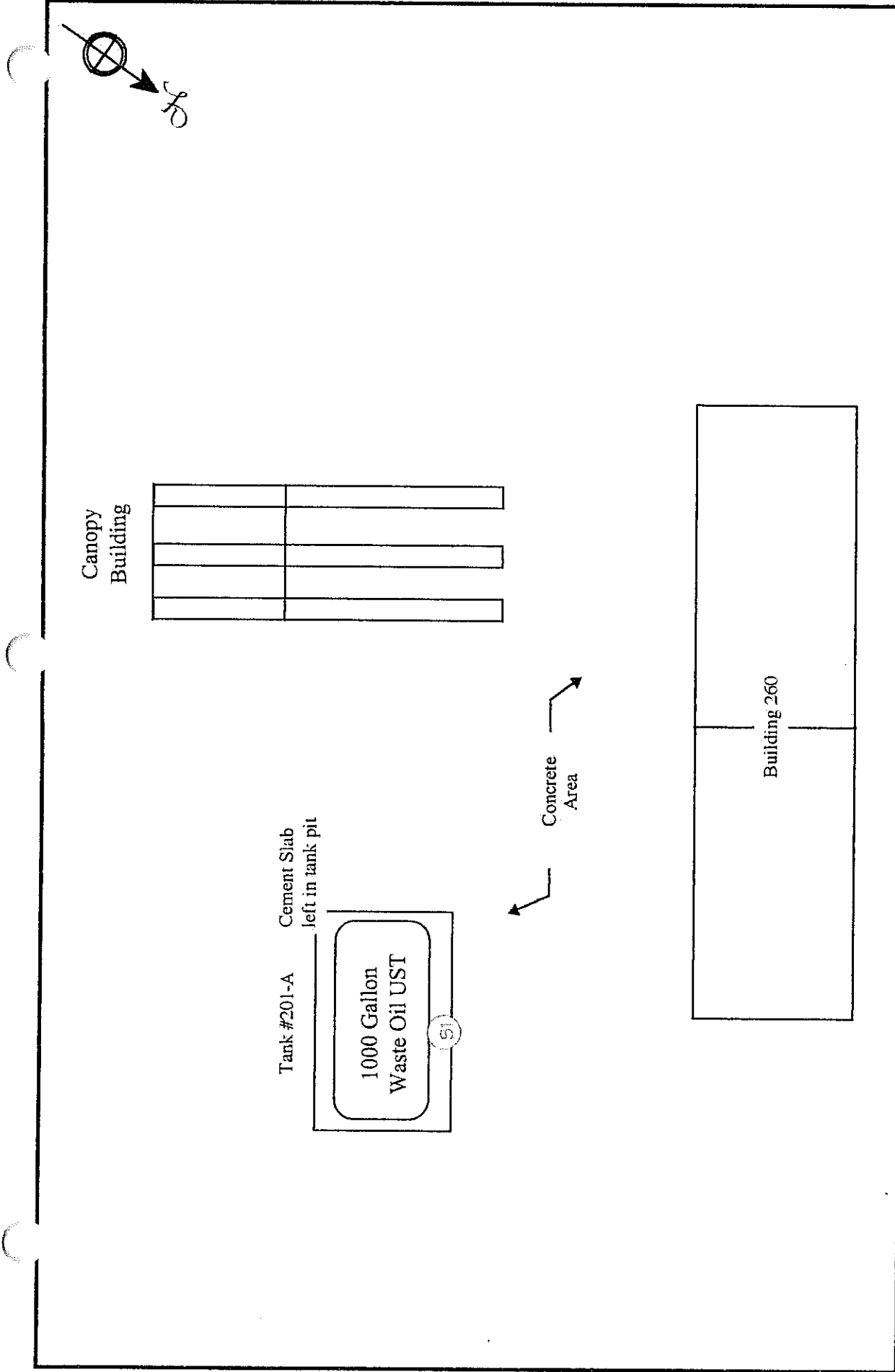


Photo 4. Tank 201A being removed from the excavation pit.

TAB 5

SITE MAPS



Sampling Map - Building 260
 Tank 201A
 Ft. Stewart, Georgia
 Delivery Order 101
 FIGURE NO.: 1

ANDERSON COLUMBIA
 Environmental, Inc.
 P.O. BOX 1386, LAKE CITY, FLORIDA 32056-1386 PHONE: (904) 755-1196 FAX: (904) 758-9050
 DR. AJR DR. APP. _____
 DATE: 2 August 96 SCALE: 1" = 10'

LEGEND
 (S1) Location of Closure Sample

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

state use only

FACILITY ID NUMBER: 9-089043

OWNER'S ID: 197

INITIAL DATE RECEIVED: 12-18-1992

DATE AMENDED LAST: _____

NOTIFICATION TYPE: ☐ New ☒ Amended ☒ Closure

OWNERSHIP OF TANK (S):

NUMBER OF TANK (S): 4

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 260
Street Address : FAC 260
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	9-089043	9-089043	9-089043	9-089043	
TANK ID	200	201	201A	201B	
Status of Tank					
Currently in Use			X	X	
Temp. Out of Use					
Perm. Out of Use	X	X	X	X	
Date of Installation	1-Jan-85	1-Jan-85	1-Jan-85	1-Jan-85	
Age	11	11	11	11	
Est. Total Capacity	12,000 1000	1000 10,000	1000	1000	
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	X	X	X	X	
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Explanation					
Date Tank Repaired					
PIPING MATERIAL					
Bare Steel					
Galvanized Steel	X	X	X	X	
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	X				
Diesel		X			
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Propane			X	X	
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089043		9-089043		9-089043		9-089043			
TANK ID	200		201		201A		201B			
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	2/1/94		8/1/94		7-96	7-96				
Est. Date Closed					7-12-96	7-12-96				
Removed from Ground	3-28-95		3-28-95		X	X				
Closed in Ground										
Filled with Iner. Mat.										
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 Guaging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Guaging										
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

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 201A
Building Number 260

<i>Method</i> Sample ID <i>unit</i>	9073 TRPH ppm	9071A TRPH ppm	8020A BTEX ppb	8270B Semi-Volatile Organics ppb
201-A-T1-S1		42	140.4	6522
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank was approximately 3000 feet from the closest withdrawal point (>500'). These analytical results should be compared with Table A, >500 feet to withdrawal point on the sheet that follows.

This comparison yields a clean status for the PAH and BTEX constituents.

40.51 tons of petroleum contaminated soil was removed from the Tank 201A pit.

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.
- 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 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: Chemical Analysis

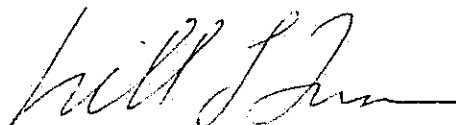
1. Enclosed is our report of analytical test results and chain of custody forms for three samples collected 9 July 1996 from Ft. Stewart.
2. If you have any questions, please call Mr. Blaise Willis at 770-919-5295 or me at 770-919-3990.

SUBMITTED BY:

SIGNATURE

DATE:

WILLIAM L. TISON, P. E.
Director, SAD Laboratory



14 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 - 96/07/15 Requisition - PMS-96-109
Date Reported - 96/08/14 07:50:13 Work Order - 7996 Job Number - 4007

Lab #	Field ID	Date Sampled	Time Sampled
29493	201-A-T1-S1	96/07/11	12:50

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	82.80	%	ECO	96/07/22
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/25
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/07/26
TRPH	42.0	MG/KG	ECO	96/08/02

*NOTE: See Attached

Sampled by District Personnel

Checked by: A Tr

Signed by:

Blaise Willis

Blaise Willis
Chemist

Set 1 of 3

Lab # Field ID

494 201-B-T1-S1

Date Sampled Time Sampled

96/07/11 16:00

Test Performed

TOTAL SOLIDS, % OF WET
AROMATIC VOLATILE ORGANICS
SEMIVOLATILE ORGANICS GC/MS
TRPH

Result	Units	Tested By	Test Date
-----	-----	-----	-----
85.00	%	ECO	96/07/22
*		ECO	96/07/25
*		ECO	96/07/26
74.0	MG/KG	ECO	96/08/02

*NOTE: See Attached

Sampled by District Personnel

Checked by: ATP

Signed by:

Blaise Willis

Blaise Willis
Chemist

Page 2 of 3

Lab # Field ID

495 TRIP BK #13

Date Sampled Time Sampled

96/07/11 00:00

Test Performed

AROMATIC VOLATILE ORGANICS

Result	Units	Tested By	Test Date
-----	-----	-----	-----
*		ECO	96/07/25

*NOTE: See Attached

Sampled by District Personnel

Checked by: ATP

Signed by:

Blaise Willis

Blaise Willis
Chemist

et 3 of 3

Page 13 of 14

Project No.		Project Name	
#801		F.T. STEWART	
Sample Signature: <i>Edward J. Stearns</i>			
Sample Number	Date	Time	Comp.
#201-A-12-52	7/11/96	12:50	
#201-B-12-52	7/11/96	1:00	
#201-C-12-52	7/11/96		
#201-D-12-52	7/11/96		
#201-E-12-52	7/11/96		
#201-F-12-52	7/11/96		
#201-G-12-52	7/11/96		
#201-H-12-52	7/11/96		
#201-I-12-52	7/11/96		
#201-J-12-52	7/11/96		
#201-K-12-52	7/11/96		
#201-L-12-52	7/11/96		
#201-M-12-52	7/11/96		
#201-N-12-52	7/11/96		
#201-O-12-52	7/11/96		
#201-P-12-52	7/11/96		
#201-Q-12-52	7/11/96		
#201-R-12-52	7/11/96		
#201-S-12-52	7/11/96		
#201-T-12-52	7/11/96		
#201-U-12-52	7/11/96		
#201-V-12-52	7/11/96		
#201-W-12-52	7/11/96		
#201-X-12-52	7/11/96		
#201-Y-12-52	7/11/96		
#201-Z-12-52	7/11/96		
#201-AA-12-52	7/11/96		
#201-AB-12-52	7/11/96		
#201-AC-12-52	7/11/96		
#201-AD-12-52	7/11/96		
#201-AE-12-52	7/11/96		
#201-AF-12-52	7/11/96		
#201-AG-12-52	7/11/96		
#201-AH-12-52	7/11/96		
#201-AI-12-52	7/11/96		
#201-AJ-12-52	7/11/96		
#201-AK-12-52	7/11/96		
#201-AL-12-52	7/11/96		
#201-AM-12-52	7/11/96		
#201-AN-12-52	7/11/96		
#201-AO-12-52	7/11/96		
#201-AP-12-52	7/11/96		
#201-AQ-12-52	7/11/96		
#201-AR-12-52	7/11/96		
#201-AS-12-52	7/11/96		
#201-AT-12-52	7/11/96		
#201-AU-12-52	7/11/96		
#201-AV-12-52	7/11/96		
#201-AW-12-52	7/11/96		
#201-AX-12-52	7/11/96		
#201-AY-12-52	7/11/96		
#201-AZ-12-52	7/11/96		
#201-BA-12-52	7/11/96		
#201-BB-12-52	7/11/96		
#201-BC-12-52	7/11/96		
#201-BD-12-52	7/11/96		
#201-BE-12-52	7/11/96		
#201-BF-12-52	7/11/96		
#201-BG-12-52	7/11/96		
#201-BH-12-52	7/11/96		
#201-BI-12-52	7/11/96		
#201-BJ-12-52	7/11/96		
#201-BK-12-52	7/11/96		
#201-BL-12-52	7/11/96		
#201-BM-12-52	7/11/96		
#201-BN-12-52	7/11/96		
#201-BO-12-52	7/11/96		
#201-BP-12-52	7/11/96		
#201-BQ-12-52	7/11/96		
#201-BR-12-52	7/11/96		
#201-BS-12-52	7/11/96		
#201-BT-12-52	7/11/96		
#201-BU-12-52	7/11/96		
#201-BV-12-52	7/11/96		
#201-BW-12-52	7/11/96		
#201-BX-12-52	7/11/96		
#201-BY-12-52	7/11/96		
#201-BZ-12-52	7/11/96		
#201-CA-12-52	7/11/96		
#201-CB-12-52	7/11/96		
#201-CC-12-52	7/11/96		
#201-CD-12-52	7/11/96		
#201-CE-12-52	7/11/96		
#201-CF-12-52	7/11/96		
#201-CG-12-52			

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

DATE: 07/15/96

Number of coolers 1 Returned cooler(s) to: FL Stewart Anderson Columbia

PROJECT: FL Stewart W.O.# _____ JOB# 4007

Coolers(s) opened by (print name) Carol K. H. (sign) [Signature]

1. Did cooler come with shipping slip? ☒ yes ☐ no
If yes, enter Tracking Number here 128 22.65633

2. Were custody seals on out side of cooler? ☒ yes ☐ no
How many? 4 Date on seal(s) 7-11-96 Name on seal(s) L.K.

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: 25°C

7. Describe cooler packing: Melted ice / water

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 4 days

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

SAMPLE ANALYSIS PERFORMED BY: Ecosys TAT reg. 14 day

COMMENTS: _____

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

LAB NUMBER(S): 29493-29495

SIGNATURE: [Signature]

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

Client Code 29112130
Ledger Number 107935
P.O. Number
Date Received 07/16/96
Time Received 10:31
Reporting Date 08/13/96

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

Lab Sample ID AB35915 Client Site # 29493
Project # 4007 Client Sample # 201-A-T1-S1
Project Name FT. STEWART
Sampling Date/Time 07/11/96 12:50

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
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Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL

Prep Date 07/24/96

Batch 0724960003

8270B	PHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	108-95-2	GC	07/26/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	111-44-4	GC	07/26/96
8270B	2-CHLOROPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	95-57-8	GC	07/26/96
8270B	1,3-DICHLOROBENZENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	541-73-1	GC	07/26/96
8270B	1,4-DICHLOROBENZENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	106-46-7	GC	07/26/96
8270B	1,2-DICHLOROBENZENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	95-50-1	GC	07/26/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	108-60-1	GC	07/26/96
8270B	2-METHYLPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	95-48-7	GC	07/26/96
8270B	4-METHYLPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	106-44-5	GC	07/26/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	621-64-7	GC	07/26/96
8270B	HEXACHLOROETHANE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	67-72-1	GC	07/26/96
8270B	NITROBENZENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	98-95-3	GC	07/26/96
8270B	ISOPHORONE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	78-59-1	GC	07/26/96
8270B	2-NITROPHENOL	\$06013	<i>Below MDL</i>	2391	ug/Kg	3.0	88-75-5	GC	07/26/96
8270B	2,4-DIMETHYLPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	105-67-9	GC	07/26/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	111-91-1	GC	07/26/96
8270B	2,4-DICHLOROPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	120-83-2	GC	07/26/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	120-82-1	GC	07/26/96
8270B	NAPHTHALENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	91-20-3	GC	07/26/96
8270B	4-CHLOROANILINE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	106-47-8	GC	07/26/96
8270B	HEXACHLOROBUTADIENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	87-68-3	GC	07/26/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	<i>Below MDL</i>	2391	ug/Kg	3.0	59-50-7	GC	07/26/96
8270B	2-METHYLNAPHTHALENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	91-57-6	GC	07/26/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	77-47-4	GC	07/26/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	88-06-2	GC	07/26/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	95-95-4	GC	07/26/96
8270B	2-CHLORONAPHTHALENE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	91-58-7	GC	07/26/96
8270B	2-NITROANILINE	\$06013	<i>Below MDL</i>	1196	ug/Kg	3.0	88-74-4	GC	07/26/96

Lab Sample ID AB35915 Client Site # 29493
 Project # 4007 Client Sample # 201-A-T1-S1
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 12:50

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment Results are reported on a dry weight basis.									
SEMI (GC/MS) SOIL				Prep Date 07/24/96			Batch 0724960003		
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	1196	ug/Kg	3.0	131-11-3	GC	07/26/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	1196	ug/Kg	3.0	208-96-8	GC	07/26/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	1196	ug/Kg	3.0	606-20-2	GC	07/26/96
8270B	3-NITROANILINE	\$06013	Below MDL	1196	ug/Kg	3.0	99-09-2	GC	07/26/96
8270B	ACENAPHTHENE	\$06013	Below MDL	1196	ug/Kg	3.0	83-32-9	GC	07/26/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	5978	ug/Kg	3.0	51-28-5	GC	07/26/96
8270B	4-NITROPHENOL	\$06013	Below MDL	5978	ug/Kg	3.0	100-02-7	GC	07/26/96
8270B	DIBENZOFURAN	\$06013	Below MDL	1196	ug/Kg	3.0	132-64-9	GC	07/26/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	1196	ug/Kg	3.0	121-14-2	GC	07/26/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	1196	ug/Kg	3.0	84-66-2	GC	07/26/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	1196	ug/Kg	3.0	7005-72-3	GC	07/26/96
8270B	FLUORENE	\$06013	Below MDL	1196	ug/Kg	3.0	86-73-7	GC	07/26/96
8270B	4-NITROANILINE	\$06013	Below MDL	1196	ug/Kg	3.0	100-01-6	GC	07/26/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	5978	ug/Kg	3.0	534-52-1	GC	07/26/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	1196	ug/Kg	3.0	86-30-6	GC	07/26/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	1196	ug/Kg	3.0	101-55-3	GC	07/26/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	1196	ug/Kg	3.0	118-74-1	GC	07/26/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	5978	ug/Kg	3.0	87-86-5	GC	07/26/96
8270B	PHENANTHRENE	\$06013	Below MDL	1196	ug/Kg	3.0	85-01-8	GC	07/26/96
8270B	ANTHRACENE	\$06013	Below MDL	1196	ug/Kg	3.0	120-12-7	GC	07/26/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	6522	1196	ug/Kg	3.0	84-74-2	GC	07/26/96
8270B	FLUORANTHENE	\$06013	Below MDL	1196	ug/Kg	3.0	206-44-0	GC	07/26/96
8270B	PYRENE	\$06013	Below MDL	1196	ug/Kg	3.0	129-00-0	GC	07/26/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	1196	ug/Kg	3.0	85-68-7	GC	07/26/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	2391	ug/Kg	3.0	91-94-1	GC	07/26/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	1196	ug/Kg	3.0	56-55-3	GC	07/26/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	1196	ug/Kg	3.0	117-81-7	GC	07/26/96
8270B	CHRYSENE	\$06013	Below MDL	1196	ug/Kg	3.0	218-01-9	GC	07/26/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	1196	ug/Kg	3.0	117-84-0	GC	07/26/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	1196	ug/Kg	3.0	205-99-2	GC	07/26/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	1196	ug/Kg	3.0	207-08-9	GC	07/26/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	1196	ug/Kg	3.0	50-32-8	GC	07/26/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	1196	ug/Kg	3.0	193-39-5	GC	07/26/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	1196	ug/Kg	3.0	53-70-3	GC	07/26/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	1196	ug/Kg	3.0	191-24-2	GC	07/26/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	35	%	REC	1.0	367-12-4	GC	07/26/96
8270B	PHENOL-D5 (SURR)	\$06013	36	%	REC	1.0	13127-88-3	GC	07/26/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	35	%	REC	1.0	4165-60-0	GC	07/26/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	42	%	REC	1.0	321-60-8	GC	07/26/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	36	%	REC	1.0	118-79-6	GC	07/26/96
8270B	TERPHENYL-D14 (SURR)	\$06013	51	%	REC	1.0	1718-51-0	GC	07/26/96
8270B	CARBAZOLE	\$06013	Below MDL	1196	ug/Kg	3.0	36-74-8	GC	07/26/96
BTEX (GC) SOIL				Prep Date 07/25/96			Batch 072596BS		
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	07/25/96

Lab Sample ID AB35915
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 12:50

Client Site # 29493
 Client Sample # 201-A-T1-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
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Sample Comment Results are reported on a dry weight basis.

BTEX (GC) SOIL

Prep Date 07/25/96

Batch 072596BS

8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	07/25/96
8020A	ETHYLBENZENE	\$08006	2.4	1.2	ug/Kg	1.0	100-41-4	DTA	07/25/96
8020A	XYLENES (TOTAL)	\$08006	138	1.2	ug/Kg	1.0	1330-20-7	DTA	07/25/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	75	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	65	%	REC	1.0	460-00-4	DTA	07/25/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-90-7	DTA	07/25/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	07/25/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	07/25/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	07/25/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	07/25/96

Prep Date 07/31/96

Batch 080296

9071A	TRPH 9071A SOIL	08041	42	12	mg/Kg	1.0		ML	08/02/96
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Prep Date 07/22/96

Batch 072296

160.3	% TOTAL SOLIDS SOIL (N/C)	09099	82.8	0.1	%	1.0		MN	07/22/96
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Sample ID AB35916
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 16:00

Client Site # 29494
 Client Sample # 201-B-T1-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
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Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL

Prep Date 07/24/96

Batch 0724960003

8270B	PHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	108-95-2	GC	07/26/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	1165	ug/Kg	3.0	111-44-4	GC	07/26/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	95-57-8	GC	07/26/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	1165	ug/Kg	3.0	541-73-1	GC	07/26/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	1165	ug/Kg	3.0	106-46-7	GC	07/26/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	1165	ug/Kg	3.0	95-50-1	GC	07/26/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	1165	ug/Kg	3.0	108-60-1	GC	07/26/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	95-48-7	GC	07/26/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	106-44-5	GC	07/26/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	1165	ug/Kg	3.0	621-64-7	GC	07/26/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	1165	ug/Kg	3.0	67-72-1	GC	07/26/96
8270B	NITROBENZENE	\$06013	Below MDL	1165	ug/Kg	3.0	98-95-3	GC	07/26/96
8270B	ISOPHORONE	\$06013	Below MDL	1165	ug/Kg	3.0	78-59-1	GC	07/26/96
8270B	2-NITROPHENOL	\$06013	Below MDL	2329	ug/Kg	3.0	88-75-5	GC	07/26/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	105-67-9	GC	07/26/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	1165	ug/Kg	3.0	111-91-1	GC	07/26/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	120-83-2	GC	07/26/96

Lab Sample ID AB35916
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 16:00

Client Site # 29494
 Client Sample # 201-B-T1-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
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Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL

Prep Date 07/24/96

Batch 0724960003

8270B	1,2,4-TRICHLORO BENZENE	\$06013	Below MDL	1165	ug/Kg	3.0	120-82-1	GC	07/26/96
8270B	NAPHTHALENE	\$06013	Below MDL	1165	ug/Kg	3.0	91-20-3	GC	07/26/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	1165	ug/Kg	3.0	106-47-8	GC	07/26/96
8270B	HEXACHLORO BUTADIENE	\$06013	Below MDL	1165	ug/Kg	3.0	87-68-3	GC	07/26/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	2329	ug/Kg	3.0	59-50-7	GC	07/26/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	1165	ug/Kg	3.0	91-57-6	GC	07/26/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	1165	ug/Kg	3.0	77-47-4	GC	07/26/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	88-06-2	GC	07/26/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	1165	ug/Kg	3.0	95-95-4	GC	07/26/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	1165	ug/Kg	3.0	91-58-7	GC	07/26/96
8270B	2-NITROANILINE	\$06013	Below MDL	1165	ug/Kg	3.0	88-74-4	GC	07/26/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	1165	ug/Kg	3.0	131-11-3	GC	07/26/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	1165	ug/Kg	3.0	208-96-8	GC	07/26/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	1165	ug/Kg	3.0	606-20-2	GC	07/26/96
8270B	3-NITROANILINE	\$06013	Below MDL	1165	ug/Kg	3.0	99-09-2	GC	07/26/96
8270B	ACENAPHTHENE	\$06013	Below MDL	1165	ug/Kg	3.0	83-32-9	GC	07/26/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	5824	ug/Kg	3.0	51-28-5	GC	07/26/96
8270B	4-NITROPHENOL	\$06013	Below MDL	5824	ug/Kg	3.0	100-02-7	GC	07/26/96
8270B	DIBENZOFURAN	\$06013	Below MDL	1165	ug/Kg	3.0	132-64-9	GC	07/26/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	1165	ug/Kg	3.0	121-14-2	GC	07/26/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	1165	ug/Kg	3.0	84-66-2	GC	07/26/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	1165	ug/Kg	3.0	7005-72-3	GC	07/26/96
8270B	FLUORENE	\$06013	Below MDL	1165	ug/Kg	3.0	86-73-7	GC	07/26/96
8270B	4-NITROANILINE	\$06013	Below MDL	1165	ug/Kg	3.0	100-01-6	GC	07/26/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	5824	ug/Kg	3.0	534-52-1	GC	07/26/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	1165	ug/Kg	3.0	86-30-6	GC	07/26/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	1165	ug/Kg	3.0	101-55-3	GC	07/26/96
8270B	HEXACHLORO BENZENE	\$06013	Below MDL	1165	ug/Kg	3.0	118-74-1	GC	07/26/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	5824	ug/Kg	3.0	87-86-5	GC	07/26/96
8270B	PHENANTHRENE	\$06013	3247	1165	ug/Kg	3.0	85-01-8	GC	07/26/96
8270B	ANTHRACENE	\$06013	Below MDL	1165	ug/Kg	3.0	120-12-7	GC	07/26/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	1165	ug/Kg	3.0	84-74-2	GC	07/26/96
8270B	FLUORANTHENE	\$06013	2847	1165	ug/Kg	3.0	206-44-0	GC	07/26/96
8270B	PYRENE	\$06013	2471	1165	ug/Kg	3.0	129-00-0	GC	07/26/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	1165	ug/Kg	3.0	85-68-7	GC	07/26/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	1165	ug/Kg	3.0	91-94-1	GC	07/26/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	1165	ug/Kg	3.0	56-55-3	GC	07/26/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	1165	ug/Kg	3.0	117-81-7	GC	07/26/96
8270B	CHRYSENE	\$06013	1494	1165	ug/Kg	3.0	218-01-9	GC	07/26/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	1165	ug/Kg	3.0	117-84-0	GC	07/26/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	1165	ug/Kg	3.0	205-99-2	GC	07/26/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	1165	ug/Kg	3.0	207-08-9	GC	07/26/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	1165	ug/Kg	3.0	50-32-8	GC	07/26/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	1165	ug/Kg	3.0	193-39-5	GC	07/26/96

Lab Sample ID AB35916
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 16:00

Client Site # 29494
 Client Sample # 201-B-T1-S1

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment Results are reported on a dry weight basis.									
SEMI (GC/MS) SOIL				Prep Date 07/24/96			Batch 0724960003		
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	1165	ug/Kg	3.0	53-70-3	GC	07/26/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	1165	ug/Kg	3.0	191-24-2	GC	07/26/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	57	%	REC	1.0	367-12-4	GC	07/26/96
8270B	PHENOL-D5 (SURR)	\$06013	58	%	REC	1.0	13127-88-3	GC	07/26/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	62	%	REC	1.0	4165-60-0	GC	07/26/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	78	%	REC	1.0	321-60-8	GC	07/26/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	61	%	REC	1.0	118-79-6	GC	07/26/96
8270B	TERPHENYL-D14 (SURR)	\$06013	86	%	REC	1.0	1718-51-0	GC	07/26/96
8270B	CARBAZOLE	\$06013	Below MDL	1165	ug/Kg	3.0	86-74-8	GC	07/26/96
BTEX (GC) SOIL				Prep Date 07/25/96			Batch 072596BS		
8020A	BENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	71-43-2	DTA	07/25/96
8020A	TOLUENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-88-3	DTA	07/25/96
8020A	ETHYLBENZENE	\$08006	12	1.2	ug/Kg	1.0	100-41-4	DTA	07/25/96
8020A	XYLENES (TOTAL)	\$08006	106	1.2	ug/Kg	1.0	1330-20-7	DTA	07/25/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	80	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	62	%	REC	1.0	460-00-4	DTA	07/25/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	108-90-7	DTA	07/25/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	95-50-1	DTA	07/25/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	541-73-1	DTA	07/25/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.2	ug/Kg	1.0	106-46-7	DTA	07/25/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.2	ug/Kg	1.0	1634-04-4	DTA	07/25/96
				Prep Date 07/31/96			Batch 080296		
9071A	TRPH 9071A SOIL	08041	74	12	mg/Kg	1.0		ML	08/02/96
				Prep Date 07/22/96			Batch 072296		
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	85.0	0.1	%	1.0		MN	07/22/96

Lab Sample ID AB35917
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 :

Client Site # 29495
 Client Sample # TRIP BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/25/96			Batch 072596BW		
8020A	BENZENE	\$08106	Below MDL	1.0	ug/L	1.0	71-43-2	DTA	07/25/96
8020A	TOLUENE	\$08106	Below MDL	1.0	ug/L	1.0	108-88-8	DTA	07/25/96
8020A	ETHYLBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	100-41-4	DTA	07/25/96
8020A	XYLENES (TOTAL)	\$08106	Below MDL	1.0	ug/L	1.0	1330-20-7	DTA	07/25/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	75	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	76	%	REC	1.0	460-00-4	DTA	07/25/96
8020A	CHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	108-90-7	DTA	07/25/96

Lab Sample ID AB35917 Client Site # 29495
 Project # 4007 Client Sample # TRIP BLANK
 Project Name FT. STEWART
 Sampling Date/Time 07/11/96 :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/25/96		Batch 072596BW			
8020A	1,2-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	95-50-1	DTA	07/25/96
8020A	1,3-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	541-73-1	DTA	07/25/96
8020A	1,4-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	106-46-7	DTA	07/25/96
8020A	TERT-METHYLBUTYL ETHER	\$08106	Below MDL	1.0	ug/L	1.0	1634-04-4	DTA	07/25/96

Lab Sample ID AB35918 Client Site #
 Project # 4007 Client Sample # SOIL METHOD BLANK
 Project Name FT. STEWART
 Sampling Date/Time / / :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/24/96		Batch 0724960003			
8270B	PHENOL	\$06013	Below MDL	330	ug/Kg	1.0	108-95-2	GC	07/26/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	111-44-4	GC	07/26/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-57-8	GC	07/26/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	541-73-1	GC	07/26/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	106-46-7	GC	07/26/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	95-50-1	GC	07/26/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	108-60-1	GC	07/26/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-48-7	GC	07/26/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	106-44-5	GC	07/26/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	621-64-7	GC	07/26/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	330	ug/Kg	1.0	67-72-1	GC	07/26/96
8270B	NITROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	98-95-3	GC	07/26/96
8270B	ISOPHORONE	\$06013	Below MDL	330	ug/Kg	1.0	78-59-1	GC	07/26/96
8270B	2-NITROPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	88-75-5	GC	07/26/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-67-9	GC	07/26/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	330	ug/Kg	1.0	111-91-1	GC	07/26/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	120-83-2	GC	07/26/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	120-82-1	GC	07/26/96
8270B	NAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-20-3	GC	07/26/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	106-47-8	GC	07/26/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	87-68-3	GC	07/26/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	59-50-7	GC	07/26/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-57-6	GC	07/26/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	77-47-4	GC	07/26/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	88-06-2	GC	07/26/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-95-4	GC	07/26/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-58-7	GC	07/26/96
8270B	2-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-74-4	GC	07/26/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	131-11-3	GC	07/26/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	330	ug/Kg	1.0	208-96-8	GC	07/26/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	606-20-2	GC	07/26/96

Lab Sample ID AB35918
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/24/96			Batch 0724960003		
8270B	3-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	99-09-2	GC	07/26/96
8270B	ACENAPHTHENE	\$06013	Below MDL	330	ug/Kg	1.0	83-32-9	GC	07/26/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	07/26/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	07/26/96
8270B	DIBENZOFURAN	\$06013	Below MDL	330	ug/Kg	1.0	132-64-9	GC	07/26/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	121-14-2	GC	07/26/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-66-2	GC	07/26/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	07/26/96
8270B	FLUORENE	\$06013	Below MDL	330	ug/Kg	1.0	86-73-7	GC	07/26/96
8270B	4-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	100-01-6	GC	07/26/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	07/26/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	86-30-6	GC	07/26/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	101-55-3	GC	07/26/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	118-74-1	GC	07/26/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	87-86-5	GC	07/26/96
8270B	PHENANTHRENE	\$06013	Below MDL	330	ug/Kg	1.0	85-01-8	GC	07/26/96
8270B	ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	120-12-7	GC	07/26/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-74-2	GC	07/26/96
8270B	FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	206-44-0	GC	07/26/96
IB	PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	129-00-0	GC	07/26/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	85-68-7	GC	07/26/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	660	ug/Kg	1.0	91-94-1	GC	07/26/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	56-55-3	GC	07/26/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-81-7	GC	07/26/96
8270B	CHRYSENE	\$06013	Below MDL	330	ug/Kg	1.0	218-01-9	GC	07/26/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-84-0	GC	07/26/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	205-99-2	GC	07/26/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	207-08-9	GC	07/26/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	50-32-8	GC	07/26/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	193-39-5	GC	07/26/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	53-70-3	GC	07/26/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	330	ug/Kg	1.0	191-24-2	GC	07/26/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	44	%	REC	1.0	367-12-4	GC	07/26/96
8270B	PHENOL-D5 (SURR)	\$06013	43	%	REC	1.0	13127-88-3	GC	07/26/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	46	%	REC	1.0	4165-60-0	GC	07/26/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	49	%	REC	1.0	321-60-8	GC	07/26/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	37	%	REC	1.0	118-79-6	GC	07/26/96
8270B	TERPHENYL-D14 (SURR)	\$06013	55	%	REC	1.0	1718-51-0	GC	07/26/96
8270B	CARBAZOLE	\$06013	Below MDL	330	ug/Kg	1.0	86-74-8	GC	07/26/96
BTX (GC) SOIL				Prep Date 07/25/96			Batch 072596BS		
8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	07/25/96
IA	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	07/25/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	07/25/96
8020A	M,P-XYLENE	\$08006	Below MDL	1.0	ug/Kg	1.0		DTA	07/25/96
8020A	O-XYLENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-47-6	DTA	07/25/96

Lab Sample ID AB35918
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # SOIL METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/25/96		Batch 072596BS			
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	07/25/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	79	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	83	%	REC	1.0	460-00-4	DTA	07/25/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	07/25/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	07/25/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	07/25/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	07/25/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	07/25/96
				Prep Date 07/31/96		Batch 080296			
9071A	TRPH 9071A SOIL	08041	Below MDL	10.0	mg/Kg	1.0		ML	08/02/96

Lab Sample ID AB35919
 Project # 4007
 Project Name FT. STEWART
 Sampling Date/Time / / :

Client Site #
 Client Sample # WATER METHOD BLANK

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
X (GC) WATER				Prep Date 07/25/96		Batch 072596BW			
8020A	BENZENE	\$08106	Below MDL	1.0	ug/L	1.0	71-43-2	DTA	07/25/96
8020A	TOLUENE	\$08106	Below MDL	1.0	ug/L	1.0	108-88-8	DTA	07/25/96
8020A	ETHYLBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	100-41-4	DTA	07/25/96
8020A	XYLENES (TOTAL)	\$08106	Below MDL	1.0	ug/L	1.0	1330-20-7	DTA	07/25/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	87	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	91	%	REC	1.0	460-00-4	DTA	07/25/96
8020A	CHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	108-90-7	DTA	07/25/96
8020A	1,2-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	95-50-1	DTA	07/25/96
8020A	1,3-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	541-73-1	DTA	07/25/96
8020A	1,4-DICHLOROBENZENE	\$08106	Below MDL	1.0	ug/L	1.0	106-46-7	DTA	07/25/96
8020A	TERT-METHYLBUTYL ETHER	\$08106	Below MDL	1.0	ug/L	1.0	1634-04-4	DTA	07/25/96

Lab Sample ID AB36317
Project # 4007
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
SEMI (GC/MS) SOIL				Prep Date 07/24/96			Batch 0724960003		
8270B	2-FLUOROPHENOL (SURR)	\$06013	82	%	REC	1.0	367-12-4	GOR	07/27/96
8270B	PHENOL-D5 (SURR)	\$06013	78	%	REC	1.0	13127-88-3	GOR	07/27/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	82	%	REC	1.0	4165-60-0	GOR	07/27/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	103	%	REC	1.0	321-60-8	GOR	07/27/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	99	%	REC	1.0	118-79-6	GOR	07/27/96
8270B	TERPHENYL-D14 (SURR)	\$06013	118	%	REC	1.0	1718-51-0	GOR	07/27/96

Lab Sample ID AB36318
Project # 4007
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
SEMI (GC/MS) SOIL				Prep Date 07/24/96			Batch 0724960003		
8270B	2-FLUOROPHENOL (SURR)	\$06013	70	%	REC	1.0	367-12-4	GC	07/27/96
8270B	PHENOL-D5 (SURR)	\$06013	72	%	REC	1.0	13127-88-3	GC	07/27/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	69	%	REC	1.0	4165-60-0	GC	07/27/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	89	%	REC	1.0	321-60-8	GC	07/27/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	83	%	REC	1.0	118-79-6	GC	07/27/96
8270B	TERPHENYL-D14 (SURR)	\$06013	104	%	REC	1.0	1718-51-0	GC	07/27/96

Lab Sample ID AB36319
Project # 4007
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 07/24/96			Batch 0724960003		
8270B	2-FLUOROPHENOL (SURR)	\$06013	44	%	REC	1.0	367-12-4	GC	07/26/96
8270B	PHENOL-D5 (SURR)	\$06013	43	%	REC	1.0	13127-88-3	GC	07/26/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	44	%	REC	1.0	4165-60-0	GC	07/26/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	48	%	REC	1.0	321-60-8	GC	07/26/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	47	%	REC	1.0	118-79-6	GC	07/26/96
8270B	TERPHENYL-D14 (SURR)	\$06013	54	%	REC	1.0	1718-51-0	GC	07/26/96

Lab Sample ID AB36560 Client Site #
 Project # 4007 Client Sample # LCS
 Project Name FT. STEWART
 Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/25/96		Batch 072596BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	91	% REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	94	% REC	1.0	460-00-4	DTA	07/25/96

Lab Sample ID AB36561 Client Site #
 Project # 4007 Client Sample # MS
 Project Name FT. STEWART
 Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/25/96		Batch 072596BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	85	% REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	87	% REC	1.0	460-00-4	DTA	07/25/96

Lab Sample ID AB36562 Client Site #
 Project # 4007 Client Sample # MSD
 Project Name FT. STEWART
 Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/25/96		Batch 072596BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08106	81	% REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08106	83	% REC	1.0	460-00-4	DTA	07/25/96

Lab Sample ID AB36563 Client Site #
 Project # 4007 Client Sample # LCS
 Project Name FT. STEWART
 Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/25/96		Batch 072596BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	92	% REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	95	% REC	1.0	460-00-4	DTA	07/25/96

Lab Sample ID AB36564
Project # 4007
Project Name FT. STEWART
Sampling Date/Time / /

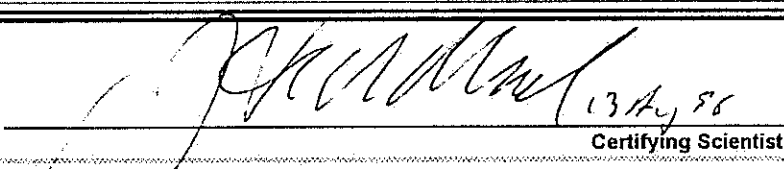
Client Site #
Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution	CAS #	ANALYST	DATE OF
						Factor			ANALYSIS
BTEX (GC) SOIL				Prep Date 07/25/96		Batch 072596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	86	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	78	%	REC	1.0	460-00-4	DTA	07/25/96

Lab Sample ID AB36565
Project # 4007
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
BTEX (GC) SOIL				Prep Date 07/25/96		Batch 072596BS			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	79	%	REC	1.0	98-08-8	DTA	07/25/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	70	%	REC	1.0	460-00-4	DTA	07/25/96


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

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Proponent: CEMP-KI

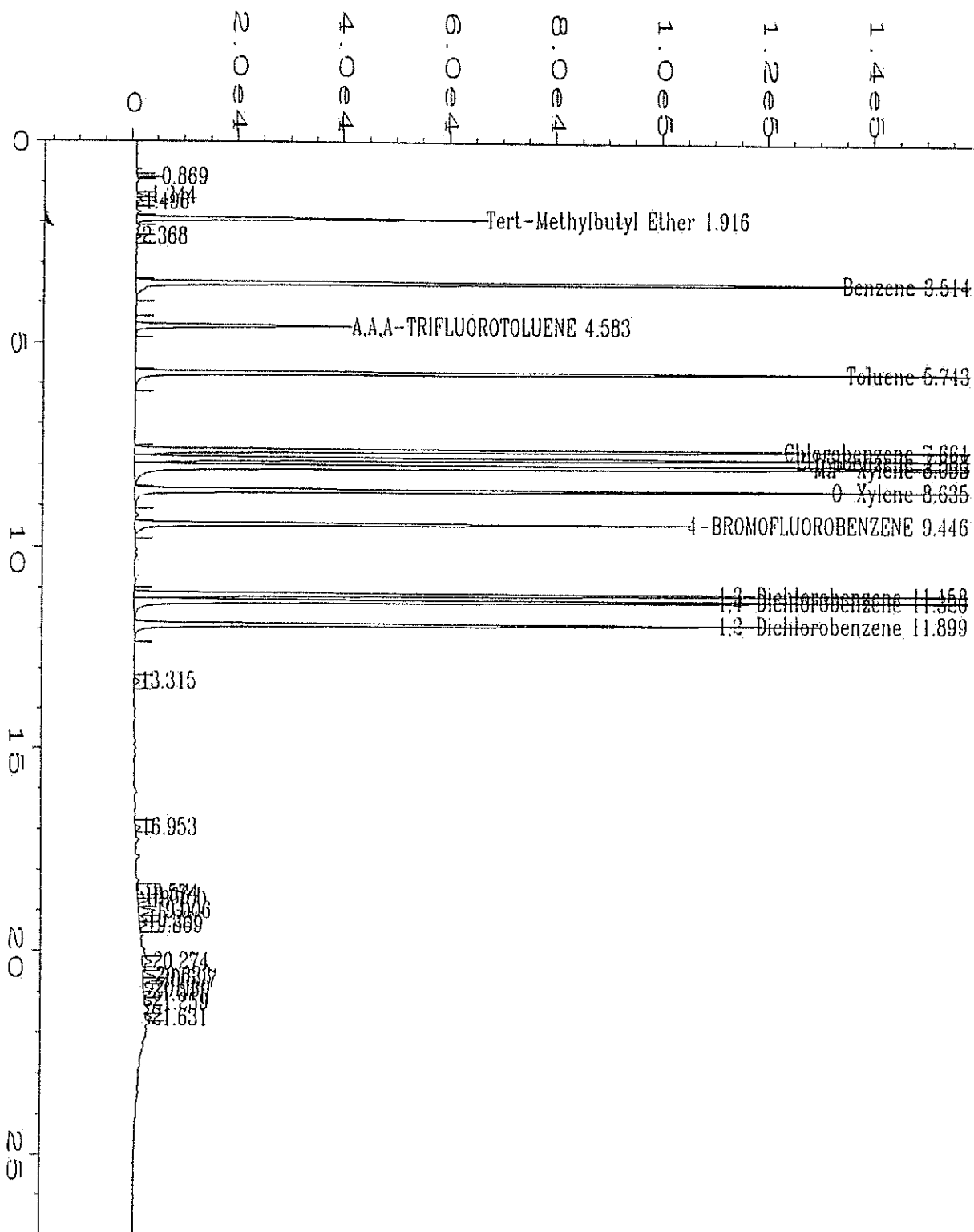
External Standard Report

```

Data File Name   : C:\HPCHEM\1\DATA\b072596\30725F11.D
Operator        : Doug Anderson
Instrument       : GC3
Sample Name     : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on    : 25 Jul 96 08:49 PM
Report Created on: 29 Jul 96 07:30 AM
Last Recalib ton : 14 JUN 96 10:38 AM
Multiplier     : 1
Sample Info    : 16ppb surr
Page Number    : 1
Vial Number    : 11
Injection Number : 1
Sequence Line  : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\b072596\30725F11.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.916	250355	VV	0.059	1	21.748	Tert-Methylbutyl Ether
3.514	762901	BB	0.057	1	19.510	Benzene
4.583	167681	BB	0.064	1	15.181	A,A,A-TRIFLUOROTOLUENE
5.743	729244	PB	0.059	1	19.449	Toluene
7.661	742417	BV	0.058	1	19.738	Chlorobenzene
7.868	659289	VV	0.061	1	19.652	Ethylbenzene
8.055	1522385	VV	0.062	1	39.445	M,P-Xylene
8.635	647175	VV	0.062	1	19.672	O-Xylene
9.446	406729	PV	0.060	1	15.970	4-BROMOFLUOROBENZENE
11.158	659370	BV	0.060	1	19.520	1,3-Dichlorobenzene
11.320	677694	VV	0.060	1	19.838	1,4-Dichlorobenzene
11.899	514596	VB	0.062	1	21.663	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b072596\30725F11.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 11
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	3B061396.MTH
Acquired on	: 25 Jul 96 08:49 PM	Analysis Method	: 3B061396.MTH
Report Created on:	29 Jul 96 07:30 AM	Sample Amount	: 0
Last Recalib on	: 14 JUN 96 10:38 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 16ppb surr		

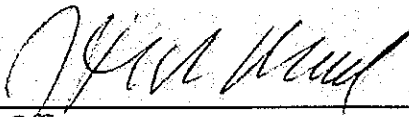
BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107935	
Batch No: 072596BS	Date Analyzed: 7/25/96
Lab File ID: 30725F12	Time Analyzed: 21:22
Lab Sample ID: AB35918	Level: Low
Instrument ID: GC3	Matrix: Soil

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

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36563 LCS	30725F13	7/25/96
2	NA	AB36564 MS	30725F14	7/25/96
3	NA	AB36565 MSD	30725F15	7/25/96
4	201-A-T1-S1	AB35915	30725F16	7/25/96
5	201-B-T1-S1	AB35916	30725F18	7/25/96
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable


 QA/QC Officer
 Comments:

BTEX LCS Recoveries (Soil)

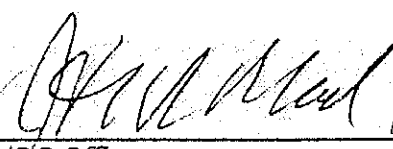
Lab Name: EcoSys, Inc.
 Ledger No: 107935
 Batch No: 072596BS
 Lab File ID: 30725F13

Client: ACE-SAD
 Laboratory Control Sample No: AB36563
 Level (Low/Med): Low

Compound	Spike Added (ug/Kg)	LCS Conc. (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	18	91		40-160
Toluene	20	18	91		40-160
Ethylbenzene	20	18	92		40-160
m,p-Xylene	40	37	92		40-160
o-Xylene	20	18	92		40-160

* Values outside of QC limits
 ND = Not Detected

Spike Recovery: 0 out of 5 outside limits


 QA/QC Officer

Comments: _____

Soil BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.
 Ledger No: 107935
 Batch No: 072596BS
 Lab File ID: 30725F14/30725F15

Client: ACE-SAD
 Matrix Spike/Lab Sample No: AB35915 REF
 AB36564 MS
 AB36565 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	84		40-160
Toluene	20	ND	16	82		40-160
Ethylbenzene	20	2.02	18	79		40-160
m,p-Xylene	40	113	94	-47	*	40-160
o-Xylene	20	3.42	18	73		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits	
Benzene	20	15	77		8		RPD	Recovery
Toluene	20	15	76		7		30	40-160
Ethylbenzene	20	17	86		8		30	40-160
m,p-Xylene	40	125	312	*	271	*	30	40-160
o-Xylene	20	18	89		19		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: 1 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

[Signature]
 QA/QC Officer

Comments: m,p-Xylene QC Recoveries and RPD are outside the limits.

BTEX Surrogate Recovery Summary

Lab Name: EcoSys, Inc.
Ledger No(s): 107935
Batch No.: 072596bs
GC Column : DB-VXR

Client: ACE-SAD

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: 107935DFTPP Injection Date: 7/26/96Lab File ID: DFTPP072696DFTPP Injection Time: 7:04Instrument ID: MSD-3Batch Number: 0724960003

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	28.4 (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 STD	INITAL CAL-1	BNA0201002	07/26/96	8:50 AM
	02 STD	INITAL CAL-2	BNA0301003	07/26/96	9:42 AM
	03 STD	INITAL CAL-4	BNA0401004	07/26/96	10:41 AM
	04 STD	INITAL CAL-5	BNA0501005	07/26/96	11:48 AM
	05 STD	INITAL CAL-3	BNA0601006	07/26/96	12:37 PM
	06 NA	AB35918 MB	BNA0701007	07/26/96	2:21 PM
	07 NA	AB36319 LCS	BNA0801008	07/26/96	3:28 PM
	08 201-A-T1-S1	AB35915	BNA1001010	07/26/96	5:09 PM

NA: Not Applicable

Comments:

QA/QC OFFICER

13 AUG 96

EcoSys, Inc.

Data file : /chem/msd3.i/3-072696.b/dftpp072696.d
Lab. Id. : DFTPP02
Inj Date : 26-JUL-96 07:04
Operator : BINA
Smp Info : 50ng OF DFT-05-(39)
Misc Info : INSTRUMENT TUNE FOR msd3.i
Comment :
Method : /chem/msd3.i/3-072696.b/dftpp288.m
Meth Date : 26-Jul-1996 06:48
Cal Date :
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE
Sample Type: WATER
Autotune Date: 26-Jul-96 07:03:3
Inst ID: msd3.i
Cal File:
QC Sample: DFTPP
Target Version: Target 2.20
Compound Sublist: all.sub

		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

QC Flag Legend

Q - Qualifier signal failed the ratio test.

EcoSys, Inc.

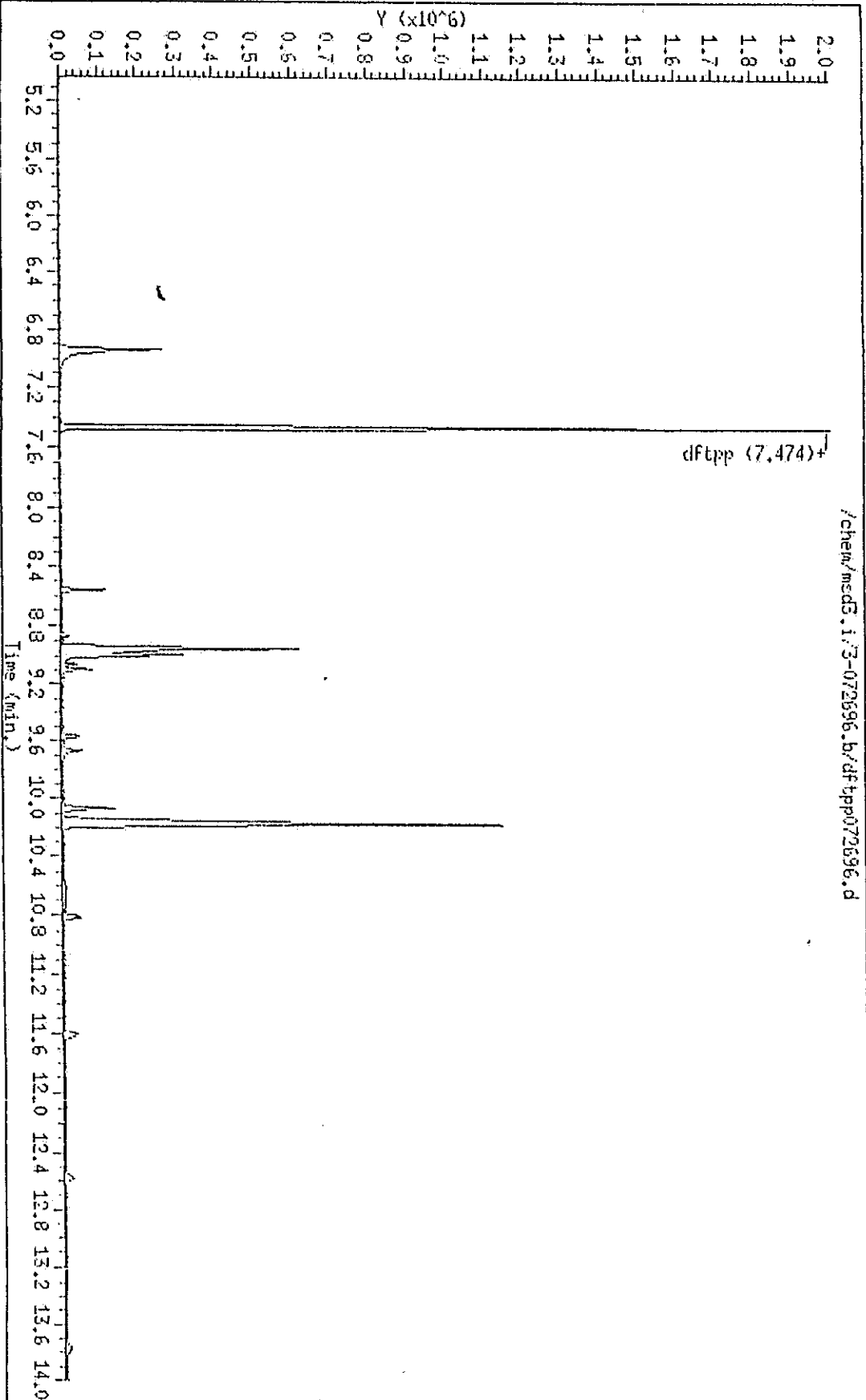
TARGET COMPOUNDS

Client Name:	Client SDG: 3-072696.b
Client Sample ID: DFTPP02	Sample Date:
Sample Location:	Sample Point:
Lab Sample ID: DFTPP02	Date Received:
Sample Type: WATER	
Analysis Type: SU	Level: LOW
Data Type: MS DATA	Column Number: 1
Misc Info: INSTRUMENT TUNE FOR msd3.i	

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/KG)	ug/L	
5074-71-5-----	dftpp_____		0.01	
=====	=====	=====	=====	=====

Data File: /chem/msd5.i/3-072696.b/dftpp072696.d
Date : 26-JUL-96 07:04
Instrument : msd5.i
Sample ID : DFTPP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.00



Date : 26-JUL-96 07:04

Instrument : msd3.1

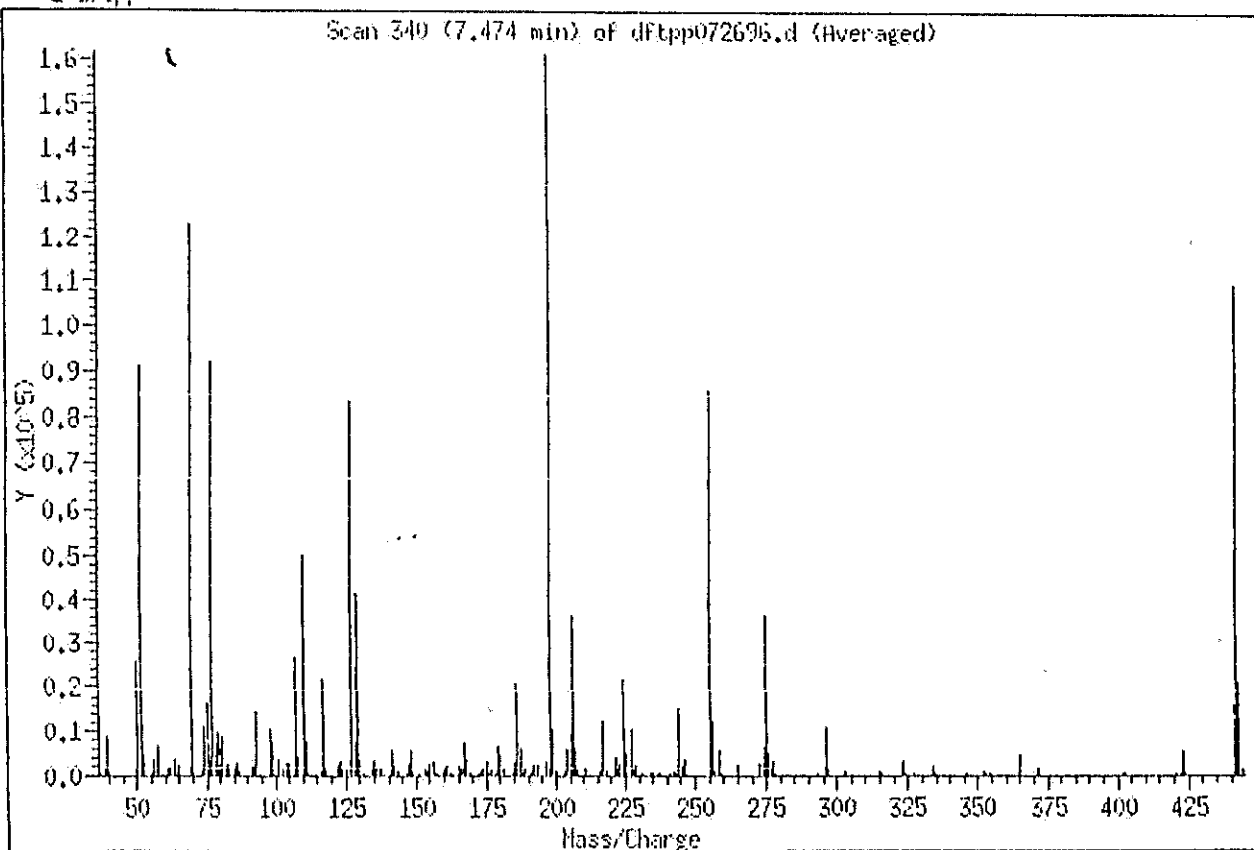
Sample ID : DFTFP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp



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
137	Mass 137 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 : msd3.1

Sample ID : DFTFP02

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	25701	122.00	2205	181.00	1703	257.00	1144
51.00	90533	123.00	2922	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	2008	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	366
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	1909	422.00	341

Date : 26-JUL-96 07:04

Instrument : msd3.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

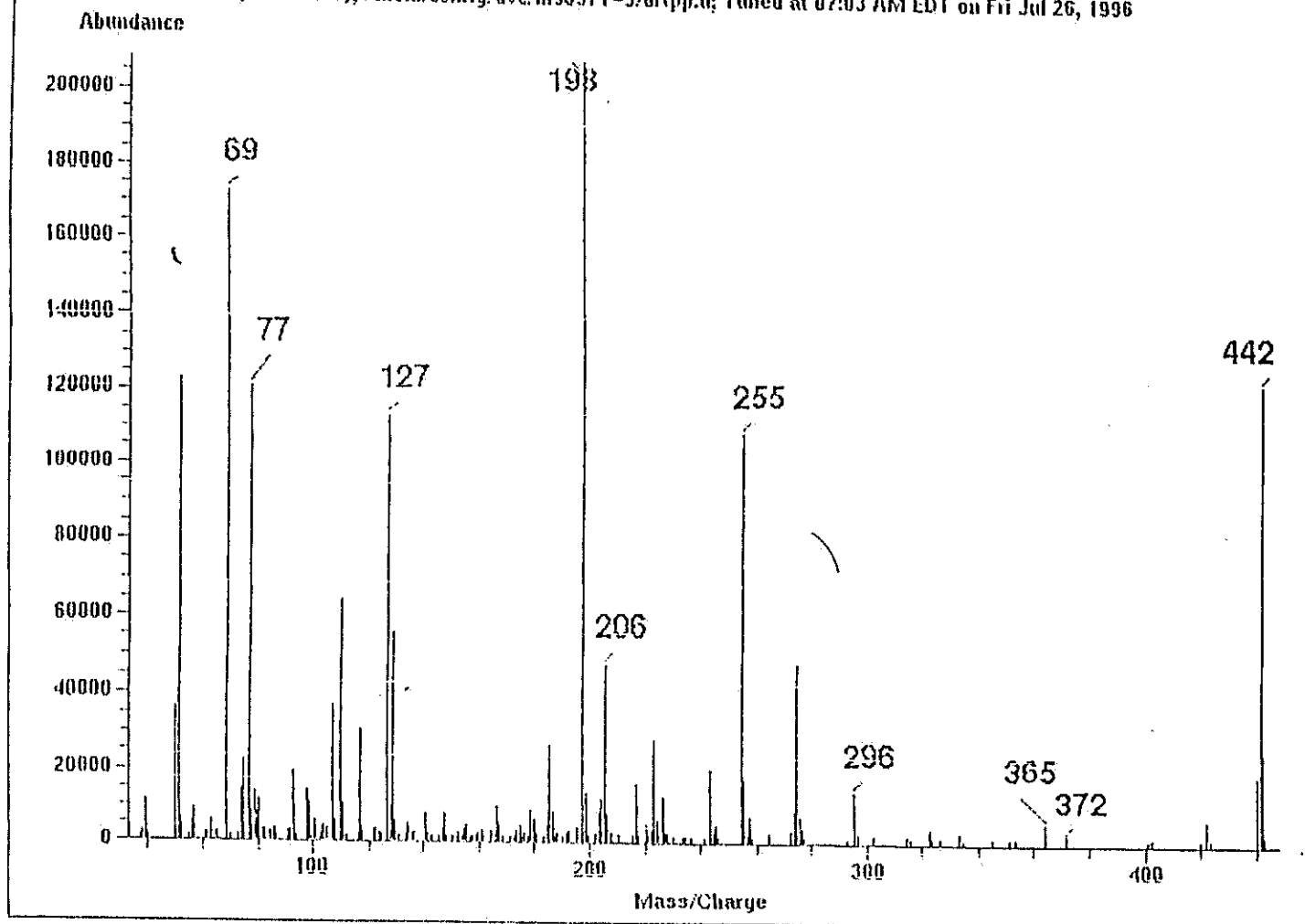
Volume Injected (uL) : 1.0

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	1449	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		



Mass	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 is	82.9
70	Less than 2.0% of mass 69	0.5
127	40.0 to 60.0% of mass 198	54.2
197	Less than 1.0% of mass 198	0.0
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 40.0% of mass 198	59.1
443	17.0 - 23.0% of mass 442	20.4

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
 End Cal Date : 26-JUL-1996 12:37
 Quant Method : ISTD
 Cal Curve Type : Averaged
 Target Version : Target 2.20
 Integrator : HP RTE
 Method file : /chem/msd3.i/3-072696.b/MA-BNA_2.m
 Cal Date : 26-Jul-1996 13:51 target

Calibration File Names:

Level 1: /chem/msd3.i/3-072696.b/BNA0201002.d
 Level 2: /chem/msd3.i/3-072696.b/BNA0301003.d
 Level 3: /chem/msd3.i/3-072696.b/BNA0601006.d
 Level 4: /chem/msd3.i/3-072696.b/BNA0401004.d
 Level 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	1.990321	2.076051	2.138151	2.213441	2.085871	2.100771	3.9201
4 Phenol **	2.063951	1.922411	1.920351	1.414111	1.787941	1.821751	13.6081
5 Bis(2-chloroethyl) ether	1.818541	1.646861	1.567721	1.573101	1.468771	1.615001	8.0631
6 2-Chlorophenol	1.478281	1.436051	1.418401	1.363061	1.268121	1.392781	5.8181
7 1,3-Dichlorobenzene	1.588551	1.434831	1.451291	1.366501	1.401841	1.448601	5.8481
9 1,4-Dichlorobenzene **	1.595441	1.500411	1.462261	1.402421	1.459371	1.483981	4.8151
10 1,2-Dichlorobenzene	1.605511	1.466541	1.438501	1.358201	1.382561	1.450261	6.6821
11 Benzyl alcohol	1.662211	1.713151	1.779571	1.878931	1.752411	1.757251	4.6151
12 2-Methylphenol	1.417171	1.268151	1.250651	1.311271	1.172971	1.284041	6.9841
13 Bis(2-chloroisopropyl) ether	2.641881	2.353901	2.303001	2.259311	2.080531	2.327731	8.7461
14 4-Methylphenol	1.403871	1.375681	1.381721	1.291101	1.143271	1.319131	8.1301
15 N-Nitrosodi-n-propylamine *	1.625331	1.423141	1.404181	1.355741	1.271651	1.416011	9.2401
16 Hexachloroethane	0.947971	0.866781	0.824931	0.782401	0.791961	0.842811	8.0001
18 Nitrobenzene	0.605231	0.653551	0.736741	0.938031	0.881801	0.763071	18.7991
19 Isophorone	1.122931	1.181211	1.159151	1.211711	1.100471	1.155101	3.8531
20 2-Nitrophenol **	0.267961	0.286851	0.280031	0.269981	0.258571	0.272681	4.0321
21 2,4-Dimethylphenol	0.479951	0.500061	0.493141	0.497211	0.454661	0.485001	3.8411
22 Bis(2-Chloroethoxy)methane	0.632801	0.576791	0.556611	0.554621	0.503641	0.564891	8.2451
23 2,4-Dichlorophenol **	0.280231	0.297231	0.310991	0.328061	0.293831	0.302071	6.0211
24 Benzoic acid	++++	0.171711	0.199421	0.150421	0.192241	0.178451	12.3671
25 1,2,4-Trichlorobenzene	0.373171	0.383901	0.383001	0.360381	0.372081	0.374511	2.5601
27 Naphthalene	1.145991	1.080791	1.025801	0.996151	1.025191	1.054781	5.6381
28 4-Chloroaniline	0.380511	0.367731	0.412341	0.423621	0.396911	0.396221	5.7421
29 Hexachlorobutadiene **	0.298761	0.304871	0.303251	0.293351	0.291851	0.298411	1.9381
30 4-Chloro-3-methylphenol **	0.420071	0.450281	0.427991	0.428031	0.395021	0.424281	4.6811
31 2-Methylnaphthalene	0.665571	0.635211	0.699911	0.916311	0.910421	0.765481	17.8891
32 Hexachlorocyclopentadiene *	0.214791	0.327031	0.371231	0.376741	0.390491	0.336061	21.3761
33 2,4,6-Trichlorophenol **	0.329961	0.355411	0.347881	0.357661	0.336361	0.345451	3.4761
34 2,4,5-Trichlorophenol	0.370341	0.387051	0.407241	0.417081	0.393181	0.394961	4.5801

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
 End Cal Date : 26-JUL-1996 12:37
 Quant Method : ISTD
 Cal Curve Type : Averaged
 Target Version : Target 2.20
 Integrator : HP RTE
 Method file : /chem/msd3.i/3-072696.b/MA-BNA_2.m
 Cal Date : 26-Jul-1996 13:51 target

Calibration File Names:

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

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
6 2-Chloronaphthalene	1.16197	1.08857	1.07025	1.02127	1.03698	1.07581	5.112
7 2-Nitroaniline	0.50948	0.57626	0.57669	0.62845	0.57830	0.57384	7.372
38 Dimethyl phthalate	1.55333	1.44749	1.38503	1.43301	1.26990	1.41775	7.264
39 2,6-Dinitrotoluene	0.34848	0.35078	0.32711	0.31799	0.30429	0.32973	6.041
40 Acenaphthylene	1.83114	1.68319	1.57228	1.48624	1.50075	1.61472	8.911
41 3-Nitroaniline	0.23793	0.21048	0.27048	0.29712	0.27562	0.25833	13.209
43 Acenaphthene **	1.11816	1.04359	1.00351	0.95906	0.94815	1.01450	6.827
44 2,4-Dinitrophenol *	++++	0.07914	0.11845	0.16255	0.15211	0.12806	29.404
45 4-Nitrophenol *	0.06036	0.04390	0.03834	0.04503	0.04876	0.04728	17.369
46 2,4-Dinitrotoluene	0.38945	0.43173	0.42783	0.44737	0.39980	0.41924	5.703
47 Dibenzofuran	1.53151	1.45395	1.38547	1.34183	1.28694	1.39994	6.831
48 Diethyl phthalate	1.65571	1.49756	1.47624	1.53194	1.37225	1.50674	6.795
49 4-Chlorophenyl phenyl ether	0.64365	0.58641	0.58133	0.56334	0.53906	0.58276	6.651
50 Fluorene	1.16689	1.07235	1.07017	1.03293	0.98767	1.06600	6.199
51 4-Nitroaniline	0.15829	0.14559	0.16135	0.23448	0.20830	0.18160	20.895
52 4,6-Dinitro-2-methylphenol	++++	0.16564	0.19017	0.20592	0.19022	0.18799	8.852
53 N-Nitrosodiphenylamine **	0.53314	0.48882	0.47347	0.43284	0.41506	0.46867	9.976
54 1,2-Diphenylhydrazine	3.55222	3.29817	2.94824	3.14072	2.82900	3.15367	9.073
56 4-Bromophenyl phenyl ether	0.32780	0.32784	0.31502	0.30509	0.30290	0.31573	3.783
57 Hexachlorobenzene	0.35108	0.34675	0.34977	0.32238	0.33310	0.34061	3.655
58 Pentachlorophenol **	++++	0.04811	0.07417	0.10031	0.06664	0.07231	29.935
60 Phenanthrene	1.18098	1.11355	1.07471	1.04686	0.99900	1.08302	6.358
61 Anthracene	1.13347	1.10892	1.05786	1.02250	0.97282	1.05911	6.119
62 Carbazole	0.98878	1.05507	1.11384	1.07677	0.96204	1.03930	6.034
63 Di-n-butyl phthalate	1.09432	1.70663	1.68191	1.67638	1.43689	1.67923	9.683
4 Fluoranthene **	0.99623	1.01020	1.01715	1.00868	0.93752	0.99395	3.264
5 Pyrene	1.85109	1.82172	1.80850	1.71711	1.72271	1.78423	3.404
67 Butyl benzyl phthalate	1.00168	0.98201	1.01280	1.05024	0.95849	1.00104	3.436
68 Dioctyl adipate	0.80660	0.74605	0.74831	0.74202	0.67940	0.74448	6.051

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
 End Cal Date : 26-JUL-1996 12:37
 Quant Method : ISTD
 Cal Curve Type : Averaged
 Target Version : Target 2.20
 Integrator : HP RTE
 Method file : /chem/msd3.i/3-072696.b/MA-BNA_2.m
 Cal Date : 26-Jul-1996 13:51 target

Calibration File Names:

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

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD/R^2
49 3,3'-Dichlorobenzidine	0.25785	0.18576	0.25785	0.38889	0.25787	0.26965	27.299
0 Bis(2-ethylhexyl) phthalate	1.40875	1.29500	1.31791	1.42362	1.22502	1.33406	6.190
71 Benz(a)anthracene	1.20757	1.25245	1.26275	1.27087	1.25631	1.24999	1.978
73 Chrysene	1.22497	1.20571	1.20674	1.16866	1.14708	1.19063	2.671
74 Di-n-octyl phthalate **	2.96574	2.89367	2.81500	2.69027	2.65137	2.80321	4.738
75 Benzo(b)fluoranthene	1.41246	1.53121	1.49130	1.41073	1.53581	1.47630	4.169
76 Benzo(k)fluoranthene	1.61230	1.60490	1.65974	1.59555	1.42516	1.57953	5.684
77 Benzo(a)pyrene **	1.34213	1.44077	1.39781	1.33381	1.40598	1.38410	3.265
79 Indeno(1,2,3-cd)pyrene	1.06004	1.20768	1.25028	1.22066	1.26839	1.20141	6.872
80 Dibenz(a,h)anthracene	1.05009	1.17568	1.27917	1.26556	1.29958	1.21402	8.497
81 Benzo(g,h,i)perylene	1.06004	1.20768	1.25028	1.22066	1.26839	1.20141	6.872
1 2-Fluorophenol	1.23558	1.19812	1.25711	1.39995	1.28848	1.27585	6.017
2 Phenol-d5	1.97777	1.74166	1.91037	1.99768	1.82372	1.89024	5.680
17 Nitrobenzene-d5	0.72433	0.74967	0.72664	0.73600	0.69999	0.72733	2.508
35 2-Fluorobiphenyl	1.49863	1.33275	1.29888	1.29596	1.28469	1.34218	6.652
55 2,4,6-Tribromophenol	0.14878	0.18730	0.20422	0.22032	0.20714	0.19355	14.289
66 Terphenyl-d14	1.23812	1.20243	1.20455	1.20378	1.18220	1.20621	1.667

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 107935DFTPP Injection Date: 7/26/96Lab File ID: BNA1201012DFTPP Injection Time: 19:07Instrument ID: MSD-3Batch Number: 0724960003

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.2
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	69.2 (1)
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	49.3
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	6.8
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1% of mass 198	3.0
441	Present, but less than mass 443	76.2
442	Greater than 40% of mass 198	71.5
443	17.0 - 23.0% of mass 442	20.2 (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	BNA1301013	07/26/96	7:25 PM
	02 NA	AB36317 MS	BNA1801018	07/27/96	12:14 AM
	03 NA	AB36318 MSD	BNA1901019	07/27/96	1:13 AM
	04 201-B-T1-S1	AB35916	BNA1701017	07/26/96	11:16 PM
	05				
	06				

NA: Not Applicable

Comments:

QA/QC OFFICER

EcoSys, Inc.

Data file : /chem/msd3.i/3-072696.b/BNA1201012.d
 Lab. Id. : DFTPP02
 Inj Date : 26-JUL-96 19:07
 Operator : GORDON
 Smp Info : 50ng OF DFT-05-(39)
 Misc Info : INSTRUMENT TUNE FOR msd3.i
 Comment :
 Method : /chem/msd3.i/3-072696.b/dftpp298.m
 Meth Date : 26-Jul-1996 06:48
 Cal Date :
 Als bottle: 12
 Dil Factor: 1.000
 Integrator: HP RTE
 Sample Type: WATER

Autotune Date: 26-Jul-96 07:03:3
 Inst ID: msd3.i
 Cal File:
 QC Sample: DFTPP
 Target Version: Target 2.20
 Compound Sublist: all.sub

RT (REL RT) MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
		OH-COL	FINAL		
	(ug/L)	(ug/L)			
1 dftpp					
7.467(0.000)	198	167877		CAS #: 5074-71-5	
7.467(0.000)	51	90453			100.00(Q)
7.467(0.000)	68	0		0.00-	0.00 53.88
7.467(0.000)	69	122112		0.00-	0.00 0.00
7.467(0.000)	70	253		0.00-	0.00 72.74
7.467(0.000)	127	83824		0.00-	0.00 0.21
7.467(0.000)	197	0		0.00-	0.00 49.93
7.467(0.000)	199	11567		0.00-	0.00 0.00
7.467(0.000)	275	39386		0.00-	0.00 6.89
7.467(0.000)	365	4652		0.00-	0.00 23.46
7.467(0.000)	441	18184		0.00-	0.00 2.77
7.467(0.000)	442	123629		0.00-	0.00 75.67
7.467(0.000)	443	24032		0.00-	0.00 73.64
				0.00-	0.00 19.44

QC Flag Legend

Q - Qualifier signal failed the ratio test.

EcoSys, Inc.

TARGET COMPOUNDS

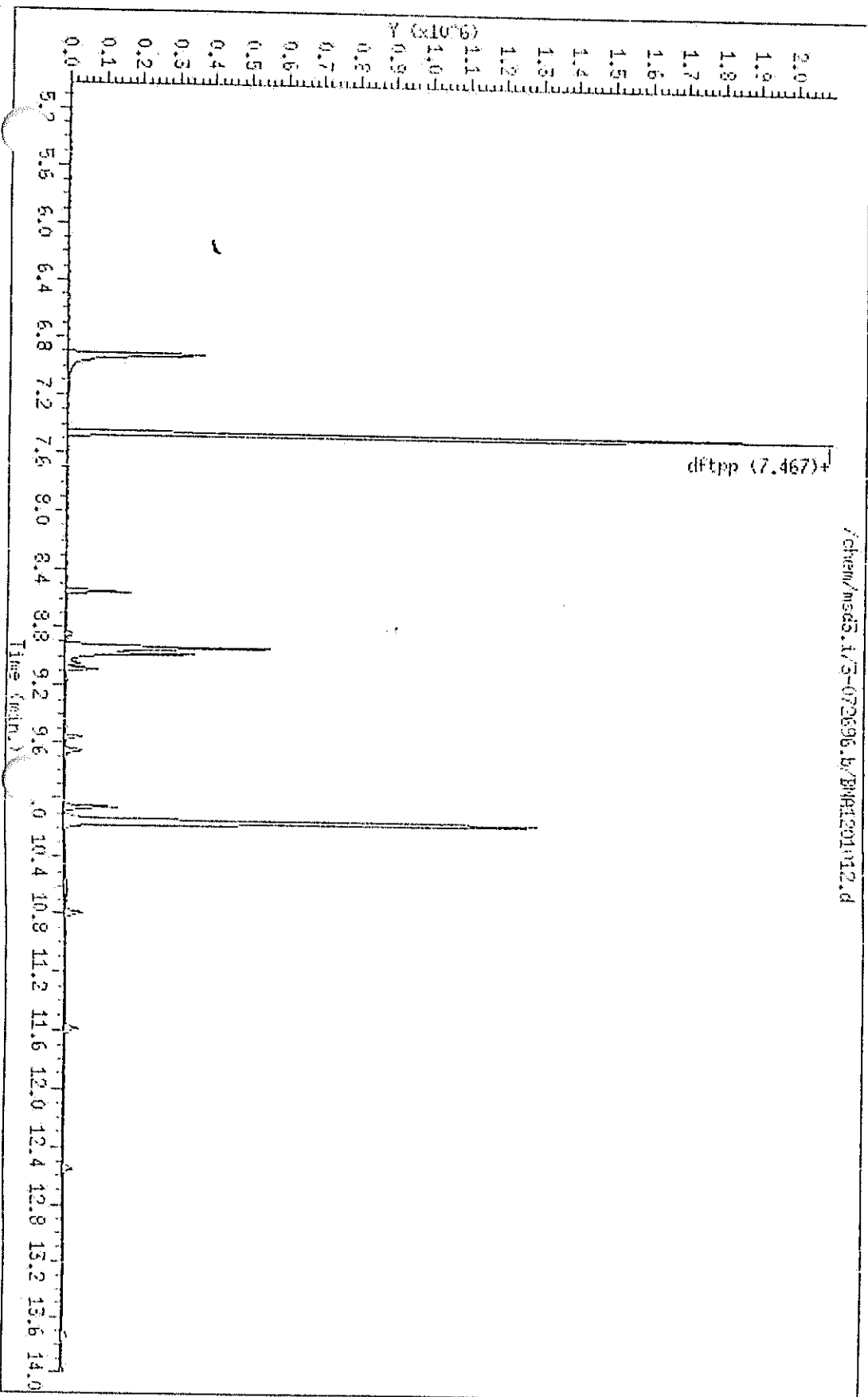
Client Name: Client SOG: 3-072696.b
Client Sample ID: DFTPP02 Sample Date:
Sample Location: Sample Point:
Lab Sample ID: DFTPP02 Date Received:
Sample Type: WATER
Analysis Type: SU Level: LOW
Data Type: MS DATA Column Number: 1
Misc Info: INSTRUMENT TUNE FOR msd3.i

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG)	ug/L
5074-71-5-----	dftpp	0.01	
=====	=====	=====	=====

Data File: /chem/med3.i/3-072696.b/BH1201012.d
Date : 26-JUL-96 19:07
Instrument : med3.i
Sample ID : DFTPP02
Column Phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00

Page: 3



Date : 26-JUL-96 19:07

Instrument : msd3.1

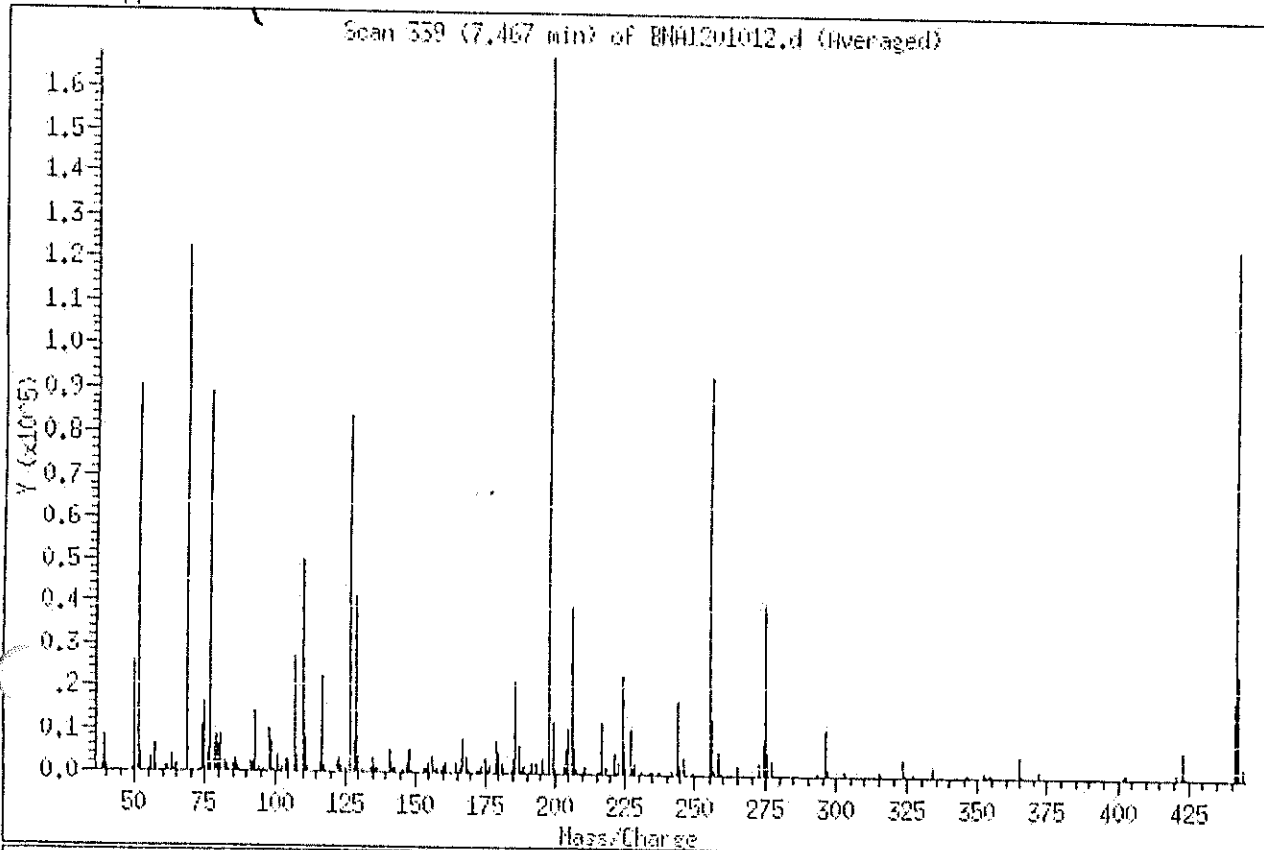
Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	53.9
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	72.7
70	Mass 70 relative abundance	0.2
127	Mass 127 relative abundance	49.9
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.9
275	Mass 275 relative abundance	23.5
365	Mass 365 relative abundance	2.8
441	Mass 441 relative abundance	75.7
442	Mass 442 relative abundance	73.6
443	Mass 443 relative abundance	19.4

Date : 26-JUL-96 19:07

Instrument : msd3.1

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 333-341 (7.467 min) Subtraction Scan 335
 Base Peak: 198.00
 Number of mass peaks: 180

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	239	111.00	7706	179.00	6974	246.00	3347
38.00	1520	112.00	864	180.00	4402	249.00	295
39.00	8023	116.00	1948	181.00	1806	255.00	93418
49.00	420	117.00	22063	184.00	270	256.00	12950
50.00	25434	118.00	1577	185.00	3158	257.00	806
51.00	90453	122.00	1884	186.00	20884	258.00	4910
52.00	3875	123.00	3310	187.00	5952	259.00	321
55.00	610	124.00	1544	188.00	313	265.00	2109
56.00	2941	125.00	1105	189.00	1397	273.00	2782
57.00	5964	127.00	83824	191.00	555	274.00	7218
61.00	827	128.00	6966	192.00	1957	275.00	39386
62.00	1106	129.00	40090	193.00	1914	276.00	5231
63.00	3816	130.00	3759	196.00	3247	277.00	2961
64.00	317	131.00	558	198.00	167877	285.00	239
65.00	1610	134.00	1111	199.00	11567	293.00	435
69.00	122112	135.00	3052	200.00	776	296.00	10290
70.00	253	136.00	1024	203.00	1408	297.00	1550
73.00	725	137.00	1171	204.00	5869	303.00	1208
74.00	10017	141.00	5170	205.00	10113	314.00	251
75.00	16123	142.00	1102	206.00	39114	315.00	1280
76.00	5179	143.00	895	207.00	5434	316.00	299
77.00	88608	146.00	708	208.00	1159	323.00	3433
78.00	6416	147.00	2268	210.00	393	324.00	312
79.00	8222	148.00	5311	211.00	1462	327.00	333
80.00	6026	149.00	711	215.00	263	334.00	2013
81.00	8262	151.00	244	216.00	491	346.00	294
82.00	1960	153.00	1222	217.00	11858	352.00	842
83.00	1688	154.00	982	218.00	1320	353.00	335
85.00	1662	155.00	2017	221.00	4437	354.00	692
86.00	2604	156.00	3351	222.00	396	365.00	4652
87.00	920	157.00	537	223.00	2608	366.00	295
91.00	1909	158.00	807	224.00	22361	372.00	1530
92.00	2270	159.00	323	225.00	5218	402.00	327
93.00	13990	160.00	1510	227.00	10260	403.00	787
94.00	775	161.00	1935	228.00	1538	421.00	782

Date : 26-JUL-96 19:07

Instrument : msd3.i

Sample ID : DFTFP02

Column phase :

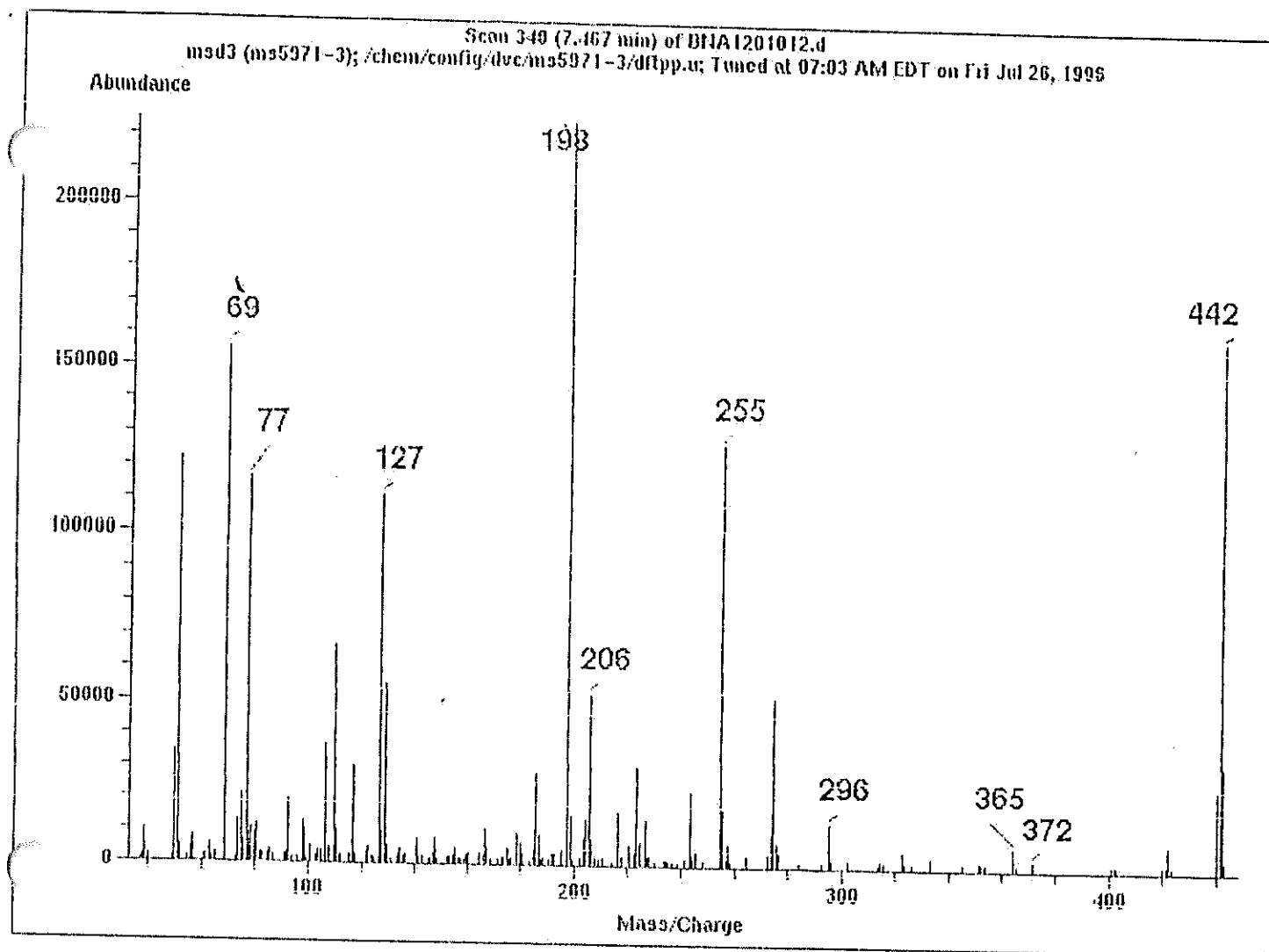
Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 339-341 (7.467 min) Subtraction Scan 335
Base Peak: 198.00
Number of mass peaks: 180

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
96.00	351	165.00	1971	229.00	1907	422.00	595
98.00	9618	166.00	1116	231.00	282	423.00	6073
99.00	6893	167.00	7767	234.00	619	424.00	746
100.00	261	168.00	3415	235.00	325	441.00	18184
101.00	3351	169.00	553	236.00	238	442.00	123629
103.00	1008	172.00	638	237.00	258	443.00	24032
104.00	2405	173.00	504	239.00	244	444.00	2157
105.00	2558	174.00	1540	242.00	1205		
107.00	26607	175.00	3016	243.00	330		
108.00	3592	176.00	689	244.00	16936		
110.00	50050	177.00	1540	245.00	2273		

Scan 349 (7.467 min) of DHA1201012.d
msd3 (ms5971-3); /chem/config/dvc/ms5971-3/01pp.u; Tuned at 07:03 AM EDT on Fri Jul 26, 1996



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	54.2
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	69.2
70	Less than 2.0% of mass 69	0.0
127	40.0 to 60.0% of mass 198	49.3
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1% of mass 198	3.0
441	Present, but less than mass 443	76.2
442	Greater than 40.0% of mass 198	71.5
443	17.0 - 23.0% of mass 442	20.2

Ecosys, Inc.

BASE NEUTRAL QUANT AND RATIO REPORT

Data File : /chem/msd3.i/3-072696.b/BNA1301013.d
Lab. Id. :
Inj Date : 26-JUL-1996 19:25 Autotune Date: 26-Jul-96 07:03:3
Operator : GORDON Inst ID: msd3.i
Smp Info : BNA-80-38
Misc Info : CONTINUE CALIBRATION
Comment :
Method : /chem/msd3.i/3-072696.b/MA-BNA_2.m
Meth Date : 29-Jul-1996 08:29 target
Cal Date : 26-JUL-96 19:25 Cal File: BNA1301013.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

Compounds	QUANT SIG MASS	RT (REL RT)	RESPONSE	CONCENTRATIONS	
				ON-COLUMN (ng/ul)	FINAL (ug/L)
1 2-Fluorophenol	112.00	9.252(0.735)	510815	81.8	81.8
2 Phenol-d5	99.00	12.297(0.976)	722722	78.1	78.1
3 Aniline	93.00	11.754(0.933)	797877	77.6	77.6
4 Phenol **	94.00	12.346(0.980)	761583	85.4	85.4
5 Bis(2-chloroethyl) ether	93.00	12.030(0.955)	634368	80.3	80.3
6 2-Chlorophenol	128.00	12.277(0.975)	557350	81.8	81.8
7 1,3-Dichlorobenzene	146.00	12.415(0.986)	556836	78.5	78.5
* 8 1,4-Dichlorobenzene-d4	152.00	12.594(1.000)	195747	40.0	
9 1,4-Dichlorobenzene **	146.00	12.653(1.005)	575346	79.2	79.2
10 1,2-Dichlorobenzene	146.00	13.038(1.035)	560490	79.0	79.0
11 Benzyl alcohol	79.00	13.226(1.050)	698061	81.2	81.2
12 2-Methylphenol	108.00	13.808(1.096)	506275	80.6	80.6
13 Bis(2-chloroisopropyl) ether	45.00	13.522(1.074)	887099	77.9	77.9
14 4-Methylphenol	108.00	14.233(1.130)	518750	80.4	80.4(MH)
15 N-Nitrosodi-n-propylamine *	70.00	13.907(1.104)	555113	80.1	80.1
16 Hexachloroethane	117.00	13.927(1.106)	324077	78.6	78.6
* 17 Nitrobenzene-d5	82.00	14.174(0.885)	975186	81.7	81.7
18 Nitrobenzene	77.00	14.233(0.889)	1233861	98.5	98.5
19 Isophorone	82.00	14.924(0.932)	1534943	81.0	81.0
20 2-Nitrophenol **	139.00	15.082(0.942)	367420	82.1	82.1
21 2,4-Dimethylphenol	107.00	15.486(0.967)	655249	82.3	82.3
22 Bis(2-Chloroethoxy)methane	93.00	15.566(0.972)	736974	79.5	79.5
23 2,4-Dichlorophenol **	162.00	15.980(0.998)	414857	83.7	83.7
24 Benzoic acid	105.00	16.149(0.000)	215819	73.7	73.7(AM)
25 1,2,4-Trichlorobenzene	180.00	15.891(0.993)	504726	82.1	82.1
* 26 Naphthalene-d8	136.00	16.010(1.000)	656567	40.0	
27 Naphthalene	128.00	16.070(1.004)	1358265	78.4	78.4
28 4-Chloroaniline	127.00	16.337(1.020)	533490	82.0	82.0
29 Hexachlorobutadiene **	225.00	16.446(1.027)	405260	82.7	82.7
30 4-Chloro-3-methylphenol **	107.00	17.935(1.120)	566051	81.3	81.3
31 2-Methylnaphthalene	142.00	17.895(1.118)	1238444	98.6	98.6

Compounds	QUANT MASS	SIG	RT (REL RT)	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng/ul)	FINAL (ug/L)
32 Hexachlorocyclopentadiene *	237.00		18.300(0.890)	280196	85.2	85.2
33 2,4,6-Trichlorophenol **	196.00		18.774(0.913)	274879	81.3	81.3
34 2,4,5-Trichlorophenol	196.00		19.090(0.928)	310546	80.4	80.4
35 2-Fluorobiphenyl	172.00		18.902(0.919)	993271	75.6	75.6
36 2-Chloronaphthalene	162.00		19.150(0.931)	820352	78.0	78.0
37 2-Nitroaniline	65.00		19.535(0.950)	452137	80.6	80.6
38 Dimethyl phthalate	163.00		20.028(0.974)	1072644	77.3	77.3
39 2,6-Dinitrotoluene	165.00		20.176(0.981)	252085	78.2	78.2
40 Acenaphthylene	152.00		20.196(0.982)	1220233	77.2	77.2
41 3-Nitroaniline	138.00		20.620(1.003)	204089	80.8	80.8
* 42 Acenaphthene-d10	164.00		20.561(1.000)	391260	40.0	
43 Acenaphthene **	153.00		20.660(1.005)	771958	77.8	77.8
44 2,4-Dinitrophenol *	184.00		20.897(1.016)	95975	76.6	76.6
45 4-Nitrophenol *	65.00		21.993(1.059)	38843	84.0	84.0(M)
46 2,4-Dinitrotoluene	165.00		21.194(1.031)	336791	82.1	82.1
47 Dibenzofuran	168.00		21.115(1.027)	1070251	78.2	78.2
48 Diethyl phthalate	149.00		21.855(1.063)	1145320	77.7	77.7
49 4-Chlorophenyl phenyl ether	204.00		22.053(1.073)	448044	78.6	78.6
50 Fluorene	166.00		21.993(1.070)	815443	78.2	78.2
51 4-Nitroaniline	138.00		22.221(1.081)	134234	75.6	75.6
52 4,6-Dinitro-2-methylphenol	198.00		22.241(0.912)	176983	84.2	84.2
3 N-Nitrosodiphenylamine **	169.00		22.399(0.919)	411250	78.4	78.4
54 1,2-Diphenylhydrazine	77.00		22.468(0.921)	2601610	73.8	73.8(A)
55 2,4,6-Tribromophenol	330.00		22.656(1.102)	162063	85.6	85.6
56 4-Bromophenyl phenyl ether	248.00		23.297(0.956)	275171	77.9	77.9
57 Hexachlorobenzene	283.70		23.387(0.959)	302681	79.4	79.4
58 Pentachlorophenol **	265.70		24.037(0.986)	67016	82.9	82.9
* 59 Phenanthrene-d10	188.00		24.382(1.000)	447380	40.0	
60 Phenanthrene	178.00		24.452(1.003)	945422	78.0	78.0
61 Anthracene	178.00		24.580(1.008)	927057	78.3	78.3
62 Carbazole	167.00		25.083(0.000)	869980	74.8	74.8(M)
63 Di-n-butyl phthalate	149.00		26.059(1.069)	1475367	78.6	78.6
64 Fluoranthene **	202.00		27.507(1.128)	882728	79.4	79.4
65 Pyrene	202.00		28.068(0.900)	890554	80.2	80.2
66 Terphenyl-d14	244.00		28.561(0.916)	589373	78.6	78.6
67 Butyl benzyl phthalate	149.00		29.892(0.958)	494223	79.4	79.4
68 Dioctyl adipate	129.00		30.148(0.967)	372927	80.5	80.5(A)
69 3,3'-Dichlorobenzidine	252.00		31.212(1.001)	120772	72.0	72.0(M)
70 Bis(2-ethylhexyl) phthalate	149.00		31.401(1.007)	643220	77.5	77.5
71 Benz(a)anthracene	228.00		31.173(0.999)	628537	80.8	80.8
* 72 Chrysene-d12	240.00		31.193(1.000)	248812	40.0	
73 Chrysene	228.00		31.262(1.002)	590254	79.7	79.7
74 Di-n-octyl phthalate **	149.00		32.977(0.947)	1070716	83.2	83.2
75 Benzo(b)fluoranthene	252.00		33.796(0.971)	559330	82.6	82.6
76 Benzo(k)fluoranthene	252.00		33.865(0.973)	599630	82.7	82.7
77 Benzo(a)pyrene **	252.00		34.664(0.995)	536941	84.5	84.5
Perylene-d12	264.00		34.822(1.000)	183555	40.0	
78 Indeno(1,2,3-cd)pyrene	276.00		39.633(0.000)	485399	88.0	88.0(M)
80 Dibenz(a,h)anthracene	278.00		38.627(1.109)	475285	85.3	85.3
81 Benzo(g,h,i)perylene	276.00		39.633(0.000)	463912	84.1	84.1(M)

Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Date : 26-JUL-1996 19:25

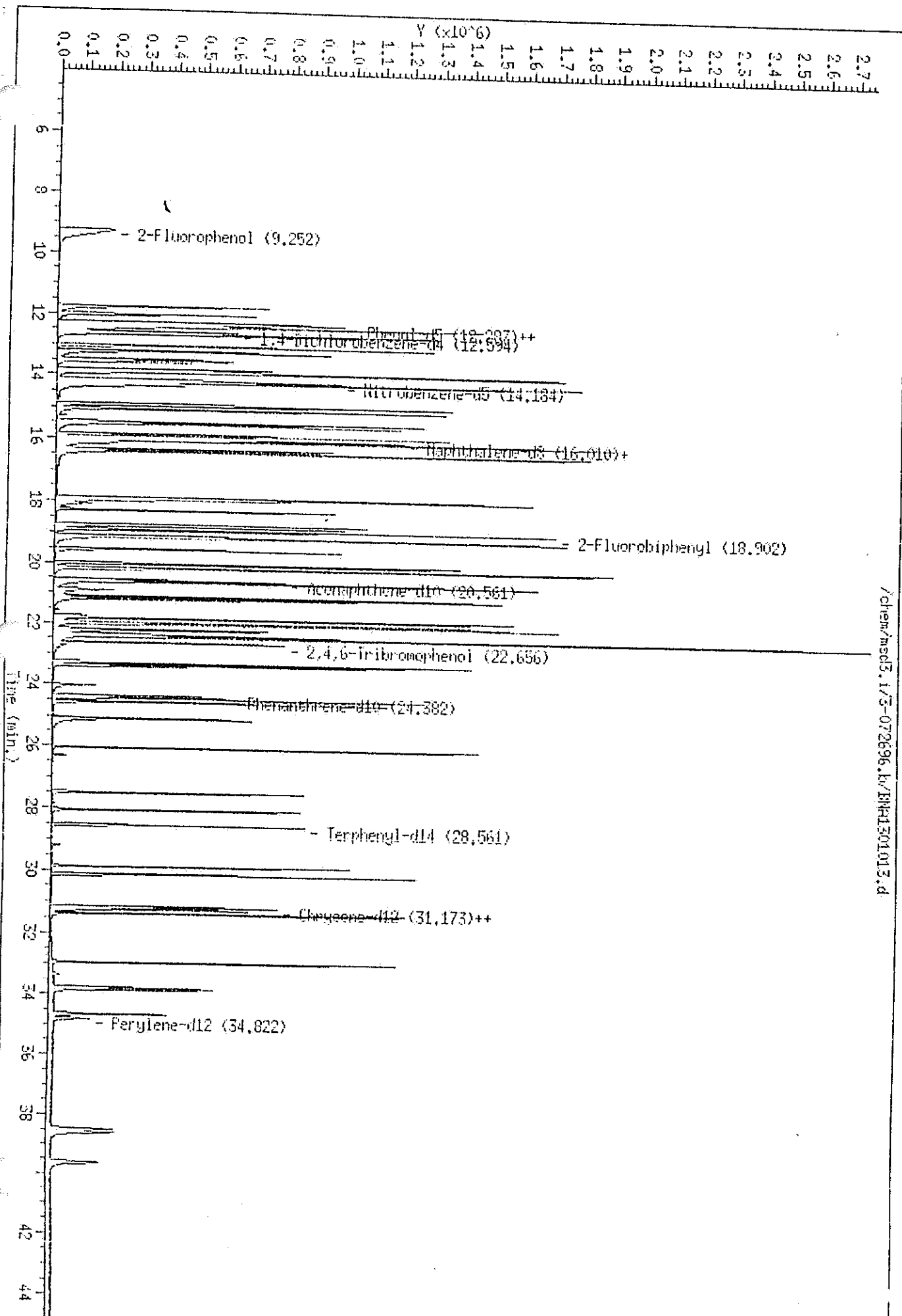
Instrument : msd3.1

Sample ID :

Column phase :

Volume Injected (ul) : 1.0

Column diameter : 0.20



Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 26-JUL-1996 19:25
Lab File ID: BNA1301013.d Init. Calibration Date(s): 03/10/93 07/26/96
Analysis Type: WATER Init. Calibration Times: 11:35 12:37
Lab Sample ID: Method File: /chem/msd3.i/3-072696.b/HA-BNA_2.m

COMPOUND	RRF	RF80	MIN	RRF	%D	MAX
=====	=====	=====	=====	=====	=====	=====
12-Fluorophenol	1.276	1.305	10.050	2.31	30.01	
1Phenol-d5	1.890	1.846	10.050	2.31	30.01	
1Aniline	2.101	2.038	10.050	3.01	30.01	
1Phenol **	1.822	1.945	10.050	6.81	30.01	
1Bis(2-chloroethyl) ether	1.615	1.620	10.050	0.31	30.01	
12-Chlorophenol	1.393	1.424	10.050	2.21	30.01	
11,3-Dichlorobenzene	1.449	1.422	10.050	1.81	30.01	
11,4-Dichlorobenzene **	1.484	1.470	10.050	1.01	30.01	
11,2-Dichlorobenzene	1.450	1.432	10.050	1.31	30.01	
1Benzyl alcohol	1.757	1.783	10.050	1.51	30.01	
12-Methylphenol	1.284	1.293	10.050	0.71	30.01	
1Bis(2-chloroisopropyl) ether	2.328	2.266	10.050	2.71	30.01	
14-Methylphenol	1.319	1.325	10.050	0.41	30.01	
1N-Nitrosodi-n-propylamine *	1.416	1.418	10.050	0.11	30.01	
1Hexachloroethane	0.843	0.828	10.050	1.81	30.01	
1Nitrobenzene-d5	0.727	0.743	10.050	2.11	30.01	
1Nitrobenzene	0.763	0.940	10.050	23.11	30.01	
1Isophorone	1.155	1.169	10.050	1.21	30.01	
12-Nitrophenol **	0.273	0.280	10.050	2.61	30.01	
12,4-Dimethylphenol	0.485	0.499	10.050	2.91	30.01	
1Bis(2-Chloroethoxy)methane	0.565	0.561	10.050	0.61	30.01	
12,4-Dichlorophenol **	0.302	0.316	10.050	4.61	30.01	
1Benzoic acid	0.178	0.164	10.010	7.91	30.01	
11,2,4-Trichlorobenzene	0.375	0.384	10.050	2.61	30.01	
1Naphthalene	1.055	1.034	10.050	1.91	30.01	
14-Chloroaniline	0.396	0.406	10.050	2.51	30.01	
1Hexachlorobutadiene **	0.298	0.309	10.050	3.41	30.01	
14-Chloro-3-methylphenol **	0.424	0.431	10.050	1.61	30.01	
12-Methylnaphthalene	0.765	0.943	10.050	23.21	30.01	
1Hexachlorocyclopentadiene *	0.336	0.358	10.050	6.61	30.01	
12,4,6-Trichlorophenol **	0.345	0.351	10.050	1.71	30.01	
12,4,5-Trichlorophenol	0.395	0.397	10.050	0.51	30.01	
12-Fluorobiphenyl	1.342	1.269	10.050	5.41	30.01	
12-Chloronaphthalene	1.076	1.048	10.050	2.61	30.01	
12-Nitroaniline	0.574	0.578	10.050	0.71	30.01	
1Dimethyl phthalate	1.418	1.371	10.050	3.31	30.01	
12,6-Dinitrotoluene	0.330	0.322	10.050	2.31	30.01	
1Acenaphthylene	1.615	1.559	10.050	3.41	30.01	
13-Nitroaniline	0.258	0.261	10.050	1.01	30.01	
1Acenaphthene **	1.014	0.987	10.050	2.81	30.01	
12,4-Dinitrophenol *	0.128	0.123	10.050	4.21	30.01	
14-Nitrophenol *	0.047	0.050	10.050	5.01	30.01	<-
12,4-Dinitrotoluene	0.419	0.430	10.050	2.71	30.01	
1Dibenzofuran	1.400	1.368	10.050	2.31	30.01	
1Diethyl phthalate	1.507	1.464	10.050	2.91	30.01	

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 26-JUL-1996 19:25
 Lab File ID: BNA1301013.d Init. Calibration Date(s): 03/10/93 07/26/96
 Analysis Type: WATER Init. Calibration Times: 11:35 12:37
 Lab Sample ID: Method File: /chem/msd3.i/3-072696.b/MA-BNA_2.m

COMPOUND	RRF	RF80	MIN	MAX
14-Chlorophenyl phenyl ether	0.583	0.573	0.050	1.7
Fluorene	1.066	1.042	0.050	2.2
4-Nitroaniline	0.182	0.172	0.050	5.5
4,6-Dinitro-2-methylphenol	0.188	0.198	0.050	5.2
N-Nitrosodiphenylamine **	0.469	0.460	0.050	1.9
1,2-Diphenylhydrazine	3.154	2.908	0.050	7.8
2,4,6-Tribromophenol	0.194	0.207	0.050	7.0
4-Bromophenyl phenyl ether	0.316	0.308	0.050	2.6
Hexachlorobenzene	0.341	0.338	0.050	0.7
Pentachlorophenol **	0.072	0.075	0.050	3.6
Phenanthrene	1.083	1.057	0.050	2.4
Anthracene	1.059	1.036	0.050	2.2
Carbazole	1.039	0.972	0.050	6.4
Di-n-butyl phthalate	1.679	1.649	0.050	1.8
Fluoranthene **	0.994	0.987	0.050	0.7
Pyrene	1.784	1.790	0.050	0.3
Terphenyl-d14	1.206	1.184	0.050	1.8
Butyl benzyl phthalate	1.001	0.993	0.050	0.8
Dioctyl adipate	0.744	0.749	0.050	0.7
3,3'-Dichlorobenzidine	0.270	0.243	0.050	10.0
Bis(2-ethylhexyl) phthalate	1.334	1.293	0.050	3.1
Benz(a)anthracene	1.250	1.263	0.050	1.0
Chrysene	1.191	1.186	0.050	0.4
Di-n-octyl phthalate **	2.803	2.917	0.050	4.0
Benzo(b)fluoranthene	1.476	1.524	0.050	3.2
Benzo(k)fluoranthene	1.580	1.633	0.050	3.4
Benzo(a)pyrene **	1.384	1.463	0.050	5.7
Indeno(1,2,3-cd)pyrene	1.201	1.322	0.050	10.1
Dibenz(a,h)anthracene	1.214	1.295	0.050	6.6
Benzo(g,h,i)perylene	1.201	1.264	0.050	5.2

SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107935	Extraction Method No.: 3550
Batch No(s): 0724960003	Date Extracted: 7/24/96
Lab File ID: BNA0701007	Date Analyzed: 7/26/96
Lab Sample ID: AB35918	Time Analyzed: 14:21
Cleanup Method: NA	Level: Low
Instrument ID: MSD-2	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	AB36319 LCS	BNA0801008	7/26/96
2	NA	AB36317 MS	BNA1801018	7/27/96
3	NA	AB36318 MSD	BNA1901019	7/27/96
4	201-A-T1-S1	AB35915	BNA1001010	7/26/96
5	201-B-T1-S1	AB35916	BNA1701017	7/26/96
6				
7				
8				
9				
10				

[Signature] 13 Aug 96

QA/QC Officer

Comments:

SemiVolatile MS/MSD Recovery

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107935

Matrix Spike/Spike dup AB35867

Batch No(s): 0724960003

AB36317 MS

Lab File ID: BNA1801018/BNA1901019

AB36318 MS

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Phenol	3330	ND	2830	85		26-90
2-Chlorophenol	3330	ND	2720	82		25-102
1,4-Dichlorobenzene	1670	ND	1490	89		28-104
N-Nitroso-di-n-propylamine	1670	ND	1520	91		41-126
1,2,4-Trichlorobenzene	1670	ND	1450	87		38-107
4-Chloro-3-methylphenol	3330	ND	3180	95		26-103
Acenaphthene	1670	ND	1830	110		31-137
4-Nitrophenol	3330	ND	13700	411	*	11-114
2,4-Dinitrotoluene	1670	ND	1520	91	*	28-89
Pentachlorophenol	3330	ND	3760	113	*	17-109
Pyrene	1670	ND	1890	113		35-142

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits	
Phenol	3330	2550	77		10		RPD	Recovery
2-Chlorophenol	3330	2520	76		8		35	26-90
1,4-Dichlorobenzene	1670	1330	80		11		50	25-102
N-Nitroso-di-n-propylamine	1670	1410	84		8		27	28-104
1,2,4-Trichlorobenzene	1670	1270	76		13		38	41-126
4-Chloro-3-methylphenol	3330	2960	89		7		23	38-107
Acenaphthene	1670	1610	96		13		33	26-103
4-Nitrophenol	3330	12800	384	*	7		19	31-137
2,4-Dinitrotoluene	1670	1410	84		8		50	11-114
Pentachlorophenol	3330	3710	111	*	1		47	28-89
Pyrene	1670	1590	95		17		47	17-109
							36	35-142

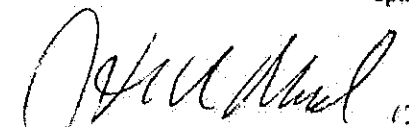
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ND = Not Detected

RPD: 0 out of 11 outside limits

Spike Recovery: 5 out of 22 outside limits


 QA/QC Officer

Comments: 4-Nitrophenol, 2,4-Dinitrotoluene, and Pentachlorophenol is outside the QC limits. (See Narrative)

Sample AB35867 is not an USACE-SAD sample.

SemiVolatile LCS Recovery

Lab Name: EcoSys, Inc.
 Ledger No(s): 107935
 Batch No(s): 0724960003
 Lab File ID: BNA0801008

Client: ACE-SAD
 Lab Control Spike: AB36319 LCS

Compound	Spike Added (ug/Kg)	Sample	LCS	LCS % Recovery	#	QC Limits Recovery
		Conc (ug/Kg)	Conc (ug/Kg)			
Phenol	3330	NR	1590	48		26-90
2-Chlorophenol	3330	NR	1500	45		25-102
1,4-Dichlorobenzene	1670	NR	797	48		28-104
N-Nitroso-di-n-propylamine	1670	NR	916	55		41-126
1,2,4-Trichlorobenzene	1670	NR	734	44		38-107
4-Chloro-3-methylphenol	3330	NR	1680	50		26-103
Acenaphthene	1670	NR	898	54		31-137
4-Nitrophenol	3330	NR	8310	250	*	11-114
2,4-Dinitrotoluene	1670	NR	758	45		28-89
Pentachlorophenol	3330	NR	1300	39		17-109
Pyrene	1670	NR	865	52		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: 1 out of 11 outside limits

[Signature]
 QA/QC Officer

Comments: 4-Nitrophenol is outside QC limits. (See Narrative)

SemiVolatile Surrogate Recovery (Soil)

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107935

Level: Low

Batch No.(s): 0724960003

Matrix: Soil

Lab	S1	S2	S3	S4	S5	S6	Total
Sample No.	(2FP) #	(PHL) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	Out
AB35918 MB	44	43	46	49	37	55	0
AB36319 LCS	44	43	44	48	47	54	0
AB36317 MS	82	78	82	103	99	118	0
AB36318 MSD	70	72	69	89	83	104	0
AB35915	35	36	35	42	36	51	0
AB35916	57	58	62	78	61	86	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: _____

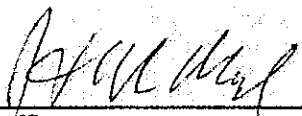
General Chemistry Method Blank Summary

Lab Name: EcoSys, Inc.
 Ledger: 107920
 Lab Sample ID: AB35822

Client: ACE-SAD

Client Sample ID: Soil Method Blank
 Prep Date: 7/17/96
 Batch ID: 071796B

	ANALYTE	BLANK VALUE	MDL mg/Kg	DATE ANALYZED
1	TRPH 9071A	<MDL	10.0	7/17/96
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

 13 Aug 96
 QA/QC Officer

Comments:

General Chemistry MS/MSD Recovery

Lab Name: EcoSys, Inc.
Ledger No(s): 107935

Client: ACESAD
AB35916 REF

MS	Spike Added mg/Kg	Sample Conc. mg/Kg	MS Conc. mg/Kg	MS % Recovery	QC Limits Required
TRPH 9071A	151	63	200	91	80-120

MSD	Spike Added mg/Kg	MSD Conc. mg/Kg	MSD % mg/Kg	QC Limits Required	%RPD
TRPH 9071A	151	197	89	80-120	2

NR = Not Required

NC = Not Calculable due to values less than CRDL

ND = Not Detected


QC Officer

Comments:

Results are reported on a wet weight basis.

General Chemistry LCS Recovery

Lab Name: EcoSys, Inc.
Ledger No(s): 107935

Client: ACE-SAD

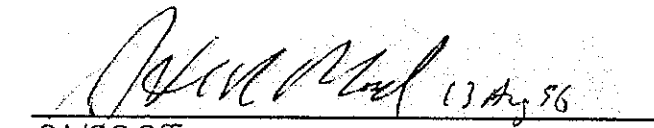
LCS

	Spike Added mg/Kg	Sample Conc. mg/Kg	LCS Conc. mg/Kg	LCS % Recovery	QC Limits Required
TRPH 9071A	151	NR	145	96	80-120

NR = Not Required

ND = Not Detected

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


QA/QC Officer

Comments:

Results are reported on a wet weight basis.

General Chemistry Duplicate Recovery

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 107935

Sample AB35915

	Sample Result (mg/Kg)	Dup. Sample Result (mg/Kg)	% RPD
TRPH 9071A	35	34	2.9

RPD Limit 20%

NR = Not Required

ND = Not Detected

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


QA/QC Officer

Comments:

Results are reported on a wet weight basis.

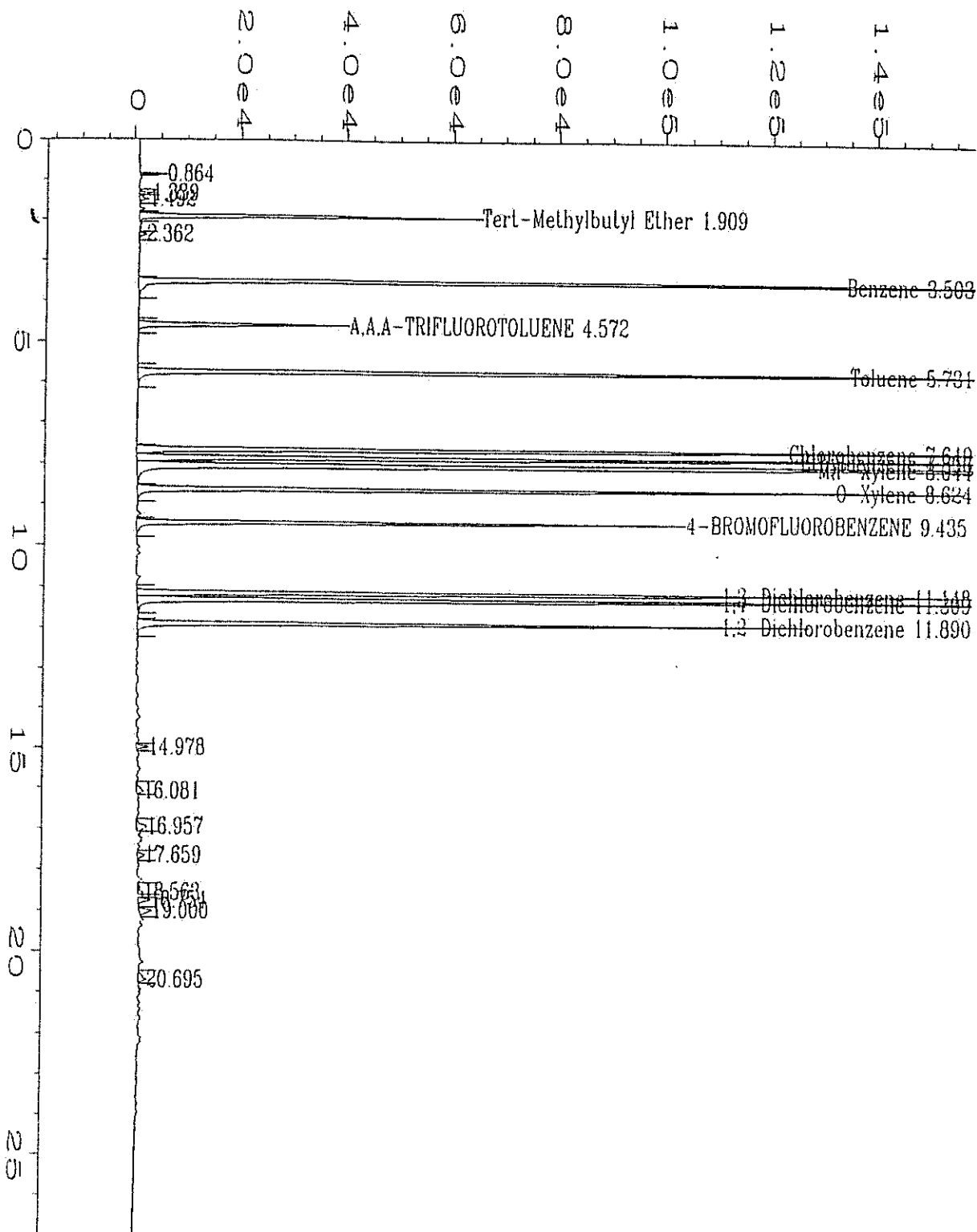
External Standard Report

```

Data File Name   : C:\HPCHEM\1\DATA\b072596\30725F05.D
Operator        : Doug Anderson
Instrument       : GC3
Sample Name      : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on     : 25 Jul 96 05:30 PM
Report Created on: 29 Jul 96 07:27 AM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier      : 1
Sample Info     : 16ppb surr
Page Number     : 1
Vial Number     : 5
Injection Number: 1
Sequence Line   : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\b072596\30725F05.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.909	242415	VV	0.059	1	20.973	Tert-Methylbutyl Ether
3.503	749475	BB	0.056	1	19.144	Benzene
4.572	163476	BV	0.064	1	14.800	A,A,A-TRIFLUOROTOLUENE
5.731	707058	BB	0.059	1	18.819	Toluene
7.649	713953	BV	0.058	1	18.943	Chlorobenzene
7.856	633169	VV	0.061	1	18.830	Ethylbenzene
8.044	1457548	VV	0.061	1	37.656	M,P-Xylene
8.624	611275	VV	0.061	1	18.522	O-Xylene
9.435	385128	PV	0.058	1	15.122	4-BROMOFLUOROBENZENE
11.148	637137	PV	0.059	1	18.837	1,3-Dichlorobenzene
11.309	640071	VV	0.059	1	18.683	1,4-Dichlorobenzene
11.890	488121	BB	0.060	1	20.496	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b072596\30725F05.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 5
Instrument	: GC3	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 3B061396.MTH
Acquired on	: 25 Jul 96 05:30 PM	Analysis Method	: 3B061396.MTH
Report Created on:	: 29 Jul 96 07:27 AM	Sample Amount	: 0
Last Recalib on	: 14 JUN 96 10:38 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 16ppb surr		

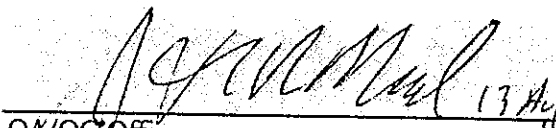
BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107935	
Batch No: 072596BW	Date Analyzed: 7/25/96
Lab File ID: 30725F06	Time Analyzed: 6:03
Lab Sample ID: AB35919	Level: Low
Instrument ID: GC3	Matrix: Water

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

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36560 LCS	30725F07	7/25/96
2	NA	AB36561 MS	30725F08	7/25/96
3	NA	AB36562 MSD	30725F09	7/25/96
4	TRIP BLANK	AB35917	30725F10	7/25/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable

 13 Aug 96
QA/QC Officer

Comments:

Water BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc.
 Ledger No: 107935
 Batch No: 072596BW
 Lab File ID: 30725F08/30725F09

Client: ACE-SAD
 Matrix Spike/Matrix Dup No.: AB35917 REF
 AB36561 MS
 AB36562 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	18	90		80-120
Toluene	20	ND	18	89		80-120
Ethylbenzene	20	ND	18	90		80-120
m,p-Xylene	40	ND	36	90		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	87		3		RPD	Recovery
Toluene	20	17	87		2		30	80-120
Ethylbenzene	20	18	88		2		30	80-120
m,p-Xylene	40	35	88		2		30	80-120
o-Xylene	20	17	87		2		30	80-120

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

* Values outside of QC 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

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749

Ludowici, Georgia 31316

Office (912) 368-7488 • Plant (912) 876-8085

Date	19	Load No.	17
Customer	Triple "R" Mgmt.	Description	PCS
Project Number	RRR 104		
Location	Ft Stewart	County	Liberty

40300 lb Net

23180 lb Tare

63480 lb+ Gross

01:11 PM AU 12 90

Chad
Signature of Weigher

TONS:

20.15

TOTAL TONS:

349.94

TRUCKER

DRIVER

Hendrix
Anthony Richard

TRUCK NO.

TICKET NO. 58841

201A

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

NON-HAZARDOUS WASTE MANIFEST

Manifest
Document No.
0000000000

1. Page 1
of 1

2. Generator's Name and Mailing Address
Ft. Stewart

Hinesville, GA 31313

3. Generator's Phone (912) 234-6579

4. Transporter 1 Company Name
Hendricks Hauling

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address Triple R Management, Inc.

c/o Reynolds Constr Co.

Rt. 84

Ludowici, GA 31316

A. Transporter's Phone

B. Transporter's Phone

912-427-6758

C. Facility's Phone

912-756-3655

7. Waste Shipping Name and Description

8. Containers

9. Total Quantity

10. Unit Wt/Vol

No.

Type

a. Petroleum Contaminated Soil

1

TT

18.00

CY

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

11. Special Handling Instructions and Additional Information

8101

Tank # 201A

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Tom C. Fry

Signature

Tom C. Fry

Month Day Year

08/06/96

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Anthony Reckant

Signature

Anthony Reckant

Month Day Year

08/12/96

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Charles Pruitt

Signature

Charles Pruitt

Month Day Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

08/12/96

ORIGINAL - RETURN TO GENERATOR

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749

Ludowici, Georgia 31316

Office (912) 368-7488 • Plant (912) 876-8085

Date _____ 19____ Load No. 16
Triple "R" Mgt. PCS
Customer RRR 104 Description _____
Project Number _____
Ft. Stewart Liberty
Location _____ County _____

40720 1b Net

21400 1b Tare

62120 1b+ Gross

01:00 PM AU 12 96

[Signature]
Signature of Weigher

TONS:

20.36

TOTAL TONS:

329.79

Hendrix
TRUCKER

50
TRUCK NO.

[Signature]
DRIVER

TICKET NO.

58840

NON-HAZARDOUS WASTE MANIFEST

Manifest
Document No.
00005

1. Page 1
of 1

2. Generator's Name and Mailing Address

Ft. Stewart
Hinesville, GA 31313

3. Generator's Phone (912) 234-6579

4. Transporter 1 Company Name

Hendricks Hauling

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address

c/o Triple R Management, Inc.
Reynolds Constr Co.
Rt. 84
Ludowici, GA 31316

A. Transporter's Phone

B. Transporter's Phone 912-427-6758

C. Facility's Phone

912-756-3655

7. Waste Shipping Name and Description

a. Petroleum Contaminated Soil

8. Containers

No.

Type

9.
Total
Quantity

10.
Unit
Wt/Vol

1

TT

18.00

CY

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

11. Special Handling Instructions and Additional Information

8101

Tank # 201A

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Tom C. Fry

Signature

Tom C. Fry

Month Day Year

10/8/96

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Shawn Pepe

Signature

Shawn Pepe

Month Day Year

10/8/96

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

15. Discrepancy Indication Space

6. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

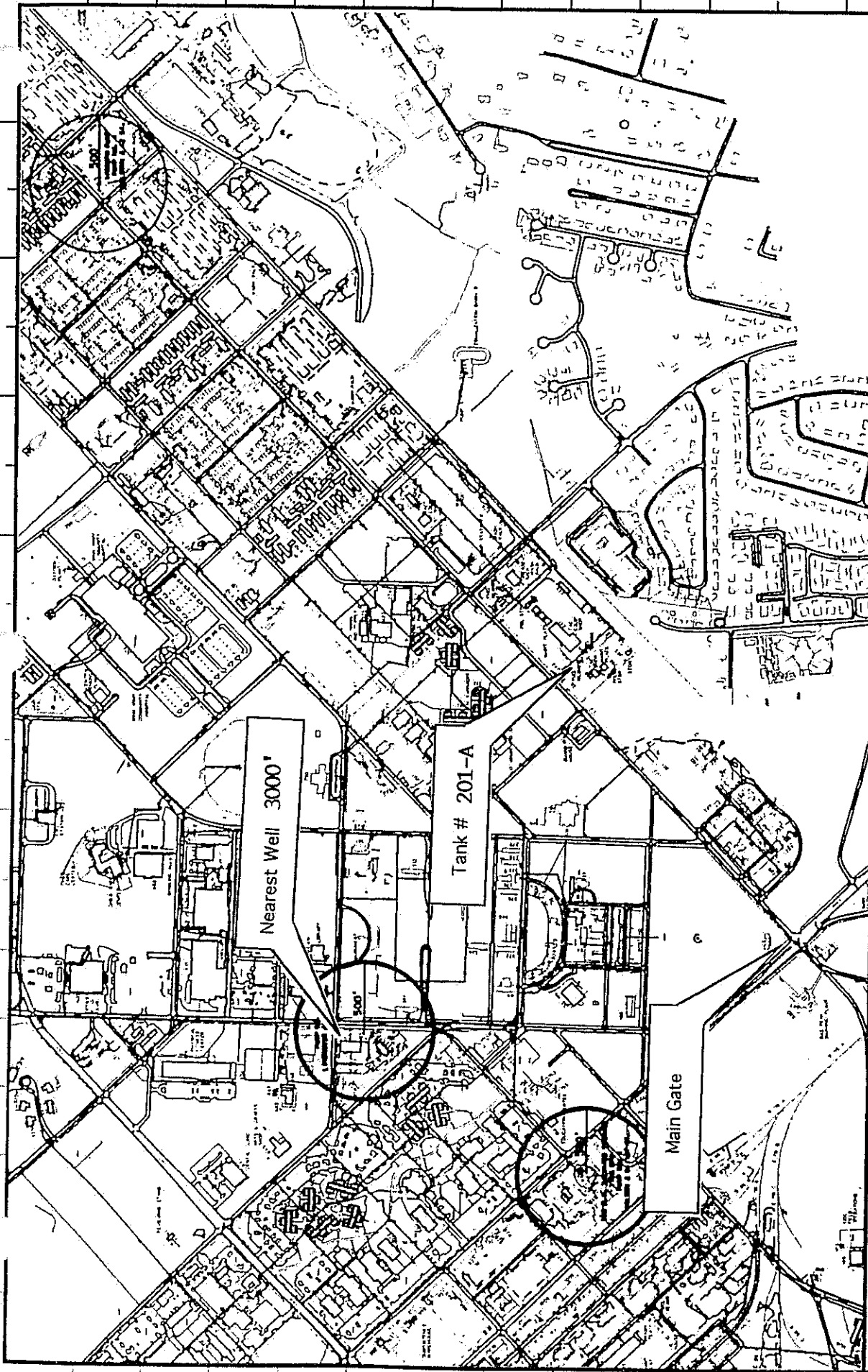
Month Day Year

10/8/96

ORIGINAL - RETURN TO GENERATOR

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart.



ANDERSON COLUMBIA

ENVIRONMENTAL INC.
P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 753-1196

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

Area Map for Tank # 201-A

Fort Stewart

Hinesville, Georgia

DRAWING NO.: FIGURE 1

CLOSURE REPORT ADDENDUM

FACILITY IDENTIFICATION #9-089043
UST #201A

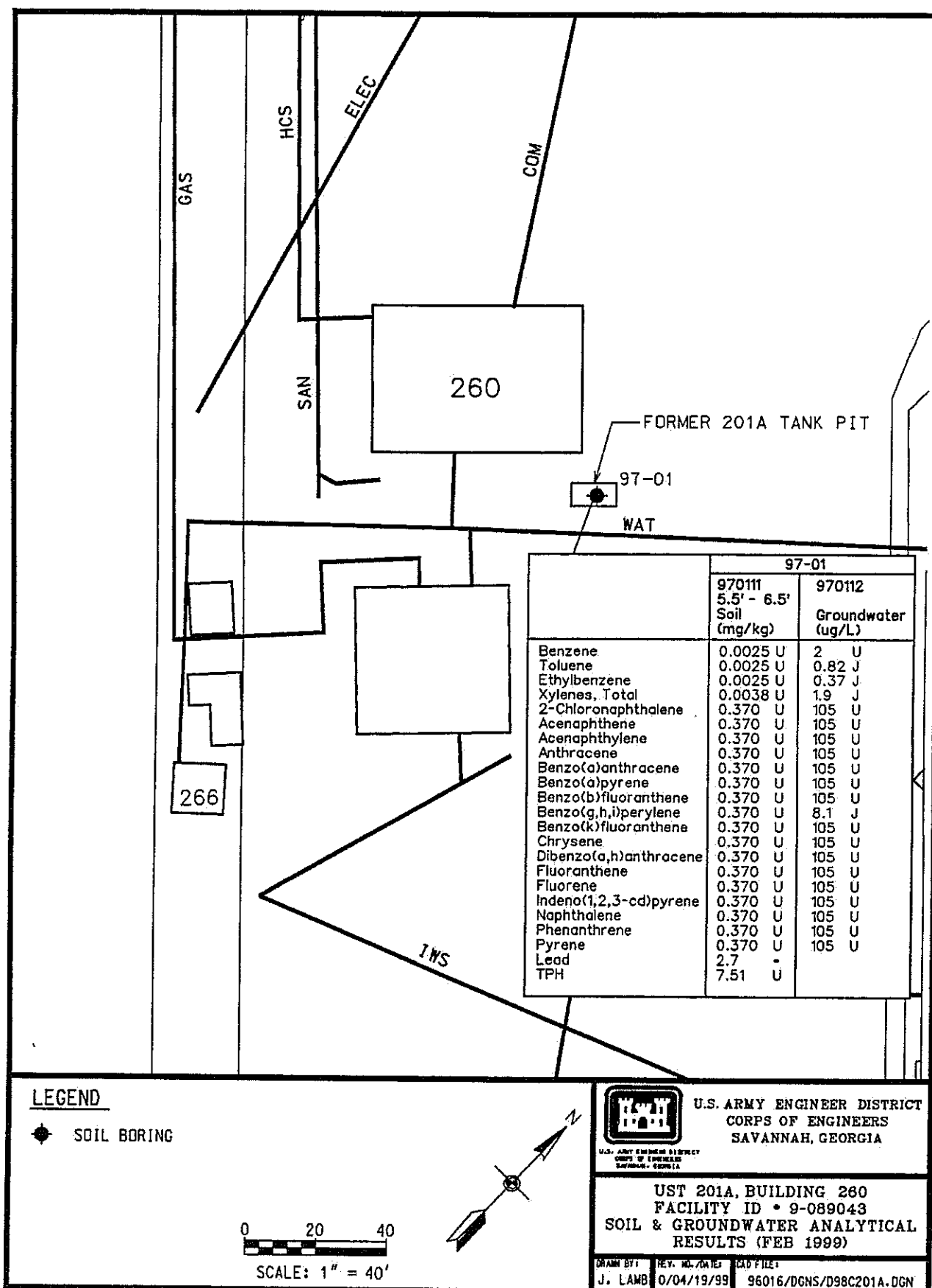
APRIL 30, 1999

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

CLOSURE REPORT ADDENDUM
UST #201A, FACILITY ID. NO. 9-089043

SITE MAPS
TAB 5

Attached is a site map indicating the location of the boring (97-01) installed in February 1999, for resampling of the former UST #201A site. In addition, a soil boring log is provided for your use and convenience.



CLOSURE REPORT ADDENDUM
UST #201A, FACILITY ID. NO. 9-089043

CLOSURE OF PIPING
TAB 6

The undersigned certifies that the piping associated with former UST #201A, located at Building 260, 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).

The undersigned also certifies that the piping at this facility, from tank to motorpool, was approximately 10-15 feet. Therefore, in accordance with GUST-9, pipeline sampling is not required.

Name: Thomas C. Fry

Title: Acting Chief, Environmental
& Natural Resources Division

Signature: Thomas C. Fry Date: 04/25/99

CLOSURE REPORT ADDENDUM
UST #201A, FACILITY ID. NO. 9-089043

LABORATORY ANALYTICAL DATA
TAB 7

As requested, the site was resampled and the associated analytical data, with a summary table, is attached.

**Table 1. Summary of Soil and Groundwater Analytical Results for the UST 201A site,
Facility ID #9-089043**

Station:		97-01			97-01
Sample ID:	Georgia UST	970111	Federal	In Stream	970112
Sample Interval (ft BGS):	Soil Threshold	5.5' - 6.5'	SWDA	Water Quality	
Collection Date:	Levels	22-Feb-99	MCLs	Standards	22-Feb-99
Units:	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)	(ug/L)
VOLATILE ORGANIC COMPOUNDS					
Benzene	0.008	0.0025 U	5	71.28	2 U
Toluene	10	0.0025 U	1000	200000	0.82 J
Ethylbenzene	6	0.0025 U	700	28718	0.37 J
Xylenes, Total	700	0.0038 U	10000	NRC	1.9 J
POLYNUCLEAR AROMATIC HYDROCARBONS					
2-Chloronaphthalene	NRC	0.370 U	NRC	NRC	105 U
Acenaphthene	NRC	0.370 U	NRC	NRC	105 U
Acenaphthylene	NRC	0.370 U	NRC	NRC	105 U
Anthracene	NRC	0.370 U	NRC	110000	105 U
Benzo(a)anthracene	NRC	0.370 U	NRC	0.0311	105 U
Benzo(a)pyrene	NRC	0.370 U	0.2	0.0311	105 U
Benzo(b)fluoranthene	NRC	0.370 U	NRC	NRC	105 U
Benzo(g,h,i)perylene	NRC	0.370 U	NRC	NRC	8.1 J
Benzo(k)fluoranthene	NRC	0.370 U	NRC	0.0311	105 U
Chrysene	NRC	0.370 U	NRC	0.0311	105 U
Dibenzo(a,h)anthracene	NRC	0.370 U	NRC	0.0311	105 U
Fluoranthene	NRC	0.370 U	NRC	370	105 U
Fluorene	NRC	0.370 U	NRC	14000	105 U
Indeno(1,2,3-cd)pyrene	NRC	0.370 U	NRC	0.0311	105 U
Naphthalene	NRC	0.370 U	NRC	NRC	105 U
Phenanthrene	NRC	0.370 U	NRC	NRC	105 U
Pyrene	NRC	0.370 U	NRC	11000	105 U
Other Analytes					
Lead	NRC	2.7 =			
Total Petroleum Hydrocarbons	NRC	7.51 U			

U Indicates that the compound was not detected above the reported sample quantitation limit

J Indicates that the value for the compound was an estimated value

UJ Indicates that the sample was not detected above an approximate sample quantitation limit

= Indicates that the compound was detected at the concentration reported

NOTE: Elevated PAH detection limits are a result of associated organic compounds such as TPH. During extraction of PAH compounds, all other organic compounds are extracted, causing a wide range of organic compounds to be present; thus, the target PAHs become small peaks in the chromatograph. As a result, the laboratory dilutes the concentrate, in turn elevating the detection limits.

HTRW DRILLING LOG

HOLE NUMBER 97-01

PROJECT: Fort Stewart USTs

INSPECTOR K. Ledbetter

SHEET 1 OF 1

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		CONCRETE				
	1	Sandy CLAY (CH), 15% fine grained sand, medium plasticity, soft, moist, red (10YR4/8)				
	2	Sandy SILT (ML) 10% fine grained sand, soft, moist, dark brown (10YR3/3)				
	3					
	4					
	5					
	6	Silty SAND (SM), 20% silt, fine grained, soft, dry, grayish brown (10YR5/2)	0.4ppm		Soil Sample 97011	
	7					WET BELOW 6.5 FT BGS
	8	SILT (ML), soft, wet, black (10YR2/1)				
	9					COLLECTED GROUNDWATER SAMPLE 970112 FROM TEMPORARY PIEZOMETER SCREENED FROM 0.0 TO 10.0 FT BGS
	10					PUSHED TO 10.0 FT BGS TO SET TEMPORARY PIEZOMETER

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

970111

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FSA09S

Matrix: (soil/water) SOIL Lab Sample ID: 9902838-10

Sample wt/vol: 4.4 (g/mL) G Lab File ID: 2Y416

Level: (low/med) LOW Date Received: 02/22/99

% Moisture: not dec. 10 Date Analyzed: 03/04/99

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene	2.5	U	
108-88-3-----toluene	2.5	U	
100-41-4-----ethylbenzene	2.5	U	
1330-20-7-----xylenes (total)	3.8	U	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

970111

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FSA09S

Matrix: (soil/water) SOIL Lab Sample ID: 9902838-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 7I507

Level: (low/med) LOW Date Received: 02/22/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 02/24/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 02/26/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

91-20-3	naphthalene	370	U
91-58-7	2-chloronaphthalene	370	U
208-96-8	acenaphthylene	370	U
83-32-9	acenaphthene	370	U
86-73-7	fluorene	370	U
85-01-8	phenanthrene	370	U
120-12-7	anthracene	370	U
206-44-0	fluoranthene	370	U
129-00-0	pyrene	370	U
56-55-3	benzo(a)anthracene	370	U
218-01-9	chrysene	370	U
205-99-2	benzo(b)fluoranthene	370	U
207-08-9	benzo(k)fluoranthene	370	U
50-32-8	benzo(a)pyrene	370	U
193-39-5	indeno(1,2,3-cd)pyrene	370	U
53-70-3	dibenz(a,h)anthracene	370	U
191-24-2	benzo(g,h,i)perylene	370	U

DATA
CITY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Leslie Barbour
Project Description: CAP-Part A and B UST Sites

cc: SAIC00299

Report Date: March 17, 1999

Page 1 of 1

Sample ID : 970111
Lab ID : 9902838-10
Matrix : Soil
Date Collected : 02/22/99
Date Received : 02/22/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons	U	7.51	U	11.0	22.2	mg/kg	1.0	AAT	03/16/99	1500	144666 1

M = Method

Method-Description

M 1

EPA 418.1 Modified

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Valerie Davis at (843) 769-7391.

Reviewed By

Janet A. Lewis



Form 1: Inorganic Analyses Data Sheet

SDG No.: FSA09S

Method Type: Total Metals

Sample ID: 9902838-10

Client ID: 970111

Contract: SAIC00299

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 2/22/99

Level: LOW

% Solids: 90.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	2.7	mg/kg			P	0.15	TJA61 Trace ICPAES	990308-1

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

970112

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: PSA10W

Matrix: (soil/water) WATER Lab Sample ID: 9902839-02

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 8Y515

Level: (low/med) LOW Date Received: 02/22/99

% Moisture: not dec. _____ Date Analyzed: 03/05/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
71-43-2-----	benzene	2.0	U	5 ↓
108-88-3-----	toluene	0.82	J	
100-41-4-----	ethylbenzene	0.37	J	
1330-20-7-----	xylene (total)	1.9	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

970112

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FSA10W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9902839-02

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: 7I710

Level: (low/med) LOW Date Received: 02/22/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 02/24/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 02/28/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
91-20-3	-----naphthalene	105	U	U ↓ J
91-58-7	-----2-chloronaphthalene	105	U	
208-96-8	-----acenaphthylene	105	U	
83-32-9	-----acenaphthene	105	U	
86-73-7	-----fluorene	105	U	
85-01-8	-----phenanthrene	105	U	
120-12-7	-----anthracene	105	U	
206-44-0	-----fluoranthene	105	U	
129-00-0	-----pyrene	105	U	
56-55-3	-----benzo (a) anthracene	105	U	
218-01-9	-----chrysene	105	U	
205-99-2	-----benzo (b) fluoranthene	105	U	
207-08-9	-----benzo (k) fluoranthene	105	U	
50-32-8	-----benzo (a) pyrene	105	U	
193-39-5	-----indeno (1,2,3-cd) pyrene	105	U	
53-70-3	-----dibenz (a,h) anthracene	105	U	
191-24-2	-----benzo (g,h,i) perylene	8.1	J	



800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600
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Science Applications International Corporation

CHAIN OF CUSTODY RECORD

COC NO.: D03512

PROJECT NAME: Fort Stewart CAP Part A UST Investigations				REQUESTED PARAMETERS												LABORATORY NAME: General Engineering Laboratory	
PROJECT NUMBER: 01-0331-04-1593-220				No. of Bottles/Vials: 2												LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29417	
PROJECT MANAGER: Patty Stoll				PAH, DRO, Lead, TOC												PHONE NO: (803) 556 8171	
Sampler (Signature): <i>Laura Lunsley</i>				PAH, DRO, Lead												OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS:	
Date/Time: 2/21/99				PAH, TPH, Lead												9902838 -01	
Sample ID: 040311				PAH, TPH												-02	
Data Collected: 2/21/99				GRO												-03	
Time Collected: 1545				BTEX												-04	
Matrix: Soil				TOTAL NUMBER OF CONTAINERS: 1												-05	
2/21/99				Cooler ID: #2444/140												-06	
2/21/99				Cooler Temperature: 1530												-07	
2/21/99				Date/Time: 2/22/99												-08	
2/21/99				Date/Time: 2/22/99												-09	
2/21/99				Date/Time: 2/22/99												-10	
2/21/99				Date/Time: 2/22/99												-11	
2/21/99				Date/Time: 2/22/99												-12	
2/21/99				Date/Time: 2/22/99												-13	
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