

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

CLOSURE REPORT

WASTE OIL TANK
BUILDING1328, TANK 94
FACILITY ID NUMBER: 9-089076
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

NOVEMBER 1996

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

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Prepared by

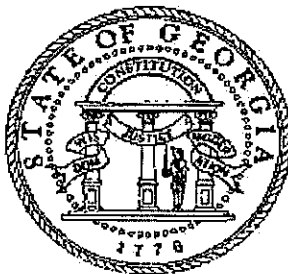
Anderson Columbia Enviornmental, Inc.

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 1328
Street Address: FAC 1328
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089076

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: 11/11/96

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

☒ Not Applicable

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

REFER TO TAB 5

- Tank Pit Area
- Sewer Lines (if present)
- Sample Locations (with sample numbers and depths)
- Scale: See Tab 5
- 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: 29-Jul-96

Tank #	Tank Size (gallons)	Tank Contents
94	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 No release

9. Excavation and Treatment/Disposal of Contaminated Soil:

- Attach Soil Disposal Manifests
- Volume of Soil Excavated (less than 6 ft from USTs and 4 ft from piping or dispenser islands)
_____ Tons OR _____ yd³

☒ Not Applicable

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

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

OR

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

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

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

☒ Not Applicable

SEE TAB 7, 10

11. Conclusions or Recommendations: Choose one.

☒ Clean Closure, thus No Further Action is Required.

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

TAB 4

SITE PHOTOGRAPHS

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Photo 1. Photograph of the excavation pit prior to tank removal.

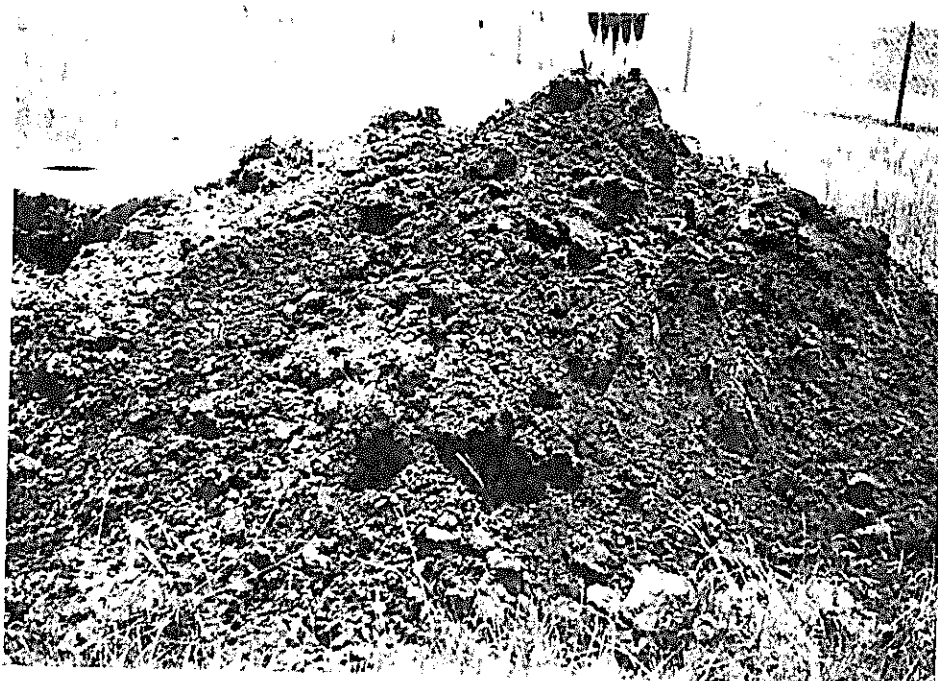


Photo 2. Soil excavated from the pit, stockpiled and used for backfill.

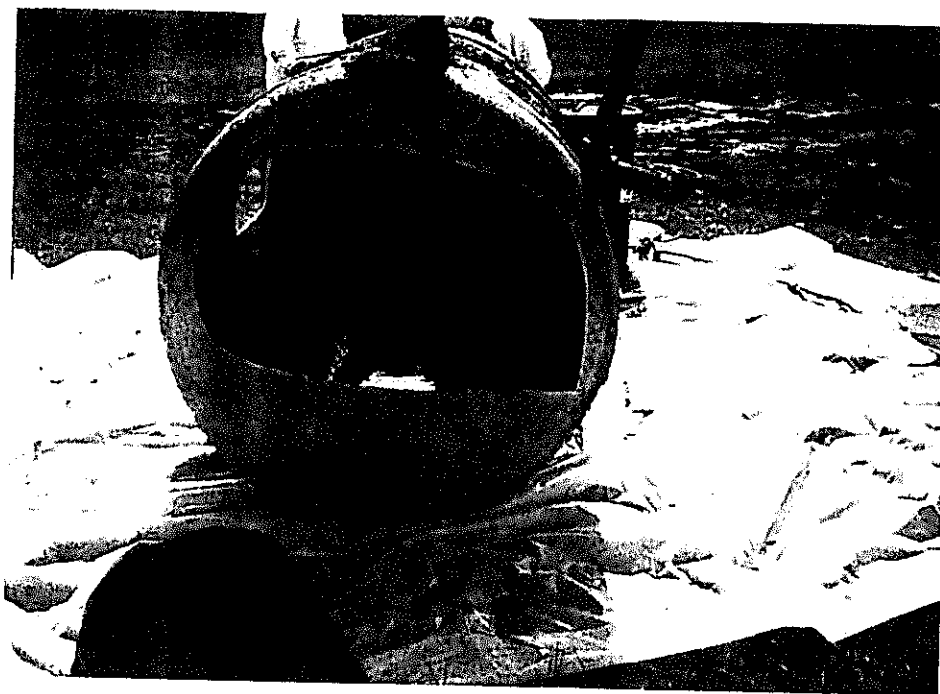


Photo 3. Tank after cutting, prior to disposal.

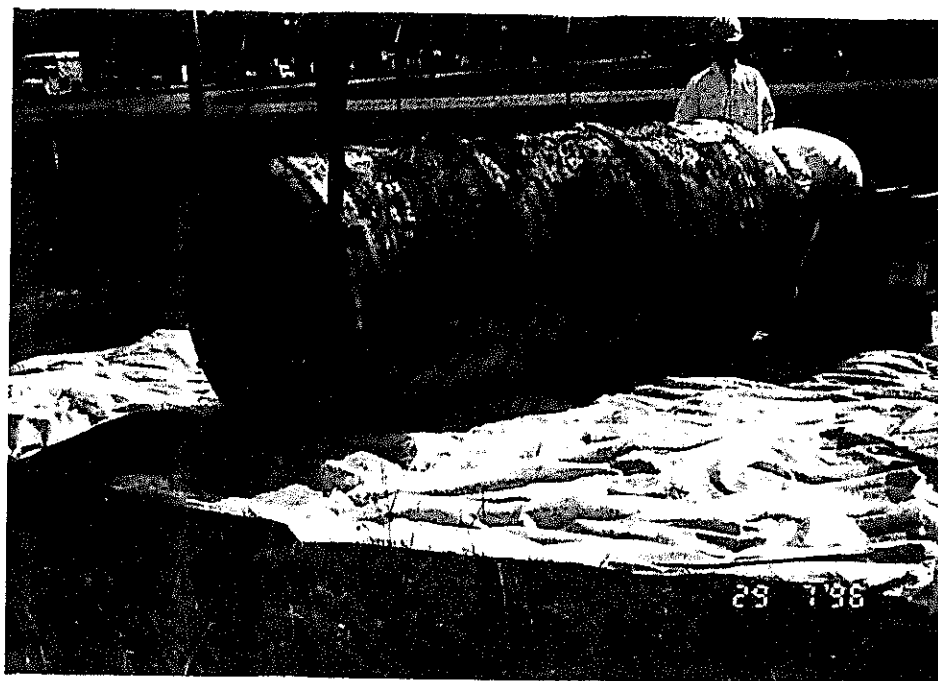


Photo 4. Tank during the cleaning process, prior to disposal.

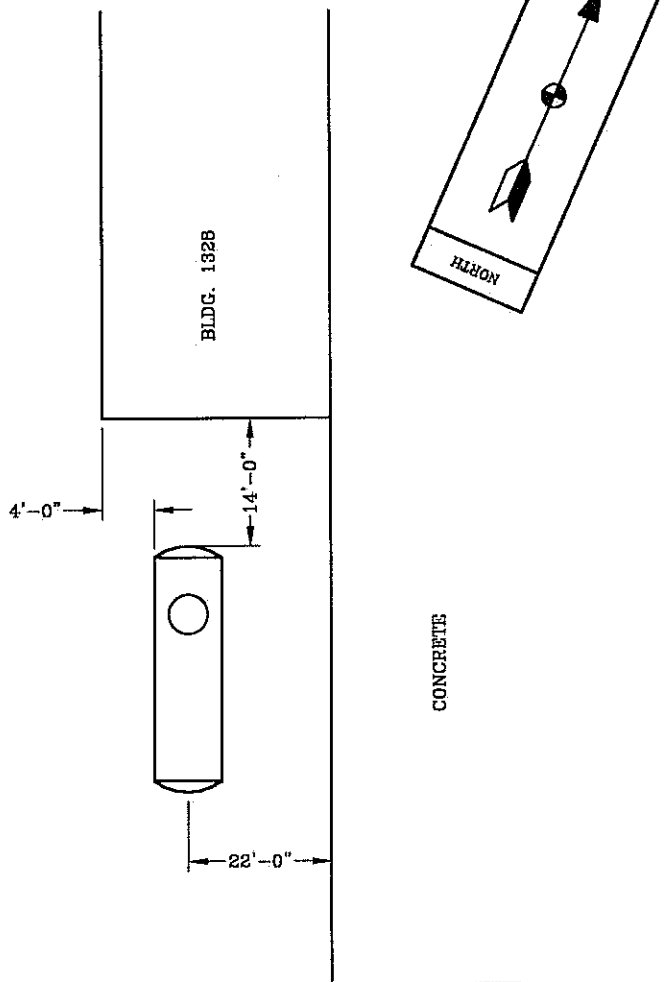
TAB 5

SITE MAPS

Instrument: _____ Serial #: _____
 Source: _____ Temp: _____
 PID Correlation: 60 ppm

[illegible]

Diagram illustrating a grass slab system. The system consists of a grass layer on the left, a vertical support post in the middle, and a horizontal slab on the right. The support post is labeled "FIBERGLASS" and has a dimension line indicating its height as "2' 0" - 0"'. The slab is labeled "SLAB".



TANK DIMENSIONS: 10'-6" X 4'

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

DR. N.A.M. CH'D _____ DR. APP. _____
ENGR. _____ ENGR.'S DEPT. _____
DATE 11-6-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA

LOCATION: BLDG. 132B

TANK 94 1,000 GAL. WASTE OIL

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

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STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

state use only

FACILITY ID NUMBER: 9-089076

OWNER'S ID: 197

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST: _____

NOTIFICATION TYPE: ☐ New ☒ Amended ☒ Closure

OWNERSHIP OF TANK (S): _____ NUMBER OF TANK (S): 1

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

LOCATION OF TANK (S):

Name : FT STEWART/FAC 1328
Street Address : FAC 1328
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

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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

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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

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STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089076									
TANK ID	94									
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	7-22-96	7-22-96								
Est. Date Closed	7-29-96	7-29-96								
Removed from Ground	Y	Y								
Closed in Ground		Y								
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 Gauging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Gauging										
Vapor Monitoring										
Inter. Mon./Sec. Cont.										
Auto. Line Leak Detect.										
Line Tightness Testing										
Other Method										
Other Description										
Spill and Overfill										
Date Overfill Device										
Date Spill Device										
Installer Certification										
Name										
Position										
Company										
Date										

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

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FACILITY ID	9-089076				
TANK ID	94				
Status of Tank					
Currently in Use	☒				
Temp. Out of Use					
Perm. Out of Use	☒				
Date of Installation	01-01-1980				
Age	16				
Est. Total Capacity	1000				
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	☒				
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Explanation					
Date Tank Repaired					
PIPING MATERIAL					
Bare Steel					
Galvanized Steel	☒				
Fiberglass					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, Explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	☒				
Propane					
Empty					
Other, Explanation					

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

Petroleum Constituents and Soil Threshold Levels^a

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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

^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 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

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Petroleum Constituents and Soil Threshold^a Levels

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

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

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

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

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

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

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

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

TRANSMITTAL OF SAD LABORATORY REPORT(S)

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

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

PROJECT: Ft. Stewart

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

SUBJECT: Analytical Testing Results

1. Enclosed is our report of analytical test results and chain of custody forms for samples collected on 29 July 1996 from Ft. Stewart.

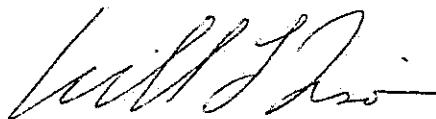
. If you have any questions, please call Mr. Blaise Willis at 770-919-5295 or me at 770-919-3990.

SUBMITTED BY:

SIGNATURE

DATE:

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



25 Aug 1996

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

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District - SAVANNAH

Date Received - 96/07/31

Date Reported - 96/08/20 10:40:32

FT. STEWART ARMY AF

Requisition - PMS-96-109

Work Order - 7996 Job Number - 4040

Lab # Field ID

29645 8101-TK94C-S1

Date Sampled Time Sampled

96/07/29 13:00

Test Performed	Result	Units	Tested By	Test Date
-----	-----	-----	-----	-----
TOTAL SOLIDS, % OF WET	95.30	%	ECO	96/08/01
AROMATIC VOLATILE ORGANICS	*		ECO	96/08/08
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/02
TRPH	26.0	MG/KG	ECO	96/08/08

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Page 1 of 2

Lab # Field ID

246 8101-TK94-S1

Date Sampled

96/07/29

Time Sampled

15:00

Test Performed

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

Result

Units

88.40

%

*

*

< 5.7

MG/KG

Tested
By

Test
Date

ECO

ECO

ECO

ECO

96/08/01

96/08/08

96/08/02

96/08/08

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Page 2 of 2

ECOSYS

LABORATORY SERVICES

ANALYTICAL REPORT

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

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

Client Code 29112130
Ledger Number 108032
P.O. Number
Date Received 08/01/96
Time Received 10:31
Reporting Date 08/19/96

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Lab Sample ID AB36628
Project # 4040
Project Name FT. STEWART
Sampling Date/Time 07/29/96 13:00

Client Site # 29645
Client Sample # 8101-TK94C-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 08/02/96

Batch 0802960008

8270B	PHENOL	\$06013	Below MDL	346	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	346	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	346	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	346	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	346	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	346	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	346	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	346	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	346	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	346	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	693	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	346	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	346	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	346	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	346	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	346	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	693	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	346	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	346	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	346	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	346	ug/Kg	1.0	91-58-7	GC	08/02/96

Lab Sample ID AB36628
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time 07/29/96 13:00

Client Site # 29645
 Client Sample # 8101-TK94C-S1

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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 08/02/96

Batch 0802960008

8270B	2-NITROANILINE	\$06013	Below MDL	346	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	346	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	346	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	346	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	346	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	346	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1731	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1731	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	346	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	346	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	346	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	346	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	346	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	346	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1731	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	346	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	346	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	346	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1731	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	346	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	346	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	346	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	346	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	346	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	346	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	693	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	346	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	346	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	346	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	346	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	346	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	346	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	346	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	346	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	346	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	346	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	51	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	51	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	52	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	74	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	66	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	346	ug/Kg	1.0	86-74-8	GC	08/02/96

BTEX (GC) SOIL

Prep Date 08/08/96

Batch 080896BW

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TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 94
Building Number 1328

<i>Method</i> Sample ID <i>unit</i>	9073 TRPH ppm	418.1 TPH ppm	8020 BTEX ppb	8270B Semi-Volatile Organics ppb
8101-TK94-S1		bdl	bdl	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is within 500 feet from a withdrawal point. Comparisons need not be made to Table A because the analytical data do not reveal any contamination in the immediate vicinity of the excavation pit.

Complete Data Package Follows

Lab Sample ID AB36628
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time 07/29/96 13:00

Client Site # 29645
 Client Sample # 8101-TK94C-S1

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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 08/08/96

Batch 080896BW

8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	65	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	68	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/08/96

Prep Date 08/08/96

Batch 080896

418.1	TPH (FTIR) SOIL	08008	26	5.2	mg/Kg	1.0		JK	08/08/96
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Prep Date 08/02/96

Batch 0802960005

160.3	% TOTAL SOLIDS SOIL (N/C)	09099	95.3	0.1	%	1.0		MN	08/01/96
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Lab Sample ID AB36629
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time 07/29/96 15:00

Client Site # 29646
 Client Sample # 8101-TK94-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 08/02/96

Batch 0802960008

8270B	PHENOL	\$06013	Below MDL	373	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	373	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	373	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	373	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	373	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	373	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	747	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	373	ug/Kg	1.0	111-91-1	GC	08/02/96

Lab Sample ID AB36629
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time 07/29/96 15:00

Client Site # 29646
 Client Sample # 8101-TK94-S1

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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 08/02/96

Batch 0802960008

8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	373	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	373	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	747	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	373	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	373	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	373	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	373	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	373	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	373	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	373	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	373	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	373	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	373	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	373	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	373	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	373	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	373	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	373	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	373	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	747	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	373	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	373	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	373	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	373	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	373	ug/Kg	1.0	50-32-8	GC	08/02/96

Lab Sample ID AB36629
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time 07/29/96 15:00

Client Site # 29646
 Client Sample # 8101-TK94-S1

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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 08/02/96			Batch 0802960008		
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	373	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	373	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	373	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	41	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	41	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	40	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	59	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	66	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	82	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	373	ug/Kg	1.0	86-74-8	GC	08/02/96
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.1	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	94	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	87	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.1	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	08008	Below MDL	5.7	mg/Kg	1.0		JK	08/08/96
				Prep Date 08/02/96			Batch 0802960005		
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	88.4	0.1	%	1.0		MN	08/01/96

Lab Sample ID AB36630
 Project # 4040
 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 08/02/96			Batch 0802960008		
8270B	PHENOL	\$06013	Below MDL	330	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	95-50-1	GC	08/02/96

Lab Sample ID AB36630
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # SOIL METHOD BLANK

61

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96			Batch 0802960008		
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	660	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	330	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	330	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	72	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	63	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	74	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	81	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	73	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	97	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	330	ug/Kg	1.0	86-74-8	GC	08/02/96
B (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	90	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	99	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	\$08008	Below MDL	5.0	mg/Kg	1.0		JK	08/08/96

Lab Sample ID AB36630
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # SOIL METHOD BLANK

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METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96		Batch 0802960008			
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	330	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	330	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	330	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	87-58-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	330	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	330	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	330	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	330	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	330	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	129-00-0	GC	08/02/96

Lab Sample ID AB36700
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MS

65

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

Lab Sample ID AB36701
 Project # 4040
 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 08/02/96			Batch 0802960001		
8270B	2-FLUOROPHENOL (SURR)	\$06013	49	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	44	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	39	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	62	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	70	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36702
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # LCS

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

Lab Sample ID AB37090
Project # 4040
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # LCS

67

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	91	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	105	%	REC	1.0	460-00-4	DTA	08/08/96

Lab Sample ID AB37091
Project # 4040
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	61	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	66	%	REC	1.0	460-00-4	DTA	08/08/96

Lab Sample ID AB37092
Project # 4040
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	64	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	65	%	REC	1.0	460-00-4	DTA	08/08/96


Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

NC-DEHNR 441, SC-DHEC 98013, GA, TN-DOH 02826, UT-DOH 6-228, 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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SADD Labs

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

Page 1 of 1
Doc# 7796

Q10. # 7396

[illegible]

[illegible]

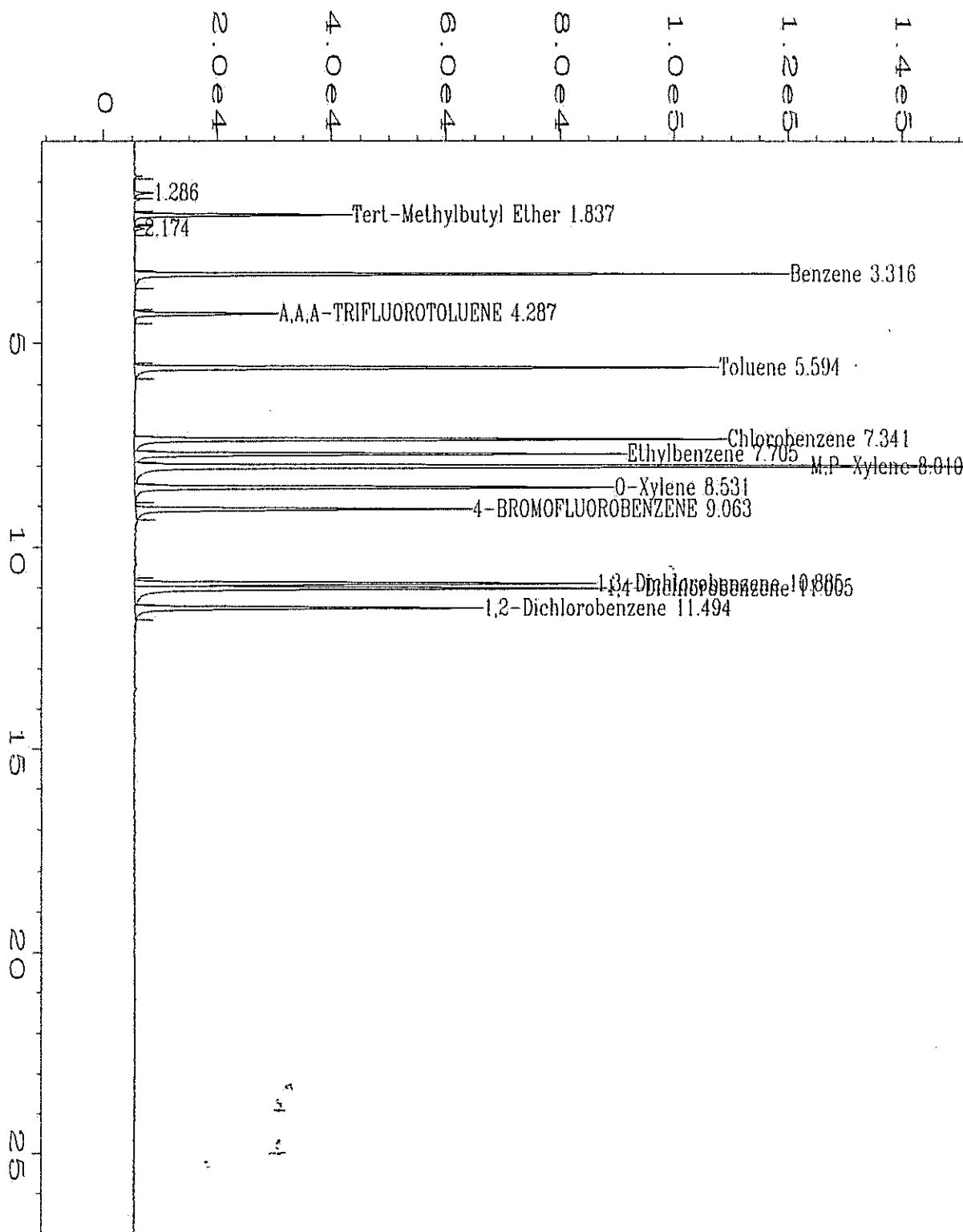
External Standard Report

Data File Name : C:\HPCHEM\2\DATA\b080896\60808F10.D
 Operator : Doug Anderson
 Instrument : GC6
 Sample Name : 20ppb 8020 ccv
 Run Time Bar Code:
 Acquired on : 08 Aug 96 03:45 PM
 Report Created on: 08 Aug 96 04:12 PM
 Last Recalib on : 02 AUG 96 08:16 AM
 Multiplier : 1
 Sample Info : 16ppb surr

Page Number : 1
 Vial Number : 10
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: 6B080196.MTH
 Analysis Method : 6B080196.MTH
 Sample Amount : 0
 ISTD Amount :

Sig. 1 in C:\HPCHEM\2\DATA\b080896\60808F10.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.837	128972	VV	0.053	1	21.237	Tert-Methylbutyl Ether
3.316	387917	PV	0.053	1	21.043	Benzene
4.287	98866	PB	0.061	1	15.670	A,A,A-TRIFLUOROTOLUENE
5.594	373323	PV	0.057	1	20.851	Toluene
7.341	385532	PV	0.058	1	21.088	Chlorobenzene
7.705	334716	VV	0.060	1	20.908	Ethylbenzene
8.010	796275	VV	0.064	1	35.977	M,P-Xylene
8.531	327803	VV	0.061	1	21.364	O-Xylene
9.063	229575	PV	0.060	1	16.783	4-BROMOFLUOROBENZENE
10.885	309938	BV	0.060	1	20.427	1,3-Dichlorobenzene
11.005	360978	VV	0.066	1	22.204	1,4-Dichlorobenzene
11.494	249630	VV	0.063	1	21.199	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\2\DATA\b080896\60808F10.D	Page Number	: 1
Operator	: Doug Anderson	Vial Number	: 10
Instrument	: GC6	Injection Number	: 1
Sample Name	: 20ppb 8020 ccv	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 6B080196.MTH
Acquired on	: 08 Aug 96 03:45 PM	Analysis Method	: 6B080196.MTH
Report Created on	: 08 Aug 96 04:12 PM	Sample Amount	: 0
Last Recalib on	: 02 AUG 96 08:16 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: 16ppb surr		

BTEX Method Blank Summary

77

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 108032	
Batch No: 080896BW	Date Analyzed: 8/8/96
Lab File ID: 60808F11	Time Analyzed: 16:18
Lab Sample ID: AB36630	Level: Low
Instrument ID: GC6	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	AB37090 LCS	60808F12	8/8/96
2	NA	AB37091 MS	60808F13	8/8/96
3	NA	AB37092 MSD	60808F14	8/8/96
4	8101-TK94C-S1	AB36628	60808F15	8/8/96
5	8101-TK94-S1	AB36629	60808F16	8/8/96
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable



QA/QC Officer

Comments:

Soil BTEX MS/MSD Recovery

79

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No: 108032	Matrix Spike/Lab Sample No: AB36628 REF
Batch No: 080896BW	AB37091 MS
Lab File ID: 60808F13/60808F14	AB37092 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	15	75		40-160
Toluene	20	ND	15	74		40-160
Ethylbenzene	20	ND	14	70		40-160
m,p-Xylene	40	ND	24	61		40-160
o-Xylene	20	ND	14	71		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits	
Benzene	20	15	74		2		RPD	Recovery
Toluene	20	14	71		4		30	40-160
Ethylbenzene	20	13	67		4		30	40-160
m,p-Xylene	40	23	58		4		30	40-160
o-Xylene	20	14	70		2		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: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Robert Lee

QA/QC Officer

Comments: _____

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

Page 2

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: SV	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	Q
5074-71-5-----dftpp		0.0	
=====			

BTEX LCS Recoveries (Soil)

83

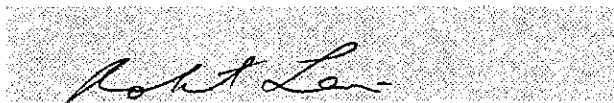
Lab Name: EcoSys, Inc.
Ledger No: 108032
Batch No: 080896BW
Lab File ID: 60808F12

Client: ACE-SAD
Laboratory Control Sample No: AB37090
Level (Low/Med): Low
Matrix: Soil

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits
					Recovery
Benzene	20	22	112		40-160
Toluene	20	23	113		40-160
Ethylbenzene	20	23	114		40-160
m,p-Xylene	40	39	97		40-160
o-Xylene	20	24	118		40-160

* Values outside of QC limits
ND = Not Detected

Spike Recovery: 0 out of 5 outside limits



QA/QC Officer

Comments:

85

1

4

Robert Lee

1. *What is the purpose of this study?*
 2. *What are the research objectives?*
 3. *What is the research methodology?*
 4. *What are the findings of the study?*
 5. *What are the conclusions of the study?*
 6. *What are the implications of the study?*
 7. *What are the limitations of the study?*
 8. *What are the future research directions?*
 9. *What are the contributions of the study?*
 10. *What are the key words of the study?*

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 108032DFTPP Injection Date: 7/26/96Lab File ID: DFTPP072696DFTPP Injection Time: 7:04Instrument ID: MSD-3Batch Number: 0802960008

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

1-Value is % mass 69

2-Value is % mass 442

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

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

NA: Not Applicable

Comments:

QA/QC OFFICER

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

EcoSys, Inc.

Data file : /chem/msd3.i/3-072696.b/dftpp072696.d
 Lab. Id. : DFTPP02
 Inj Date : 26-JUL-96 07:04 Autotune Date: 26-Jul-96 07:03:3
 Operator : BINA Inst ID: msd3.i
 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 : Cal File:
 Als bottle: 1 QC Sample: DFTPP
 Dil Factor: 1.000 Target Version: Target 2.20
 Integrator: HP RTE Compound Sublist: all.sub
 Sample Type: WATER

		CONCENTRATIONS			
		ON-COL	FINAL		
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO
+ 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

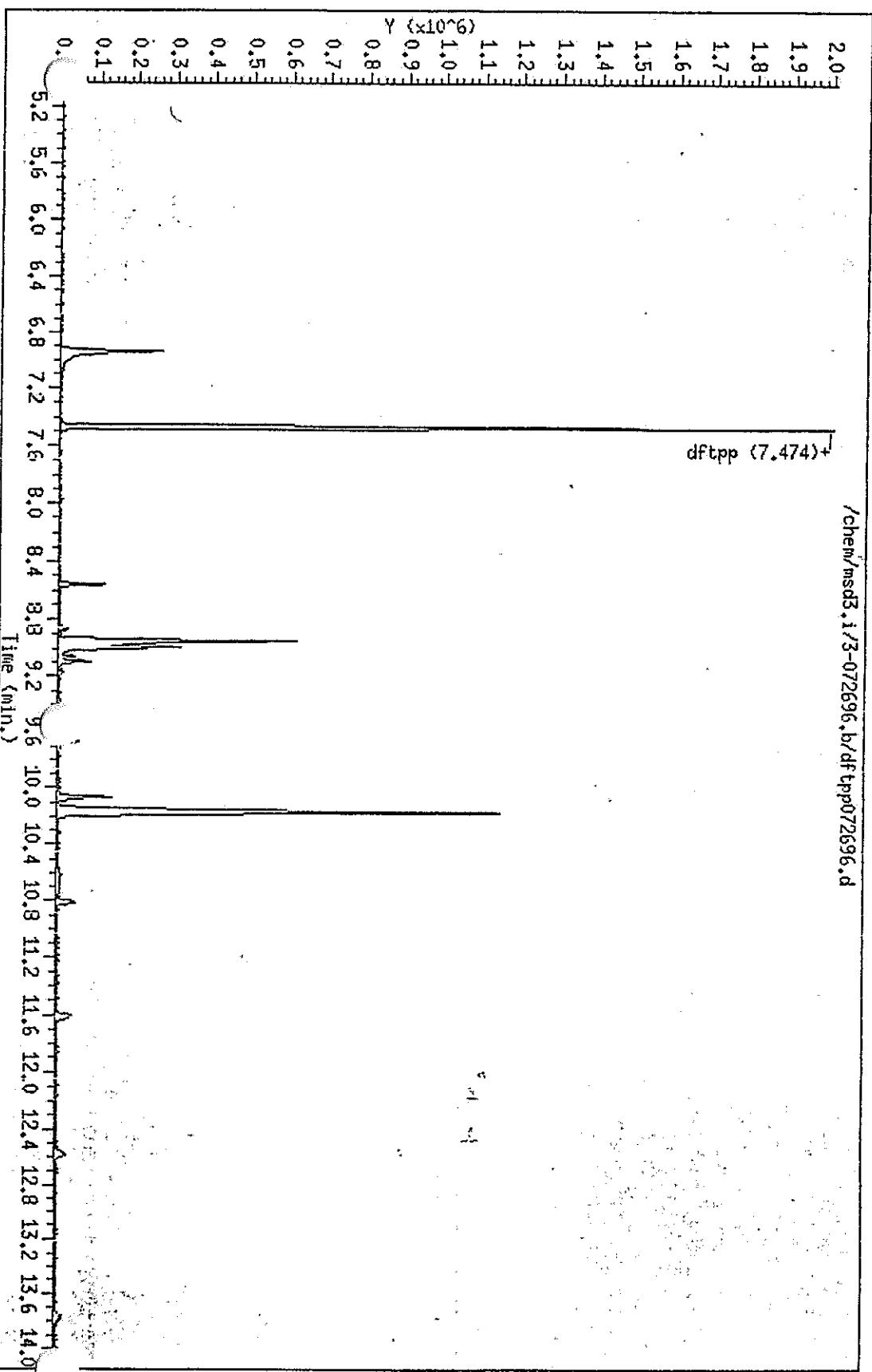
QC Flag Legend
 Q - Qualifier signal failed the ratio test.

61

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

Column diameter: 2.00

Page 3



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Data File: /chem/msd3.1/3-072696.b/dftpp072696.d

Page 4

: 26-JUL-96 07:04

Instrument : msd3.1

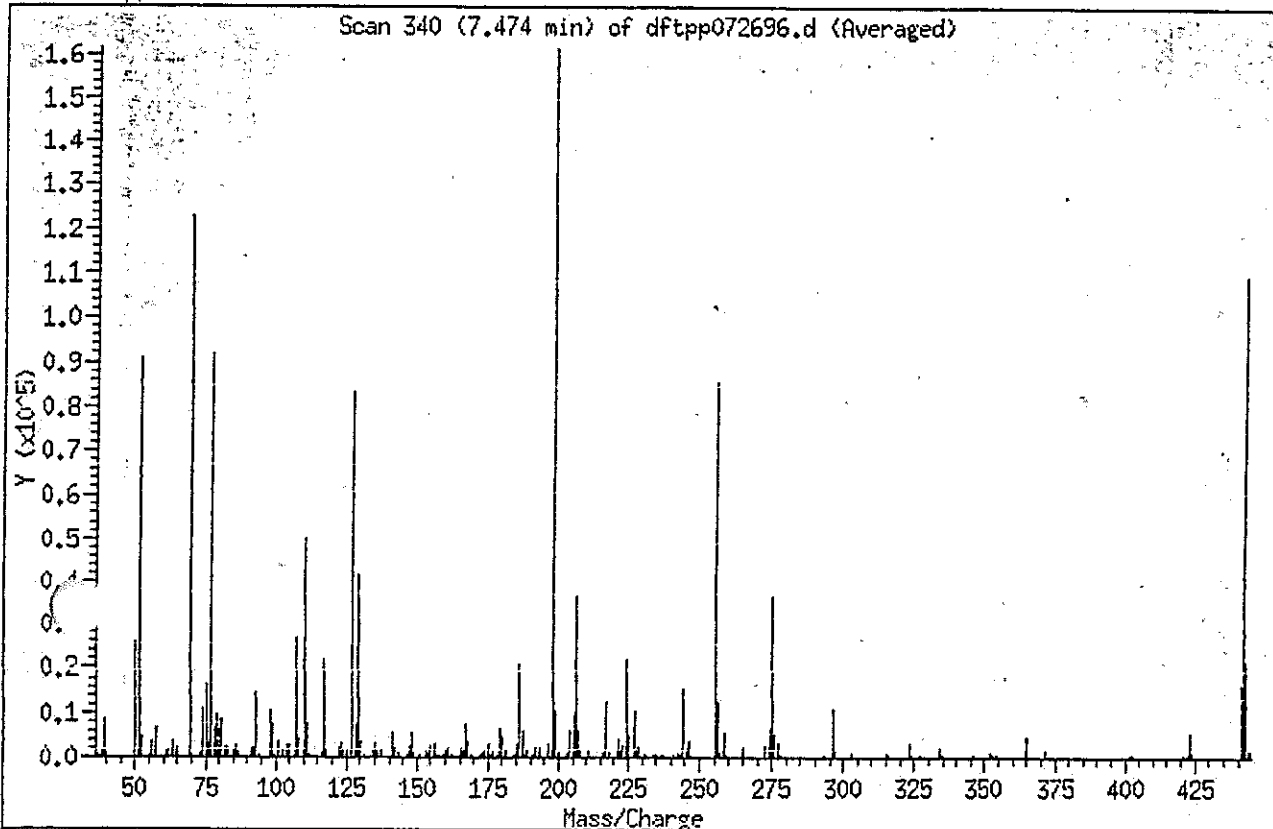
Sample ID : DFTPP02

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	56.1
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	76.2
70	Mass 70 relative abundance	0.2
127	Mass 127 relative abundance	51.8
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.4
275	Mass 275 relative abundance	22.7
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	77.3
442	Mass 442 relative abundance	67.4
443	Mass 443 relative abundance	19.4

021

Date : 26-JUL-96 07:04

Instrument : msd3.i

Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

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

Base Peak: 198.00

Number of mass peaks: 176

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	294	116.00	1147	178.00	581	247.00	294
38.00	1594	117.00	21592	179.00	6531	255.00	85365
39.00	8236	118.00	1435	180.00	4582	256.00	12547
50.00	25791	122.00	2205	181.00	1703	257.00	1144
51.00	90538	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	2098	278.00	534
69.00	122946	135.00	3185	196.00	2959	293.00	551
70.00	298	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	1303	422.00	341

97

Data File: /chem/msd3.1/3-072696.b/dftpp072696.d

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Date: 26-JUL-96 07:04

Instrument: msd3.1

Sample ID: DFTPP02

Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

Spectrum: Scan 340-342 (7.474 min) Subtraction Scan 336
Base Peak: 198.00

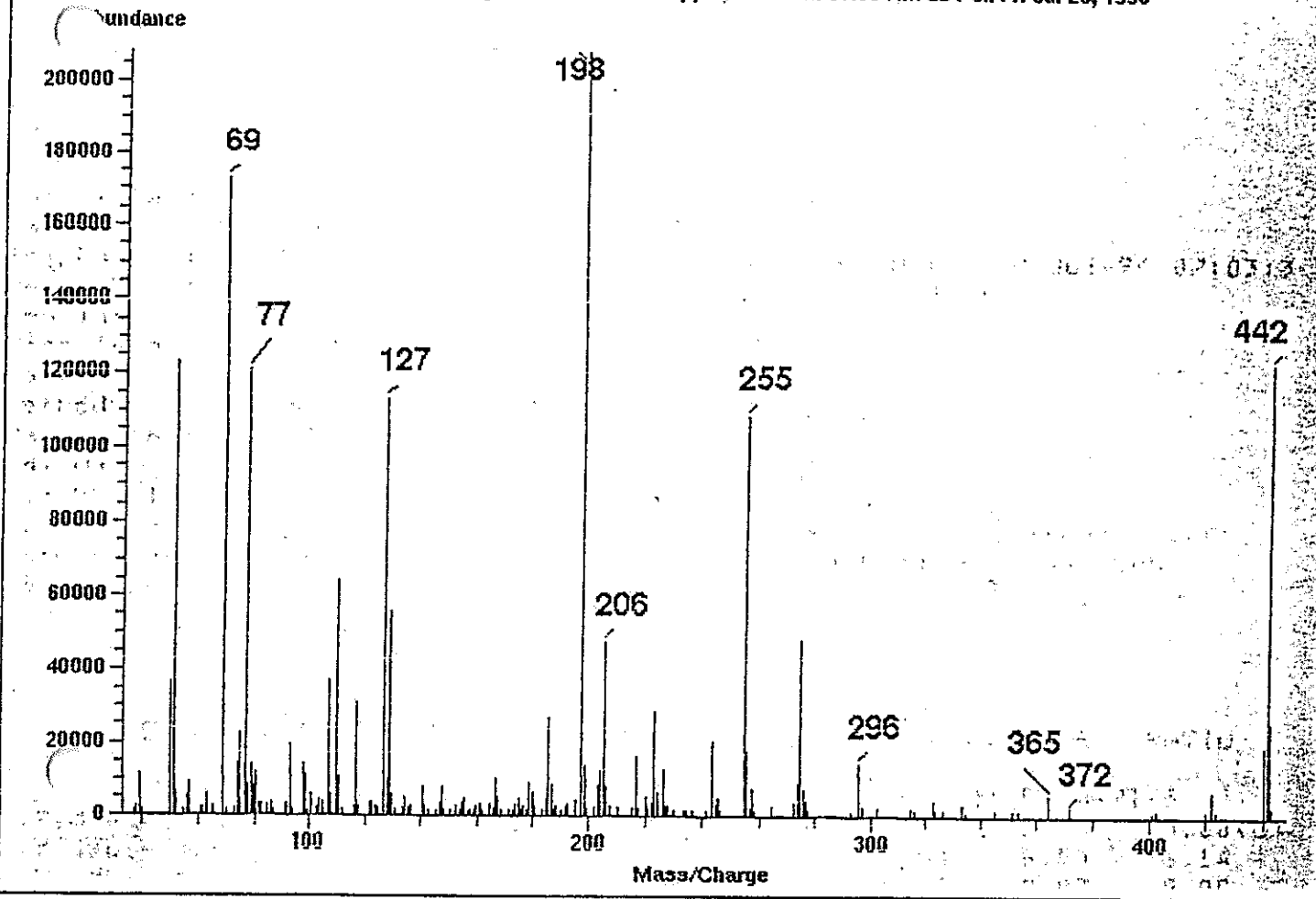
Number of mass peaks: 176

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

000

99

Scan 341 (7.474 min) of dftpp072696.d
msd3 (ms5971-3); /chem/config/dvc/ms5971-3/dftpp.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	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

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Report Date : 16-Aug-1996 11:16

Page 1

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/072696.b/MA-BNA_2.m
 Cal Date : 16-Aug-1996 10:34 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 Chloro-3-methylphenol **	0.420071	0.450281	0.427991	0.428031	0.395021	0.424281	4.6811
31 Methyl-naphthalene	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	0.417001	0.393181	0.394961	4.5801

025

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Report Date : 16-Aug-1996 11:16

Page 2

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/072696.b/MA-BNA_2.m
 Cal Date : 16-Aug-1996 10:34 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
36 2-Chloronaphthalene	1.16197	1.08857	1.07025	1.02127	1.03698	1.07581	5.112
37 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	0.06641	0.06980	0.06242	0.05521	0.06284	8.921
46 2,4-Dinitrotoluene	0.38945	0.43173	0.42783	0.44737	0.39980	0.41924	5.783
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 n-butyl phthalate	1.89432	1.70663	1.68191	1.67638	1.43689	1.67923	9.683
64 fluoranthene **	0.99623	1.01020	1.01715	1.00868	0.93752	0.99395	3.264
65 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

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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/072696.b/MA-BNA_2.m
 Cal Date : 16-Aug-1996 10:34 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
69 2,3'-Dichlorobenzidine	0.25785	0.18576	0.25785	0.38889	0.25787	0.26965	27.299
70 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

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc.Client: ACE-SADLedger No: 108032DFTPP Injection Date: 8/2/96Lab File ID: DFTPP080296DFTPP Injection Time: 14:49Instrument ID: MSD-3Batch Number: 0802960008

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m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	68.2 (1)
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	49.4
197	Less than 1.0% of mass 198	0.0 (1)
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	69.9
442	Greater than 40% of mass 198	68.4
443	17.0 - 23.0% of mass 442	21.3 (2)

1-Value is % mass 69

2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	01 NA	CCV	BNA0101001	08/02/96	3:11 PM
	02 NA	AB36630 MB	BNA0201002	08/02/96	4:01 PM
	03 NA	AB36702 LCS	BNA0301003	08/02/96	4:51 PM
	04 NA	AB36700 MS	BNA0801008	08/02/96	9:13 PM
	05 NA	AB36701 MSD	BNA0901009	08/02/96	10:03 PM
	06 8101-TK94C-S1	AB36628	BNA0701007	08/02/96	8:19 PM
	07 8101-TK94-S1	AB36629	BNA1001010	08/02/96	10:55 PM
	08				

NA: Not Applicable

Comments:

QA/QC OFFICER

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EcoSys, Inc.

Data file : /chem/msd3.i/3-080296.b/DFTPP080296.d
Lab. Id. : DFTPP02
Inj Date : 02-AUG-96 14:49 Autotune Date: 29-Jul-96 08:01:1
Operator : GORDON Inst ID: msd3.i
Smp Info : 50ng OF DFT-05-(39)
Misc Info : INSTRUMENT TUNE FOR msd3.i
Comment :
Method : /chem/msd3.i/3-080296.b/dftpp288.m
Meth Date : 02-Aug-1996 06:44
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

		CONCENTRATIONS					
		ON-COL	FINAL				
RT (REL RT)	MASS	RESPONSE (ug/L)	(ug/L)	TARGET	RANGE	RATIO	
dftpp				CAS #: 5074-71-5			
7.473(0.000)	198	95029				100.00(Q)	
7.473(0.000)	51	51728		0.00-	0.00	54.43	
7.473(0.000)	68	0		0.00-	0.00	0.00	
7.473(0.000)	69	68466		0.00-	0.00	72.05	
7.473(0.000)	70	0		0.00-	0.00	0.00	
7.473(0.000)	127	48605		0.00-	0.00	51.15	
7.473(0.000)	197	0		0.00-	0.00	0.00	
7.473(0.000)	199	5906		0.00-	0.00	6.21	
7.473(0.000)	275	21696		0.00-	0.00	22.83	
7.473(0.000)	365	2478		0.00-	0.00	2.61	
7.473(0.000)	441	9919		0.00-	0.00	73.90	
7.473(0.000)	442	65272		0.00-	0.00	68.69	
7.473(0.000)	443	13423		0.00-	0.00	20.56	

QC Flag Legend

1 - Qualifier signal failed the ratio test.

EcoSys, Inc.

TARGET COMPOUNDS

Client Name:	Client SDG: 3-080296.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 msd3.1	

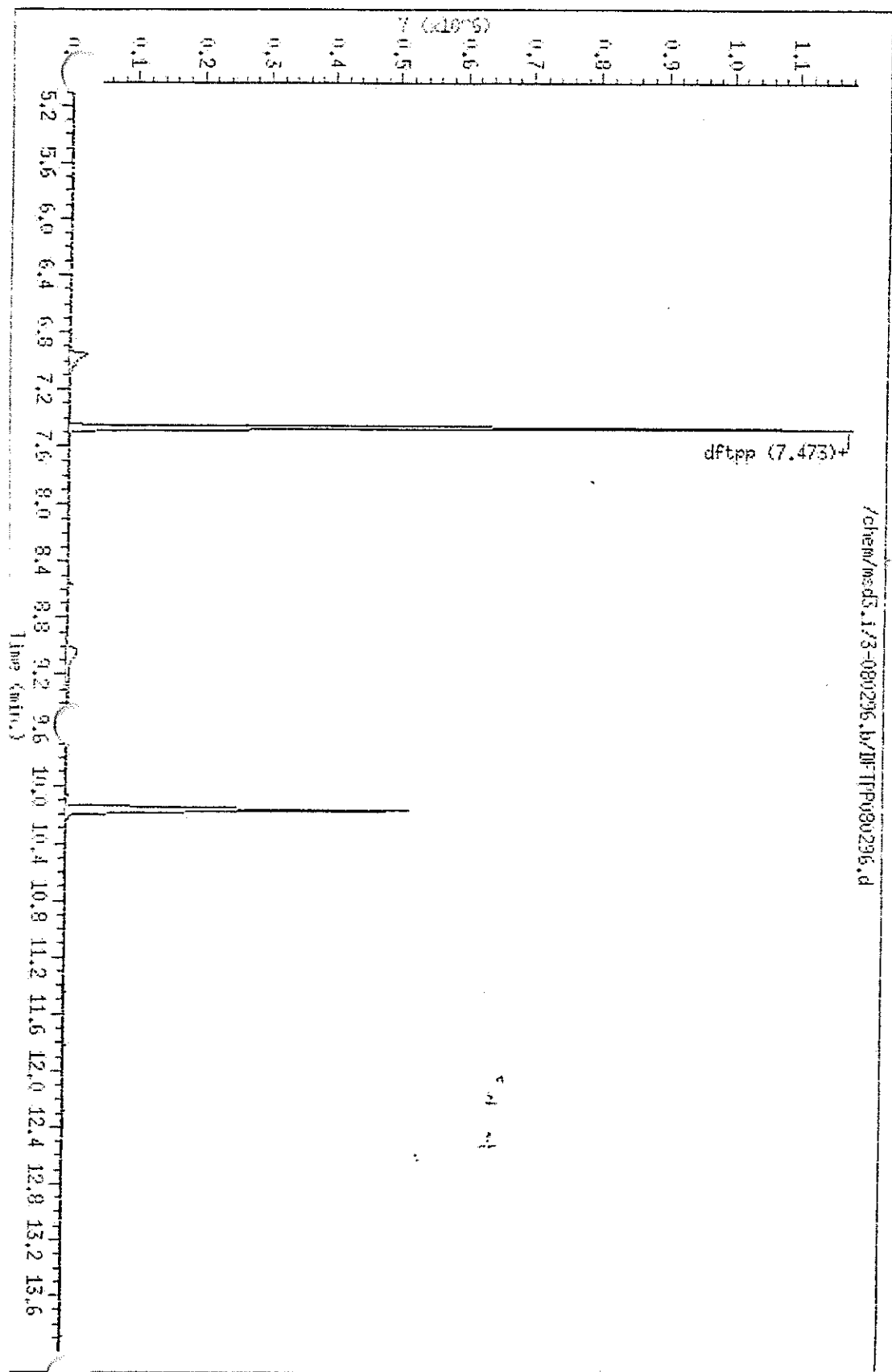
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG)	ug/L
5074-71-5-----dftpp		0.0	
=====		=====	=====

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Data File: /chem/msd3.1/3-080296.b/DFTFP080296.d
Date : 02-JUL-96 14:49
Instrument : msd3.i
Sample ID : DFTFP02
Column phase :
Volume Injected (ul) : 1.0

Column diameter : 2.00

Page 3



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Data File: /chem/msd3.1/3-080296.b/DFTPP080296.d

Page 4

Date: 02-AUG-96 14:49

Instrument: msd3.1

Sample ID: DFTPP02

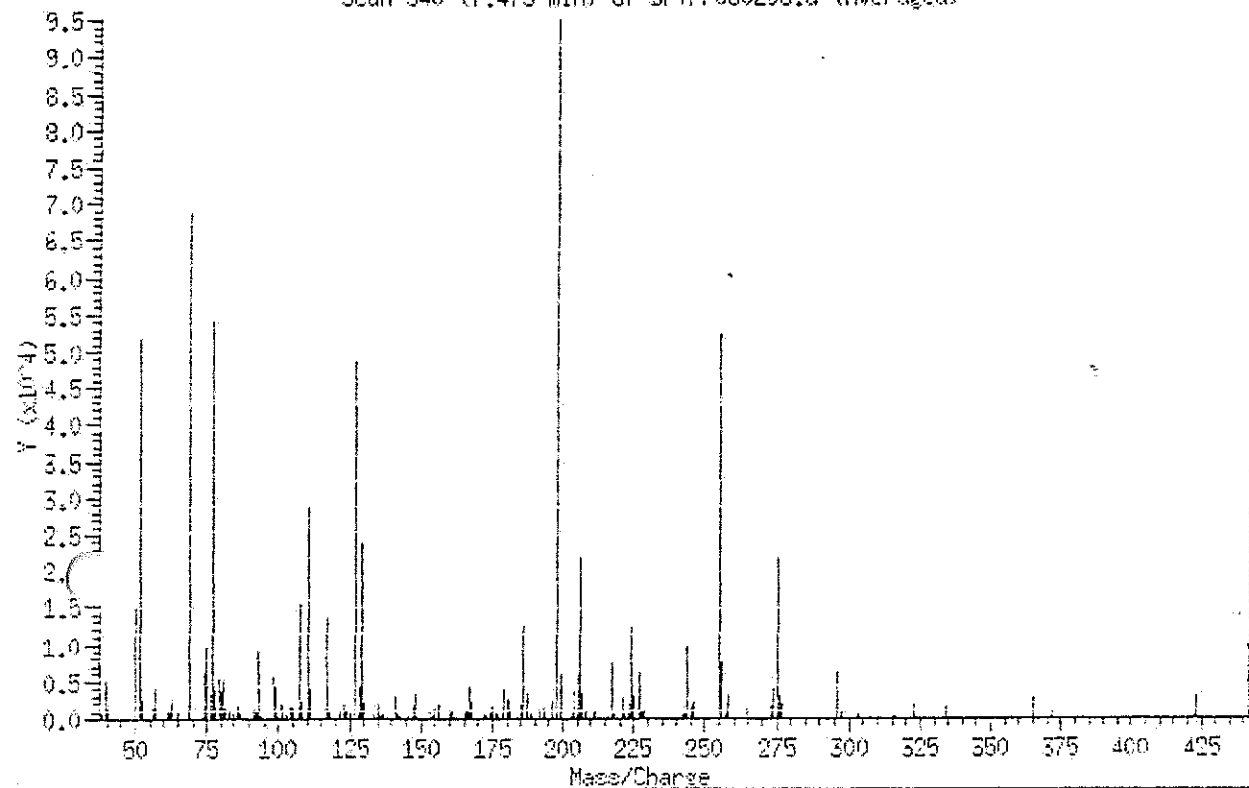
Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

1 dftpp

Scan 340 (7.475 min) of DFTPP080296.d (Averaged)



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	54.4
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	72.0
70	Mass 70 relative abundance	0.0
127	Mass 127 relative abundance	51.1
137	Mass 137 relative abundance	0.0
199	Mass 199 relative abundance	6.2
275	Mass 275 relative abundance	22.8
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	73.9
442	Mass 442 relative abundance	68.7
443	Mass 443 relative abundance	20.6

Date: 02-AUG-96 14:49

Instrument: msd3.1

Sample ID: DFTPP02

Column phase:

Column diameter: 2.00

Volume Injected (uL): 1.0

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

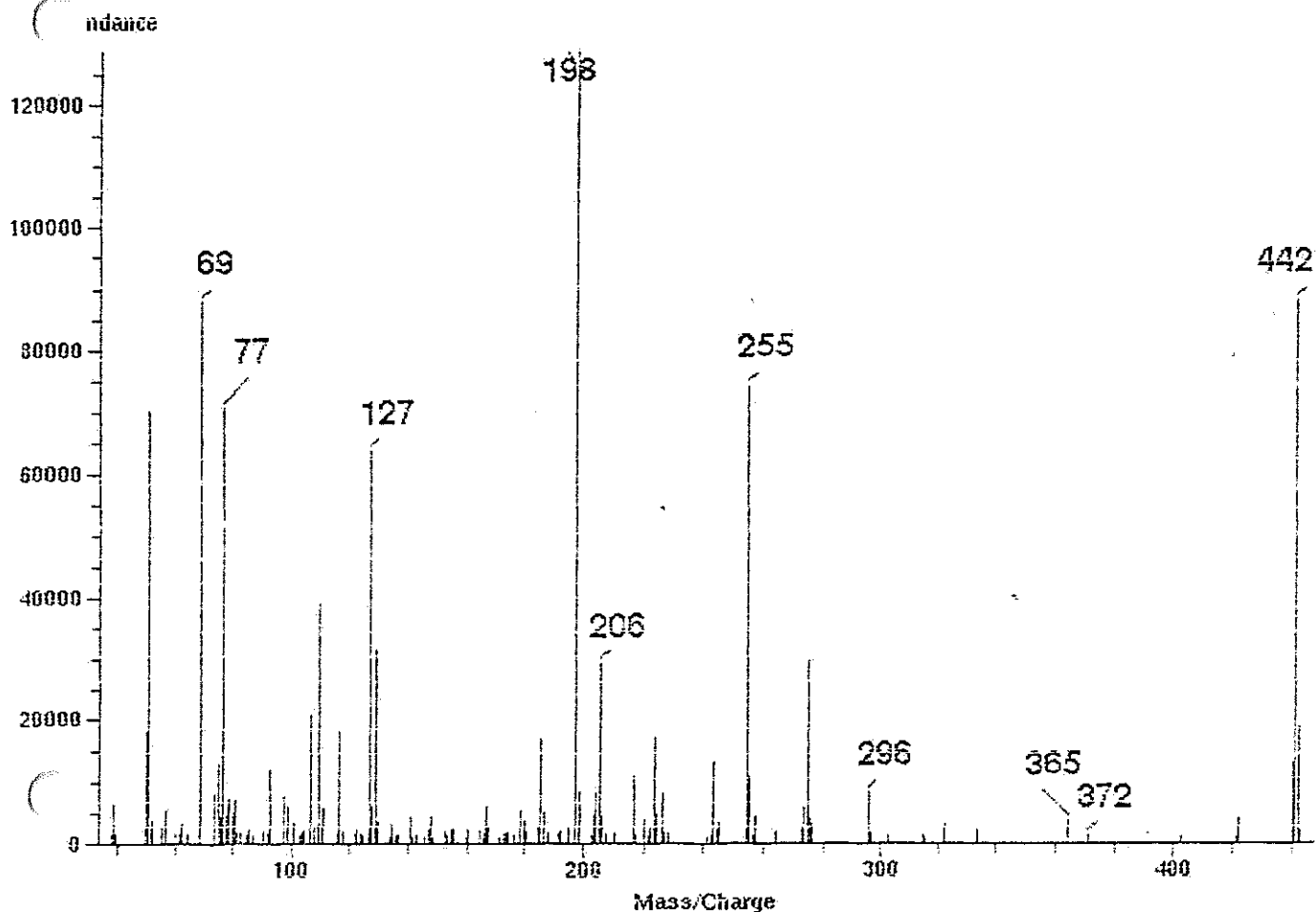
Base Peak: 198.00

Number of mass peaks: 139

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
38.00	725	104.00	1439	166.00	737	227.00	6079
39.00	4997	105.00	1199	167.00	4222	228.00	742
50.00	14740	107.00	15456	168.00	1925	229.00	868
51.00	51728	108.00	1994	172.00	502	242.00	531
52.00	2404	110.00	28738	173.00	395	243.00	655
56.00	1525	111.00	3840	174.00	836	244.00	9705
57.00	3774	116.00	1062	175.00	1492	245.00	1415
61.00	793	117.00	13354	177.00	595	246.00	2122
62.00	738	118.00	936	179.00	3735	255.00	52448
63.00	2143	122.00	938	180.00	2446	256.00	7464
65.00	821	123.00	1666	181.00	894	257.00	552
69.00	68466	124.00	785	185.00	1613	258.00	2971
73.00	252	125.00	686	186.00	12371	265.00	1217
74.00	6069	127.00	48605	187.00	3320	273.00	1575
75.00	9661	128.00	4262	189.00	679	274.00	4029
76.00	3330	129.00	23730	192.00	1121	275.00	21696
77.00	54048	130.00	1921	193.00	1293	276.00	2897
78.00	3836	134.00	529	196.00	1926	277.00	1746
79.00	5107	135.00	1773	198.00	95029	296.00	5986
80.00	3558	136.00	305	199.00	5906	297.00	775
81.00	5079	137.00	687	203.00	335	303.00	558
82.00	1018	141.00	2858	204.00	3462	315.00	332
83.00	759	142.00	592	205.00	5875	316.00	243
85.00	724	143.00	280	206.00	21767	323.00	1759
86.00	1317	146.00	235	207.00	3198	334.00	1327
87.00	602	147.00	1325	208.00	764	365.00	2478
91.00	1053	148.00	3214	211.00	741	372.00	889
92.00	950	149.00	250	216.00	255	403.00	260
93.00	9149	153.00	933	217.00	7621	422.00	246
94.00	243	154.00	317	218.00	720	423.00	2828
98.00	5429	155.00	1176	221.00	2738	441.00	9919
99.00	4210	156.00	1778	222.00	687	442.00	65272
100.00	257	160.00	696	223.00	1716	443.00	13423
101.00	1682	161.00	961	224.00	12239	444.00	1133
103.00	719	165.00	928	225.00	2895		

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Scan 241 (7.473 min) of DFTPP080296.d
msd3 (ms5071-3); /chem/config/dvc/ms5071-3/dftpp.m; Tuned at 08:01 AM EDT on Mon Jul 29, 1996



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	54.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	68.2
70	Less than 2.0% of mass 69	0.0
127	40.0 to 60.0% of mass 198	49.4
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	6.2
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	69.9
442	Greater than 40.0% of mass 198	68.4
443	17.0 - 23.0% of mass 442	21.3

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

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

COMPOUND	RRF	RF80	MIN	%D	MAX
=====	=====	=====	=====	=====	=====
12-Fluorophenol	1.163	1.323	0.050	13.7	30.0
1Phenol-d5	1.838	1.979	0.050	2.2	30.0
1Aniline	2.065	2.080	0.050	0.7	30.0
1Phenol **	1.799	1.924	0.050	6.9	30.0
1Bis(2-chloroethyl) ether	1.619	1.710	0.050	9.6	30.0
12-Chlorophenol	1.388	1.378	0.050	0.7	30.0
11,3-Dichlorobenzene	1.439	1.412	0.050	1.8	30.0
11,4-Dichlorobenzene **	1.483	1.430	0.050	3.6	30.0
11,2-Dichlorobenzene	1.443	1.400	0.050	3.0	30.0
1Benzyl alcohol	1.756	1.796	0.050	1.7	30.0
12-Methylphenol	1.284	1.264	0.050	1.5	30.0
1Bis(2-chloroisopropyl) ether	2.323	2.508	0.050	8.0	30.0
1-Methylphenol	1.177	1.296	0.050	10.1	30.0
1n-Nitrosodi-n-propylamine *	1.418	1.466	0.050	3.3	30.0
1Hexachloroethane	0.844	0.880	0.050	4.2	30.0
1Nitrobenzene-d5	0.729	0.723	0.050	0.9	30.0
1Nitrobenzene	0.770	0.896	0.050	16.3	30.0
1Isophorone	1.155	1.219	0.050	5.5	30.0
12-Nitrophenol **	0.270	0.274	0.050	1.2	30.0
12,4-Dimethylphenol	0.486	0.502	0.050	3.4	30.0
1Bis(2-Chloroethoxy)methane	0.564	0.569	0.050	1.0	30.0
12,4-Dichlorophenol **	0.301	0.321	0.050	6.6	30.0
1Benzoic acid	0.178	0.211	0.010	18.0	30.0
11,2,4-Trichlorobenzene	0.374	0.372	0.050	0.6	30.0
1Naphthalene	1.053	1.026	0.050	2.5	30.0
14-Chloroaniline	0.379	0.357	0.050	6.0	30.0
1Hexachlorobutadiene **	0.300	0.305	0.050	1.5	30.0
14-Chloro-3-methylphenol **	0.420	0.397	0.050	5.4	30.0
12-Methylnaphthalene	0.754	0.896	0.050	18.8	30.0
1Hexachlorocyclopentadiene *	0.328	0.399	0.050	21.7	30.0
12,4,6-Trichlorophenol **	0.339	0.325	0.050	4.1	30.0
12,4,5-Trichlorophenol	0.379	0.344	0.050	9.2	30.0
12-Fluorobiphenyl	1.342	1.201	0.050	10.5	30.0
12-Chloronaphthalene	1.069	0.965	0.050	9.7	30.0
12-Nitroaniline	0.570	0.508	0.050	10.7	30.0
1Dimethyl phthalate	1.423	1.335	0.050	6.1	30.0
12,6-Dinitrotoluene	0.328	0.301	0.050	8.2	30.0
1Acenaphthylene	1.615	1.530	0.050	5.3	30.0
1-Nitroaniline	0.220	0.192	0.050	12.8	30.0
1Acenaphthene **	1.013	0.970	0.050	4.3	30.0
12,4-Dinitrophenol *	0.128	0.118	0.050	8.2	30.0
14-Nitrophenol *	0.099	0.078	0.050	21.6	30.0
12,4-Dinitrotoluene	0.416	0.385	0.050	7.4	30.0
1Dibenzofuran	1.400	1.310	0.050	6.5	30.0
1Diethyl phthalate	1.508	1.472	0.050	2.4	30.0

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

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

COMPOUND	RRF	RF80	MIN	MAX
=====	=====	=====	=====	=====
4-Chlorophenyl phenyl ether	0.578	0.536	0.050	30.0
Fluorene	1.062	1.029	0.050	30.0
4-Nitroaniline	0.156	0.122	0.050	30.0
4,6-Dinitro-2-methylphenol	0.168	0.177	0.050	30.0
N-Nitrosodiphenylamine **	0.466	0.436	0.050	30.0
1,2-Diphenylhydrazine	3.235	3.308	0.050	30.0
2,4,6-Tribromophenol	0.182	0.177	0.050	30.0
4-Bromophenyl phenyl ether	0.316	0.287	0.050	30.0
Hexachlorobenzene	0.343	0.354	0.050	30.0
Pentachlorophenol **	0.058	0.075	0.050	30.0
Phenanthrene	1.081	1.071	0.050	30.0
Anthracene	1.056	1.057	0.050	30.0
Carbazole	0.986	0.957	0.050	30.0
Di-n-butyl phthalate	1.679	1.836	0.050	30.0
Fluoranthene **	0.965	1.042	0.050	30.0
Pyrene	1.809	1.776	0.050	30.0
Terphenyl-d14	1.224	1.127	0.050	30.0
Butyl benzyl phthalate	1.012	1.046	0.050	30.0
Dioctyl adipate	0.765	0.815	0.050	30.0
3,3'-Dichlorobenzidine	0.254	0.191	0.050	30.0
Bis(2-ethylhexyl) phthalate	1.352	1.424	0.050	30.0
Benz(a)anthracene	1.249	1.242	0.050	30.0
Chrysene	1.190	1.213	0.050	30.0
Di-n-octyl phthalate **	2.813	2.936	0.050	30.0
Benzo(b)fluoranthene	1.470	1.573	0.050	30.0
Benzo(k)fluoranthene	1.554	1.502	0.050	30.0
Benzo(a)pyrene **	1.386	1.458	0.050	30.0
Indeno(1,2,3-cd)pyrene	1.188	1.323	0.050	30.0
Dibenz(a,h)anthracene	1.197	1.234	0.050	30.0
Benzo(g,h,i)perylene	1.189	1.315	0.050	30.0

EcoSys, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.1
Lab File ID: BNA0101001.d
Lab Sample ID:
Analysis Type: SU
Method File: /chem/msd3.1/3-080296.b/MA-BNA_2.m
Misc Info: CONTINUE CALIBRATION
Calibration Date: 08/02/96
Calibration Time: 1600
Sample Type: WATER
Level: LOW

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

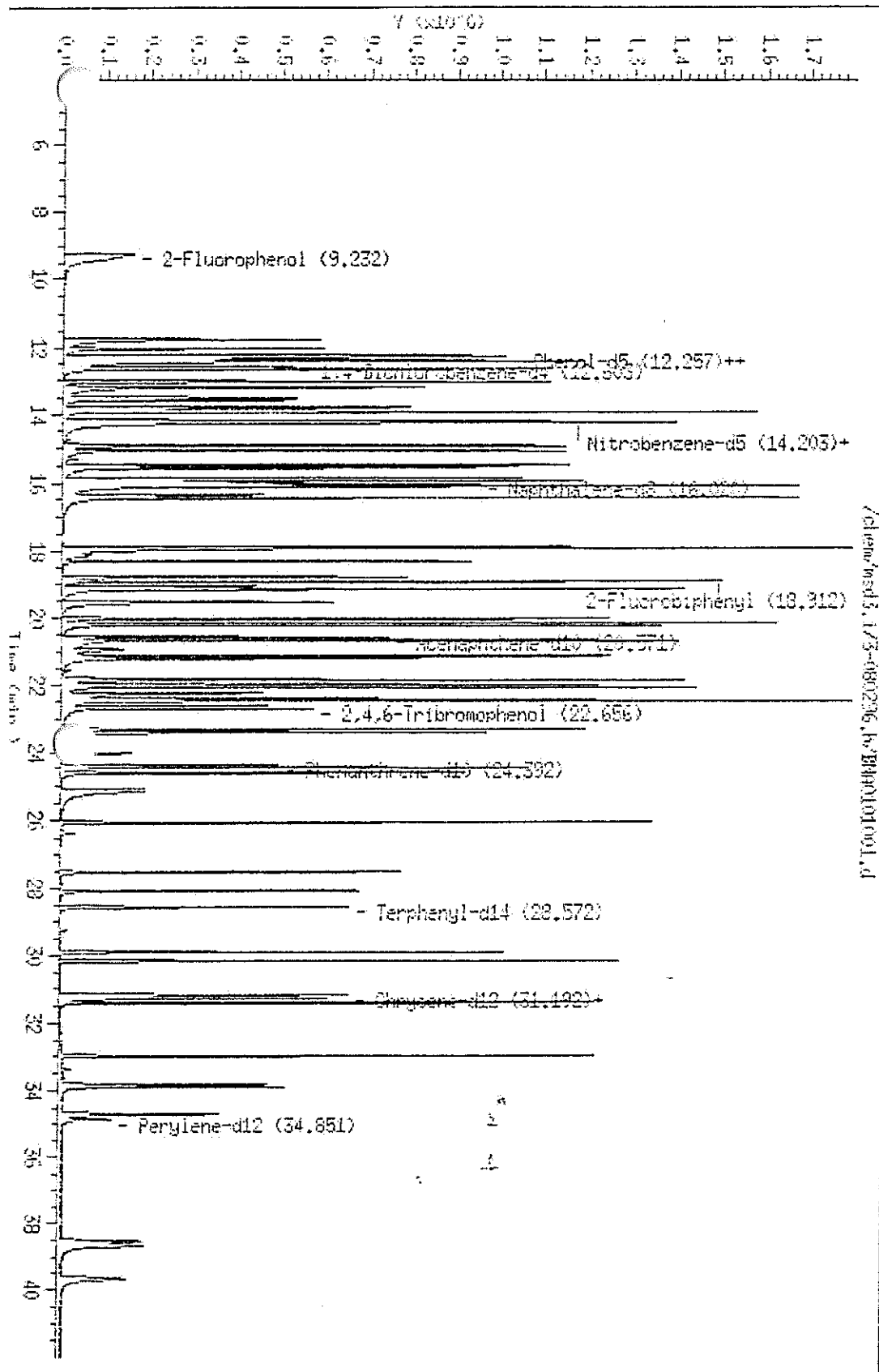
COMPOUND	STANDARD	RT LIMIT		SAMPLE	% DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenzene-	12.60	12.10	13.10	12.60	0.00
26 Naphthalene-d8	16.02	15.52	16.52	16.02	0.00
42 Acenaphthene-d10	20.57	20.07	21.07	20.57	0.00
58 Phenanthrene-d10	24.39	23.89	24.89	24.39	0.00
72 Chrysene-d12	31.21	30.71	31.71	31.21	0.00
78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

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

127

Data File: /chem/mcd3.1/3-080296.b/BH0101001.d
Date: 02-01-1996 15:11
Instrument: mcd3.1
Sample ID:
Column phase:
Volume injected (ul): 1.0

Column diameter: 0.20

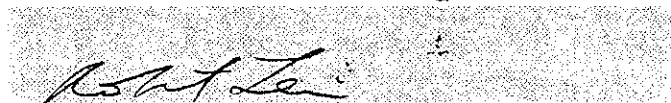


SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 108032	Extraction Method No.: 3550
Batch No(s): 0802960008	Date Extracted: 8/2/96
Lab File ID: BNA0201002	Date Analyzed: 8/2/96
Lab Sample ID: AB36630	Time Analyzed: 16:01
Cleanup Method: NA	Level: Low
Instrument ID: MSD-3	Matrix: Soil

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

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36702 LCS	BNA0301003	8/2/96
2	NA	AB36700 MS	BNA0801008	8/2/96
3	NA	AB36701 MSD	BNA0901009	8/2/96
4	8101-TK94C-S1	AB36628	BNA0701007	8/2/96
5	8101-TK94-S1	AB36629	BNA1001010	8/2/96
6				
7				
8				
9				



QA/QC Officer

Comments:

SemiVolatile MS/MSD Recovery

131

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 108032	Matrix Spike/Spike dup AB36628 REF
Batch No(s): 0802960008	AB36700 MS
Lab File ID: BNA0801008/BNA0901009	AB36701 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Phenol	3330	ND	1910	57		26-90
2-Chlorophenol	3330	ND	1990	60		25-102
1,4-Dichlorobenzene	1670	ND	1050	63		28-104
N-Nitroso-di-n-propylamine	1670	ND	1030	62		41-126
1,2,4-Trichlorobenzene	1670	ND	1020	61		38-107
4-Chloro-3-methylphenol	3330	ND	2550	77		26-103
Acenaphthene	1670	ND	1370	82		31-137
4-Nitrophenol	3330	ND	3430	103		11-114
2,4-Dinitrotoluene	1670	ND	1070	64		28-89
Pentachlorophenol	3330	ND	2900	87		17-109
Pyrene	1670	ND	1380	83		35-142

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits	
Phenol	3330	1480	44		25		RPD	Recovery
2-Chlorophenol	3330	1550	47		25		35	26-90
1,4-Dichlorobenzene	1670	872	52		19		50	25-102
N-Nitroso-di-n-propylamine	1670	824	49		22		27	28-104
1,2,4-Trichlorobenzene	1670	833	50		20		38	41-126
4-Chloro-3-methylphenol	3330	2160	65		17		23	38-107
Acenaphthene	1670	1140	68		18		33	26-103
4-Nitrophenol	3330	3360	101		2		19	31-137
2,4-Dinitrotoluene	1670	893	53		18		50	11-114
Pentachlorophenol	3330	3240	97		11		47	28-89
Pyrene	1670	1340	80		3		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: 0 out of 22 outside limits



QA/QC Officer

Comments: _____

SemiVolatile LCS Recovery

133

Lab Name: EcoSys, Inc.
Ledger No(s): 108032
Batch No(s): 0802960008
Lab File ID: BNA0301003

Client: ACE-SAD
Lab Control Spike: AB36702

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

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

* Values outside of QC limits

NR = Not Required

Spike Recovery: 0 out of 11 outside limits


QA/QC Officer

Comments: _____

SemiVolatile Surrogate Recovery (Soil)

135

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 108032

Level: Low

Batch No.(s): 0802960008

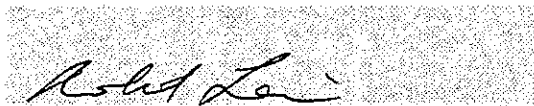
Lab	S1	S2	S3	S4	S5	S6	Total
Sample No.	(2FP) #	(PHL) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	Out
AB36630 MB	72	63	74	81	73	97	0
AB36702 LCS	71	68	62	77	70	90	0
AB36700 MS	59	55	55	76	76	84	0
AB36701 MSD	49	44	39	62	70	84	0
AB36628	51	51	52	74	66	84	0
AB36629	41	41	40	59	66	82	0

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:

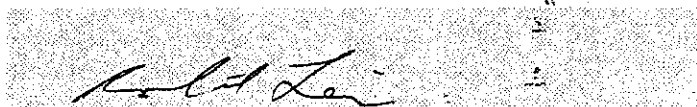
General Chemistry Method Blank Summary

137

Lab Name: EcoSys, Inc.
Ledger: 108032
Lab Sample ID: AB36630

Client: ACE-SAD
Client Sample ID: Soil Method Blank
Prep Date: 8/8/96
Batch ID: 080896

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



QA/QC Officer

Comments:

General Chemistry LCS Recovery

139

Lab Name: EcoSys, Inc.

Client: ACE-SAD

Ledger No(s): 108032

Batch ID: 080896

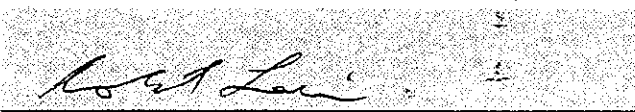
LCS

	Spike Added mg/Kg	Sample Conc. mg/Kg	LCS Conc. mg/Kg	LCS % Recovery	QC Limits Required
TPH 418.1	227	NR	214	94	80-120

NR = Not Required

ND = Not Detected

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



QA/QC Officer

Comments:

General Chemistry Duplicate Recovery

141

Lab Name: EcoSys, Inc.
Ledger No(s): 108032

Client: ACE-SAD
Batch ID: 080896

Sample AB36629

	Sample Result (mg/Kg)	Dup. Sample Result (mg/Kg)	% RPD
TPH 418.1	ND	ND	NC

RPD Limit 20%

NR = Not Required

ND = Not Detected

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



QA/QC Officer

Comments:

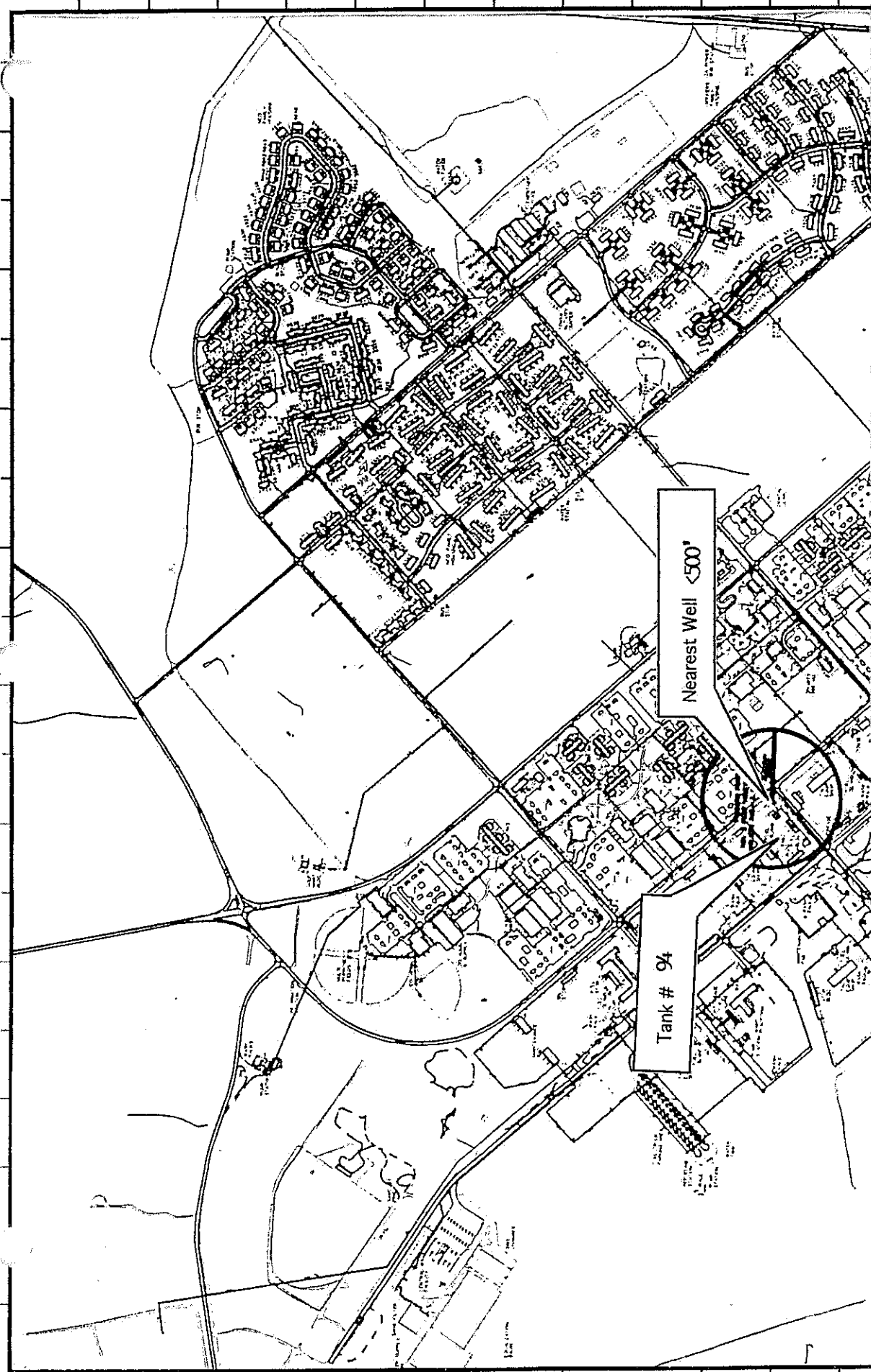
TAB 9

MANIFESTS

NO MANIFESTS ARE
APPLICABLE TO THIS CLEAN
SITE.

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) 755-1196	Area Map for Tank #94 Fort Stewart Hinesville, Georgia
	DR. <u>AJR</u> CH'D <u>SRC</u> DR. APP. <u>DFB</u> ENGR. <u>ENGR'G DEPT.</u> DATE <u>9 Oct 96</u> SCALE <u>1"=1000'</u>	DRAWING NO.: FIGURE 1

CLOSURE REPORT ADDENDUM

FACILITY ID. NO. 9-089076
UST #94

SEPTEMBER 30, 1998

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

CLOSURE REPORT ADDENDUM
UST #94, FACILITY ID. NO. 9-089076

SITE MAPS

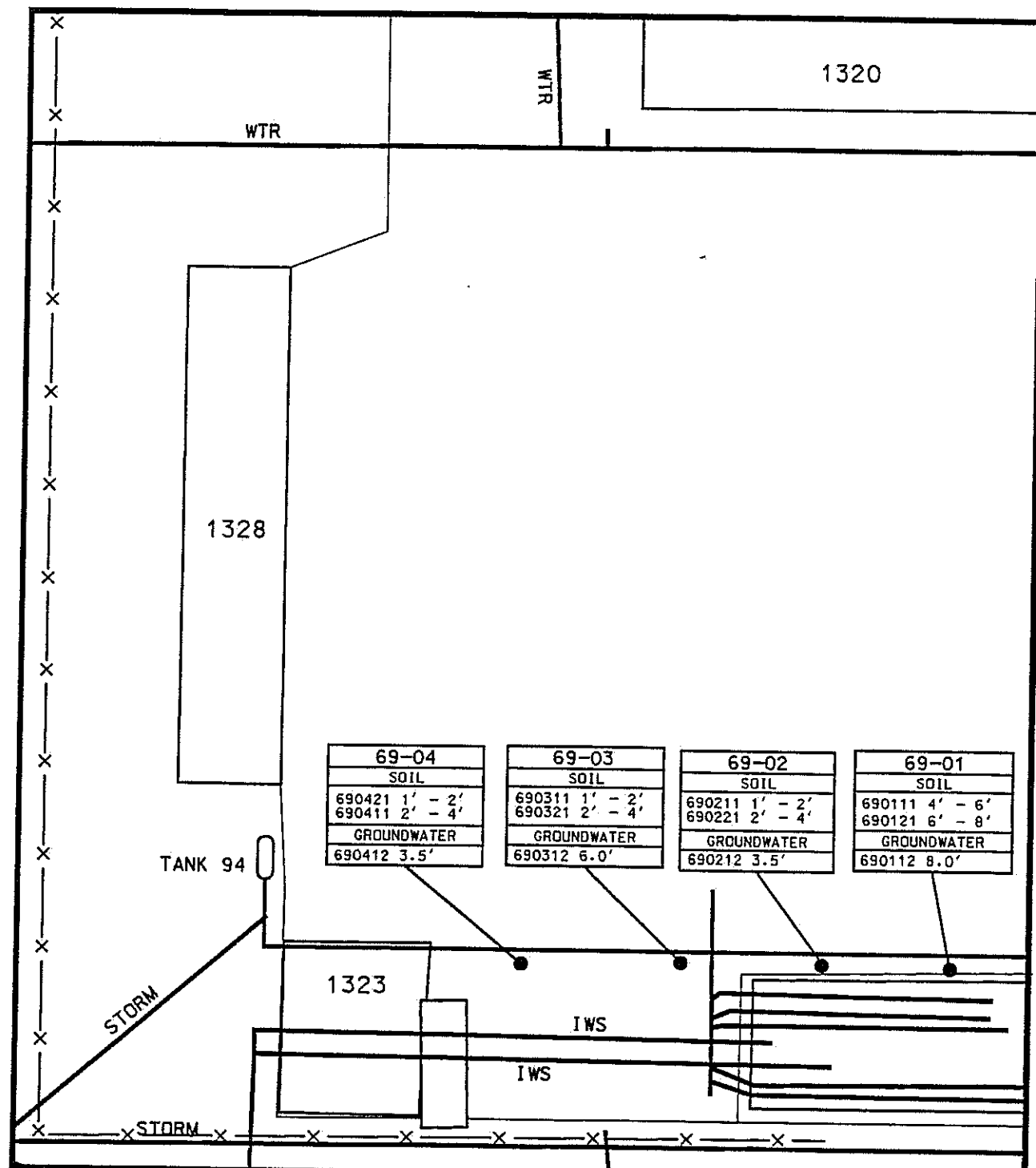
TAB 5

Enclosed is a revised site map which indicates the tank pit, piping trenches, sewer lines, water lines, sample locations, and a scale. In addition, the map also provides the locations of the borings installed in May 1998 for resampling of the site.

An as-built drawing of the facility where UST #94 was located is also provided for your use and convenience.

155
153

155

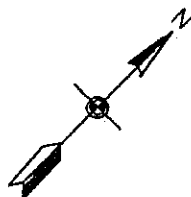


LEGEND

- CAP PART A SOIL BORING

0 20 40

SCALE: 1" = 40'



U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

UST 94, BLDG 1320/23/1328
FACILITY ID *9-089076
SITE LOCATION PLAN

DRAWN BY: J. LAMB REV. NO./DATE: 0/08/15/98 CAD FILE: 96016/DCNS/C47C035.DGN

CLOSURE REPORT ADDENDUM
UST #94, FACILITY ID. NO. 9-089076

159

CLOSURE OF PIPING
TAB 6

The undersigned certifies that the piping associated with former Tank #94, located at Building 1328, 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 located at the greaserack).

Name: Thomas C. Fry

Title: Chief, Environmental
Branch

Signature: Thomas C. Fry Date: 09/23/98

161

CLOSURE REPORT ADDENDUM
UST #94, FACILITY ID. NO. 9-089076

LABORATORY ANALYTICAL DATA
TAB 7

As requested, the site was resampled and the associated analytical data is attached. Please add the attached laboratory data sheets to the Closure Report submitted in December 1996 (Tab 7).

In addition, the laboratory data from the tank removal activities is being resubmitted and contains only site specific information (per GA EPD Comment #5, correspondence dated 3 March 1998).

Please replace the previously submitted data under Tab 7 with the aforementioned sampling data.

165

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 94
Building Number 1328

<i>Method</i> Sample ID <i>unit</i>	9073 TRPH ppm	418.1 TPH ppm	8020 BTEX ppb	8270B Semi-Volatile Organics ppb
8101-TK94-S1		bdl	bdl	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is within 500 feet from a withdrawal point. Comparisons need not be made to Table A because the analytical data do not reveal any contamination in the immediate vicinity of the excavation pit.

Complete Data Package Follows

Lab Sample ID AB36628
Project # 4040
Project Name FT. STEWART
Sampling Date/Time 07/29/96 13:00

Client Site # 29645
Client Sample # 8101-TK94C-S1

167

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
--------	---------	-----------	--------	-----	-------	-----------------	-------	---------	------------------

Sample Comment Results are reported on a dry weight basis.

BTEX (GC) SOIL

Prep Date 08/08/96

Batch 080896BW

8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	65	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	68	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/08/96

Prep Date 08/08/96

Batch 080896

418.1	TPH (FTIR) SOIL	08008	26	5.2	mg/Kg	1.0		JK	08/08/96
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Prep Date 08/02/96

Batch 0802960005

160.3	% TOTAL SOLIDS SOIL (N/C)	09099	95.3	0.1	%	1.0		MN	08/01/96
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Lab Sample ID AB36629
Project # 4040
Project Name FT. STEWART
Sampling Date/Time 07/29/96 15:00

Client Site # 29646
Client Sample # 8101-TK94-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 08/02/96

Batch 0802960008

8270B	PHENOL	\$06013	Below MDL	373	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	373	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	373	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	373	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	373	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	373	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	747	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	373	ug/Kg	1.0	111-91-1	GC	08/02/96

Lab Sample ID AB36629
Project # 4040
Project Name FT. STEWART
Sampling Date/Time 07/29/96 15:00

Client Site # 29646
Client Sample # 8101-TK94-S1

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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 08/02/96

Batch 0802960008

8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	373	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	373	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	747	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	373	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	373	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	373	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	373	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	373	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	373	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	373	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	373	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	373	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	373	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	373	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	373	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	373	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	373	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	373	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1867	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	373	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	373	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	373	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	373	ug/Kg	1.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	747	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	373	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	373	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	373	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	373	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	373	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	373	ug/Kg	1.0	50-32-8	GC	08/02/96

Lab Sample ID AB36629
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time 07/29/96 15:00

Client Site # 29646
 Client Sample # 8101-TK94-S1

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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 08/02/96

Batch 0802960008

8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	373	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	373	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	373	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	41	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	41	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	40	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	59	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	66	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	82	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	373	ug/Kg	1.0	86-74-8	GC	08/02/96

BTEX (GC) SOIL

Prep Date 08/08/96

Batch 080896BW

8020A	BENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.1	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	94	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	87	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.1	ug/Kg	1.0	106-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.1	ug/Kg	1.0	1634-04-4	DTA	08/08/96

Prep Date 08/08/96

Batch 080896

418.1	TPH (FTIR) SOIL	08008	Below MDL	5.7	mg/Kg	1.0		JK	08/08/96
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Prep Date 08/02/96

Batch 0802960005

160.3	% TOTAL SOLIDS SOIL (N/C)	09099	88.4	0.1	%	1.0		MN	08/01/96
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Lab Sample ID AB36630
 Project # 4040
 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
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SEMI (GC/MS) SOIL

Prep Date 08/02/96

Batch 0802960008

8270B	PHENOL	\$06013	Below MDL	330	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	95-50-1	GC	08/02/96

Lab Sample ID AB36630
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # SOIL METHOD BLANK

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METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96			Batch 0802960008		
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	330	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	330	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	\$06013	Below MDL	330	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	330	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	87-88-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	660	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	330	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	330	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	330	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	\$06013	Below MDL	330	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	\$06013	Below MDL	330	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	\$06013	Below MDL	330	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	330	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	\$06013	Below MDL	330	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	\$06013	Below MDL	330	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	330	ug/Kg	1.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	330	ug/Kg	1.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	330	ug/Kg	1.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	1650	ug/Kg	1.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	\$06013	Below MDL	330	ug/Kg	1.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	206-44-0	GC	08/02/96
8270B	PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	129-00-0	GC	08/02/96

Lab Sample ID AB36630
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # SOIL METHOD BLANK

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METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 08/02/96			Batch 0802960008		
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	660	ug/Kg	1.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	\$06013	Below MDL	330	ug/Kg	1.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	330	ug/Kg	1.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	330	ug/Kg	1.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	330	ug/Kg	1.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	330	ug/Kg	1.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	330	ug/Kg	1.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	\$06013	72	%	REC	1.0	357-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	63	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	74	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	81	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	73	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	97	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	\$06013	Below MDL	330	ug/Kg	1.0	86-74-8	GC	08/02/96
E (GC) SOIL				Prep Date 08/08/96			Batch 080896BW		
8020A	BENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	71-43-2	DTA	08/08/96
8020A	TOLUENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-88-3	DTA	08/08/96
8020A	ETHYLBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	100-41-4	DTA	08/08/96
8020A	XYLENES (TOTAL)	\$08006	Below MDL	1.0	ug/Kg	1.0	1330-20-7	DTA	08/08/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	90	%	REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	99	%	REC	1.0	460-00-4	DTA	08/08/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	108-90-7	DTA	08/08/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	95-50-1	DTA	08/08/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	541-73-1	DTA	08/08/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.0	ug/Kg	1.0	105-46-7	DTA	08/08/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.0	ug/Kg	1.0	1634-04-4	DTA	08/08/96
				Prep Date 08/08/96			Batch 080896		
418.1	TPH (FTIR) SOIL	\$08008	Below MDL	5.0	mg/Kg	1.0		JK	08/08/96

Lab Sample ID AB36700
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # MS

177

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

Lab Sample ID AB36701
 Project # 4040
 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 08/02/96			Batch 0802960001		
8270B	2-FLUOROPHENOL (SURR)	\$06013	49	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	\$06013	44	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	\$06013	39	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	\$06013	62	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	\$06013	70	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	\$06013	84	%	REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36702
 Project # 4040
 Project Name FT. STEWART
 Sampling Date/Time / /

Client Site #
 Client Sample # LCS

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

Lab Sample ID AB37090
Project # 4040
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # LCS

179

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96	Batch 080896BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	91	% REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	105	% REC	1.0	460-00-4	DTA	08/08/96

Lab Sample ID AB37091
Project # 4040
Project Name FT. STEWART
Sampling Date/Time / /

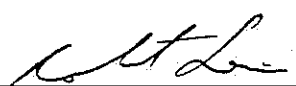
Client Site #
Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96	Batch 080896BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	61	% REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	66	% REC	1.0	460-00-4	DTA	08/08/96

Lab Sample ID AB37092
Project # 4040
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 08/08/96	Batch 080896BW			
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	\$08006	64	% REC	1.0	98-08-8	DTA	08/08/96
8020A	4-BROMOFLUOROBENZENE (SURR)	\$08006	65	% REC	1.0	460-00-4	DTA	08/08/96


Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

NC-DEHNR 441, SC-DHEC 98013, GA, TN-DOH 02826, UT-DOH 5-228, 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 Engineers Validation
GA-DNR 1283-1 A2LA:0594-01 GA-00058 GA-0001011006 S-3966 58-188334

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ANDERSON COLUMBIA
ENVIRONMENTAL, INC.

CHAN OF CUSTODY RECORD

Page 1 of 1
Lab # 7796

[illegible]



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

STATEMENT ON LABORATORY DETECTION LIMITS

General Engineering has been performing chemical analysis on soil and groundwater samples for SAIC managed Ft. Stewart, GA, UST CAP Part-A and CAP Part-B Investigations for the past two years.

In the course of these studies GEL has employed appropriate EPA SW-846 protocols according to Methods 8020 for BTEX compounds, 8270 for PAH compounds, and modified 8015 for TPH-GRO and TPH-DRO components.

In performance of these methods the laboratory has consistently maintained analyte reporting levels of:

<u>Analyte</u>	<u>Soil</u> <u>ug/Kg</u>	<u>Water</u> <u>ug/L</u>
Benzene	5	5
Toluene	5	5
Ethylbenzene	5	5
Xylenes	10	10
PAHs	330	10
	<u>mg/Kg</u>	<u>mg/L</u>
TPH-GRO	5	0.1
TPH-DRO	4	0.1
TPH	10	0.2

Analytical method detection levels (MDLs) have been maintained at the following levels:

<u>Analyte</u>	<u>Soil</u> <u>ug/Kg</u>	<u>Water</u> <u>ug/L</u>
Benzene	2	2
Toluene	2	2
Ethylbenzene	2	2
Xylenes	4	4
PAHs	70	2
	<u>mg/Kg</u>	<u>mg/L</u>
TPH-GRO	2	0.05
TPH-DRO	2	0.05
TPH	4	0.1

187

These reporting protocols follow current EPA direction.

The data produced for these Ft. Stewart UST Investigations was determined using approved EPA methodology by qualified analytical chemists. It has been reviewed by the laboratory and is considered technically sound and defensible.

Title: Quality Systems Manager

Date: 1 April 98

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690111DL

189

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4005S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805294-14

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I5024

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 14

Date Analyzed: 05/15/98

GC Column: J&W DB-624(PID) ID: 0.53 (mm)

Dilution Factor: 5.0

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	11.6	U
108-88-3-----Toluene	168	D
100-41-4-----Ethylbenzene	11.6	U
1330-20-7-----Xylenes (total)	34.9	U

U
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U
U

DATA VALIDATION
COPY

use

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690111

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4005S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805294-14

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 2T333

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL)

Date Analyzed: 05/14/98

Injection Volume: 1.0 (μL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

DATA VALIDATION
COPY

CAS NO.

COMPOUND

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

Q

91-20-3-----	naphthalene	388	U
91-58-7-----	2-chloronaphthalene	388	U
209-96-8-----	acenaphthylene	388	U
83-32-9-----	acenaphthene	388	U
86-73-7-----	fluorene	388	U
85-01-8-----	phenanthrene	388	U
120-12-7-----	anthracene	388	U
206-44-0-----	fluoranthene	388	U
129-00-0-----	pyrene	388	U
56-55-3-----	benzo (a) anthracene	388	U
218-01-9-----	chrysene	388	U
205-99-2-----	benzo (b) fluoranthene	388	U
207-08-9-----	benzo (k) fluoranthene	388	U
50-32-8-----	benzo (a) pyrene	388	U
193-39-5-----	indeno (1,2,3-cd) pyrene	388	U
53-70-3-----	dibenz (a,h) anthracene	388	U
191-24-2-----	benzo (g,h,i) perylene	388	U

DATA VALIDATION COPY

193

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: June 01, 1998

Page 1 of 1

Sample ID : 690111
Lab ID : 9805294-14
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry		11.6									
Total Rec. Petro. Hydrocarbons	J	277 U F01, F06	230	11.6	mg/kg	1.0	JLP	05/13/98	1100	122011	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 (803) 769-7391.

Reviewed By



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690121

195

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-07

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I5016

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 18

Date Analyzed: 05/15/98

GC Column: J&W DB-624(PID) 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			
108-88-3-----Toluene	2.4	U	U
100-41-4-----Ethylbenzene	3.0	P	J
1330-20-7-----Xylenes (total)	2.4	U	U
	7.3	U	U

1008

DATA VALIDATION
COPY

FORM I VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690121

197

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
Lab Code: NA Case No.: NA SAS No.: NA

SDG No.: FS4006S

Lab Sample ID: 9805295-07

Lab File ID: 2T531

Date Received: 05/11/98

Date Extracted: 05/14/98

Date Analyzed: 05/16/98

Dilution Factor: 1.0

Matrix: (soil/water) SOIL

Sample wt/vol: 30.0 (g/mL) G

Level: (low/med) LOW

% Moisture: 18 decanted: (Y/N) N

Concentrated Extract Volume: 1.00 (mL)

Injection Volume: 1.0 (uL)

GPC Cleanup: (Y/N) N

DATA VALIDATION

CAS NO.

COMPOUND

COPY

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

Q

91-20-3-----	naphthalene	406	U
91-58-7-----	2-chloronaphthalene	406	U
209-96-8-----	acenaphthylene	406	U
83-32-9-----	acenaphthene	406	U
86-73-7-----	fluorene	406	U
85-01-8-----	phenanthrene	406	U
120-12-7-----	anthracene	406	U
206-44-0-----	fluoranthene	406	U
129-00-0-----	pyrene	406	U
56-55-3-----	benzo (a) anthracene	406	U
218-01-9-----	chrysene	406	U
205-99-2-----	benzo (b) fluoranthene	406	U
207-08-9-----	benzo (k) fluoranthene	406	U
50-32-8-----	benzo (a) pyrene	406	U
193-39-5-----	indeno (1,2,3-cd) pyrene	406	U
53-70-3-----	dibenz (a,h) anthracene	406	U
191-24-2-----	benzo (g,h,i) perylene	406	U

U
↓

Form 1: Inorganic Analyses Data Sheet

SDG No.: FS4006S

Method Type: Total Metals

DATA VALIDATION
COPY

199

Sample ID: 9805295-07

Client ID: 690121

Contract: SAIC00598

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 5/11/98

Level: LOW

% Solids: 82.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	6.2	mg/kg	J	Pd2	P	0.12	TJA61 Trace ICPAES	980514a-1

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

201

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID : 690121
Lab ID : 9805295-07
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons	U	2.29 U	2.42	12.2	mg/kg	1.0	JLP	05/13/98	1100	122011	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 (803) 769-7391.

Reviewed By



9805295-07

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 203

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

690112

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

SDG No.: FS4014W

Matrix: (soil/water) GROUNDH2O

Lab Sample ID: 9805308-06

Sample wt/vol: 10.00 (g/ml) ML

Lab File ID: 2J2015

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. _____

Date Analyzed: 05/19/98

GC Column: J&W DB-624(PID) ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

71-43-2-----Benzene	5.3	U	F04, F07
108-88-3-----Toluene	3.8	U	F04, F07
100-41-4-----Ethylbenzene	4.0	P UJ	F04, F07, M08
1330-20-7-----Xylenes (total)	6.0 2.7	J UJ	F04, F06

DATA VALIDATION
COPY

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

205

690112

b Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4011W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805303-05

Sample wt/vol: 910.0 (g/mL) ML Lab File ID: 4T411

Level: (low/med) LOW DATA VALIDATION Date Received: 05/11/98

% Moisture: _____ decanted: (Y/N) COPY Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/14/98

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/L Q

91-20-3-----	naphthalene	11.0	U
91-58-7-----	2-chloronaphthalene	11.0	U
208-96-8-----	acenaphthylene	11.0	U
83-32-9-----	acenaphthene	11.0	U
86-73-7-----	fluorene	11.0	U
85-01-8-----	phenanthrene	11.0	U
120-12-7-----	anthracene	11.0	U
206-44-0-----	fluoranthene	11.0	U
129-00-0-----	pyrene	11.0	U
56-55-3-----	benzo (a) anthracene	11.0	U
218-01-9-----	chrysene	11.0	U
205-99-2-----	benzo (b) fluoranthene	11.0	U
207-08-9-----	benzo (k) fluoranthene	11.0	U
50-32-8-----	benzo (a) pyrene	11.0	U
193-39-5-----	indeno (1,2,3-cd) pyrene	11.0	U
53-70-3-----	dibenz (a,h) anthracene	11.0	U
191-24-2-----	benzo (g,h,i) perylene	11.0	U

u
↓

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 207

690211

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-04

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I5010

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 8

Date Analyzed: 05/15/98

GC Column: J&W DB-624(PID) 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	2.2	U
108-88-3-----Toluene	31.0	U
100-41-4-----Ethylbenzene	2.2	U
1330-20-7-----Xylenes (total)	6.5	U

U
U
U
U

DATA VALIDATION
COPY

FORM I VOA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 209

690211

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-04

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 2T528

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 05/14/98

Concentrated Extract Volume: 1.00 (mL)

Date Analyzed: 05/16/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

DATA VALIDATION
COPY

CAS NO.

COMPOUND

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

Q

91-20-3-----	naphthalene	362	U
91-58-7-----	2-chloronaphthalene	362	U
209-96-8-----	acenaphthylene	362	U
83-32-9-----	acenaphthene	362	U
86-73-7-----	fluorene	362	U
85-01-8-----	phenanthrene	362	U
120-12-7-----	anthracene	362	U
206-44-0-----	fluoranthene	362	U
129-00-0-----	pyrene	362	U
56-55-3-----	benzo (a) anthracene	362	U
218-01-9-----	chrysene	362	U
205-99-2-----	benzo (b) fluoranthene	362	U
207-08-9-----	benzo (k) fluoranthene	362	U
50-32-8-----	benzo (a) pyrene	362	U
193-39-5-----	indeno (1,2,3-cd) pyrene	362	U
53-70-3-----	dibenz (a,h) anthracene	362	U
191-24-2-----	benzo (g,h,i) perylene	362	U

U
↓

211

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID : 690211
Lab ID : 9805295-04
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		13.2 5 <i>F01, F08, 2.16</i>	2.16	10.9	mg/kg	1.0	JLP	05/13/98	1100	122011	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 (803) 769-7391.

Reviewed By _____



QRN5705.N4

213

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690221

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-09

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I4032

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 15

Date Analyzed: 05/15/98

GC Column: J&W DB-624 (PID) 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	2.4	U
108-88-3-----Toluene	14.5	U
100-41-4-----Ethylbenzene	2.4	U
1330-20-7-----Xylenes (total)	7.0	U

01000

DATA VALIDATION
COPY

FORM I VOA

215

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690221

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-09

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: 2T533

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: 15 decanted: (Y/N) N

Date Extracted: 05/14/98

Concentrated Extract Volume: 1.00 (mL)

Date Analyzed: 05/16/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

DATA VALIDATION

COPY

CAS NO.

COMPOUND

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

Q

91-20-3-----	naphthalene	384	U
91-58-7-----	2-chloronaphthalene	384	U
209-96-8-----	acenaphthylene	384	U
83-32-9-----	acenaphthene	384	U
86-73-7-----	fluorene	384	U
85-01-8-----	phenanthrene	384	U
120-12-7-----	anthracene	384	U
206-44-0-----	fluoranthene	384	U
129-00-0-----	pyrene	384	U
56-55-3-----	benzo (a) anthracene	384	U
218-01-9-----	chrysene	384	U
205-99-2-----	benzo (b) fluoranthene	384	U
207-08-9-----	benzo (k) fluoranthene	384	U
50-32-8-----	benzo (a) pyrene	384	U
193-39-5-----	indeno (1,2,3-cd) pyrene	384	U
53-70-3-----	dibenz (a,h) anthracene	384	U
191-24-2-----	benzo (g,h,i) perylene	384	U

U
↓

217

Form 1: Inorganic Analyses Data Sheet **DATA VALIDATION**
 Method Type: Total Metals **COPY**

SDG No.: FS4006S

Sample ID: 9805295-09

Client ID: 690221

Contract: SAIC00598

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 5/11/98

Level: LOW

% Solids: 85.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	3.3	mg/kg	5	P 42	P	0.11	TJA61 Trace ICPAES	980514a-1

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

219

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID	: 690221
Lab ID	: 9805295-09
Matrix	: Soil
Date Collected	: 05/09/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry		11.8									
Total Rec. Petro. Hydrocarbons	J	258 UZF01, F06, 234	234	11.8	mg/kg	1.0	JLP	05/13/98	1100	122011	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 (803) 769-7391.

Reviewed By



9805295-09

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 221

690212

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4013W

Matrix: (soil/water) GROUNDH2O

Lab Sample ID: 9805307-17

Sample wt/vol: 10.00 (g/ml) ML

Lab File ID: 2J1052

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. _____

Date Analyzed: 05/20/98

GC Column: J&W DB-624 (PID) 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/L

Q

71-43-2-----Benzene	2.0	U
108-88-3-----Toluene	2.0	U
100-41-4-----Ethylbenzene	2.0	U
1330-20-7-----Xylenes (total)	6.0	U

4
↓

DATA VALIDATION
COPY

FORM I VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 223

690212

Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4011W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805303-06

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: 4T412

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: _____ decanted: (Y/N) Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/14/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

DATA VALIDATION
COPY

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

91-20-3-----	naphthalene	10.5	U
91-58-7-----	2-chloronaphthalene	10.5	U
208-96-8-----	acenaphthylene	10.5	U
83-32-9-----	acenaphthene	10.5	U
86-73-7-----	fluorene	10.5	U
85-01-8-----	phenanthrene	10.5	U
120-12-7-----	anthracene	10.5	U
206-44-0-----	fluoranthene	10.5	U
129-00-0-----	pyrene	10.5	U
56-55-3-----	benzo (a) anthracene	10.5	U
218-01-9-----	chrysene	10.5	U
205-99-2-----	benzo (b) fluoranthene	10.5	U
207-08-9-----	benzo (k) fluoranthene	10.5	U
50-32-8-----	benzo (a) pyrene	10.5	U
193-39-5-----	indeno (1,2,3-cd) pyrene	10.5	U
53-70-3-----	dibenz (a,h) anthracene	10.5	U
191-24-2-----	benzo (g,h,i) perylene	10.5	U

u

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

225

690311

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-05

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I609

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 8

Date Analyzed: 05/16/98

GC Column: J&W DB-624 (PID) 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	0.73	J
108-88-3-----Toluene	11.3	P
100-41-4-----Ethylbenzene	1.6	J
1330-20-7-----Xylenes (total)	13.9	

1545 11 m08

DATA VALIDATION
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FORM I VOA

227

1B
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690311

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-05

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 2T529

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 05/14/98

Concentrated Extract Volume: 1.00 (mL)

Date Analyzed: 05/16/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

DATA VALIDATION

CAS NO.

COMPOUND

COPY

CONCENTRATION UNITS:
ug/L or ug/Kg UG/KG

Q

91-20-3-----	naphthalene	362	U
91-58-7-----	2-chloronaphthalene	362	U
209-96-8-----	acenaphthylene	362	U
83-32-9-----	acenaphthene	362	U
86-73-7-----	fluorene	362	U
85-01-8-----	phenanthrene	362	U
120-12-7-----	anthracene	42.3	J
206-44-0-----	fluoranthene	362	U
129-00-0-----	pyrene	38.2	J
56-55-3-----	benzo (a) anthracene	74.7	J
218-01-9-----	chrysene	362	U
205-99-2-----	benzo (b) fluoranthene	362	U
207-08-9-----	benzo (k) fluoranthene	362	U
50-32-8-----	benzo (a) pyrene	362	U
193-39-5-----	indeno (1,2,3-cd) pyrene	362	U
53-70-3-----	dibenz (a,h) anthracene	362	U
191-24-2-----	benzo (g,h,i) perylene	362	U

COPY

DATA VALIDATION
COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID : 690311
Lab ID : 9805295-05
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		153	216	10.9	mg/kg	1.0	JLP	05/13/98	1100	122011	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 (803) 769-7391.

Reviewed By



0805705_05

231

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690321

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4006S

Matrix: (soil/water) SOIL Lab Sample ID: 9805295-08

Sample wt/vol: 10.0 (g/mL) G Lab File ID: 214031

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. 10 Date Analyzed: 05/15/98

GC Column: J&W DB-624 (PID) 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	2.2	U
108-88-3-----Toluene	59.6	U
100-41-4-----Ethylbenzene	2.2	U
1330-20-7-----Xylenes (total)	6.7	U

U
U
U
U

DATA VALIDATION
COPY

FORM I VOA

233

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690321

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4006S
 Matrix: (soil/water) SOIL Lab Sample ID: 9805295-08
 Sample wt/vol: 30.8 (g/mL) G Lab File ID: 2T532
 Level: (low/med) LOW Date Received: 05/11/98
 % Moisture: 10 decanted: (Y/N) N Date Extracted: 05/14/98
 Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/16/98
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N

DATA VALIDATION

COPY

CAS NO.

COMPOUND

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

Q

91-20-3-----	naphthalene	361	U
91-58-7-----	2-chloronaphthalene	361	U
209-96-8-----	acenaphthylene	361	U
83-32-9-----	acenaphthene	361	U
86-73-7-----	fluorene	361	U
85-01-8-----	phenanthrene	361	U
120-12-7-----	anthracene	361	U
206-44-0-----	fluoranthene	361	U
129-00-0-----	pyrene	361	U
56-55-3-----	benzo (a) anthracene	361	U
218-01-9-----	chrysene	361	U
205-99-2-----	benzo (b) fluoranthene	361	U
207-08-9-----	benzo (k) fluoranthene	361	U
50-32-8-----	benzo (a) pyrene	361	U
193-39-5-----	indeno (1,2,3-cd) pyrene	361	U
53-70-3-----	dibenz (a,h) anthracene	361	U
191-24-2-----	benzo (g,h,i) perylene	361	U

FORM I SV-1

OLM03.0

Form 1: Inorganic Analyses Data Sheet

SDG No.: FS4006S

Method Type: Total Metals

DATA VALIDATION
COPY

235

Sample ID: 9805295-08

Client ID: 690321

Contract: SAIC00598

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 5/11/98

Level: LOW

% Solids: 90.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	2.9	mg/kg	5	P43	P	0.10	TJA61 Trace ICPAES	980514a-1

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

237

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID : 690321
Lab ID : 9805295-08
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		11.5 ± F01, F08, ±	2.20	11.1	mg/kg	1.0	JLP	05/13/98	1100	122011	1

M = Method	Method-Description
M 1	EPA 418.1 Modified

Notes:

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

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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 (803) 769-7391.

Reviewed By



VOLATILE ORGANICS ANALYSIS DATA SHEET

BPA SAMPLE NO.

239

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

690312

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4014W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805308-08

Sample wt/vol: 10.00 (g/ml) ML Lab File ID: 2J2017

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. Date Analyzed: 05/19/98

GC Column: J&W DB-624(PID) ID: 0.53 (mm) Dilution Factor: 1.0

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

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

71-43-2-----Benzene	2.0	U
108-88-3-----Toluene	2.0	U
100-41-4-----Ethylbenzene	2.0	U
1330-20-7-----Xylenes (total)	6.0	U

U
↓

DATA VALIDATION
COPY

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. **241**

690312

o Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4011W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805303-13

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 4T419

Level: (low/med) LOW DATA VALIDATION Date Received: 05/11/98

% Moisture: _____ decanted: (Y/N) COPY Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/98

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/L Q

91-20-3-----	naphthalene	11.1	U
91-58-7-----	2-chloronaphthalene	11.1	U
208-96-8-----	acenaphthylene	11.1	U
83-32-9-----	acenaphthene	11.1	U
86-73-7-----	fluorene	11.1	U
85-01-8-----	phenanthrene	11.1	U
120-12-7-----	anthracene	11.1	U
206-44-0-----	fluoranthene	11.1	U
129-00-0-----	pyrene	11.1	U
56-55-3-----	benzo (a) anthracene	11.1	U
218-01-9-----	chrysene	11.1	U
205-99-2-----	benzo (b) fluoranthene	11.1	U
207-08-9-----	benzo (k) fluoranthene	11.1	U
50-32-8-----	benzo (a) pyrene	11.1	U
193-39-5-----	indeno (1,2,3-cd) pyrene	11.1	U
53-70-3-----	dibenz (a,h) anthracene	11.1	U
191-24-2-----	benzo (g,h,i) perylene	11.1	U

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

243

690411

Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4005S

Matrix: (soil/water) SOIL Lab Sample ID: 9805294-18

Sample wt/vol: 10.0 (g/mL) G Lab File ID: 2I5016

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. 12 Date Analyzed: 05/15/98

GC Column: J&W DB-624(PID) 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	5.7	
108-88-3-----	Toluene	7.7	
100-41-4-----	Ethylbenzene	2.3	U
1330-20-7-----	Xylenes (total)	5.1	J

1110
JUL

DATA VALIDATION
COPY

FORM I VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690411

245

.b Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4005S

Matrix: (soil/water) SOIL Lab Sample ID: 9805294-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2T337

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: 12 decanted: (Y/N) N Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/14/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

DATA VALIDATION

CAS NO.

COMPOUND

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

Q

COPY

91-20-3-----	naphthalene	379	U
91-58-7-----	2-chloronaphthalene	379	U
209-96-8-----	acenaphthylene	379	U
83-32-9-----	acenaphthene	379	U
86-73-7-----	fluorene	379	U
85-01-8-----	phenanthrene	379	U
120-12-7-----	anthracene	379	U
206-44-0-----	fluoranthene	379	U
129-00-0-----	pyrene	379	U
56-55-3-----	benzo (a) anthracene	379	U
218-01-9-----	chrysene	379	U
205-99-2-----	benzo (b) fluoranthene	379	U
207-08-9-----	benzo (k) fluoranthene	379	U
50-32-8-----	benzo (a) pyrene	379	U
193-39-5-----	indeno (1,2,3-cd) pyrene	379	U
53-70-3-----	dibenz (a,h) anthracene	379	U
191-24-2-----	benzo (g,h,i) perylene	379	U

U
↓

247

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: June 01, 1998

Page 1 of 1

Sample ID	: 690411
Lab ID	: 9805294-18
Matrix	: Soil
Date Collected	: 05/10/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		20.6 U F01, F07	226	11.4	mg/kg	1.0	JLP	05/15/98	1100	122290	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 (803) 769-7391.

Reviewed By _____



9805294-18

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 249

690421

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4004S

Matrix: (soil/water) SOIL Lab Sample ID: 9805292-14

Sample wt/vol: 10.0 (g/mL) G Lab File ID: 2I3028

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. 9 Date Analyzed: 05/13/98

GC Column: J&W DB-624(PID) 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	2.2	U	U U U U
108-88-3-----	Toluene	21.0	U	
100-41-4-----	Ethylbenzene	2.2	U	
1330-20-7-----	Xylenes (total)	6.6	U	

DATA VALIDATION
COPY

FORM I VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 251

690421

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4004S

Matrix: (soil/water) SOIL Lab Sample ID: 9805292-14

Sample wt/vol: 30.4 (g/mL) Lab File ID: 4T303

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: 9 decanted: (Y/N) N Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/13/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

DATA VALIDATION
COPY

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

91-20-3-----	naphthalene	361	U
91-58-7-----	2-chloronaphthalene	361	U
208-96-8-----	acenaphthylene	361	U
83-32-9-----	acenaphthene	361	U
86-73-7-----	fluorene	361	U
85-01-8-----	phenanthrene	361	U
120-12-7-----	anthracene	361	U
206-44-0-----	fluoranthene	361	U
129-00-0-----	pyrene	361	U
56-55-3-----	benzo (a) anthracene	361	U
218-01-9-----	chrysene	361	U
205-99-2-----	benzo (b) fluoranthene	361	U
207-08-9-----	benzo (k) fluoranthene	361	U
50-32-8-----	benzo (a) pyrene	361	U
193-39-5-----	indeno (1,2,3-cd) pyrene	361	U
53-70-3-----	dibenz (a,h) anthracene	361	U
191-24-2-----	benzo (g,h,i) perylene	361	U

U
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UJ
U
C05
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Form 1: Inorganic Analyses Data Sheet

SDG No.: FS4004S

Method Type: Total Metals

253

Sample ID: 9805292-14

Client ID: 690421

Contract: SAIC00598

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 5/11/98

Level: LOW

% Solids: 91.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	2.3	mg/kg	=		P	0.10	TJA61 Trace ICPAES	980517-1

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

DATA VALIDATION
COPY

255

DATA VALIDATION
COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID	: 690421
Lab ID	: 9805292-14
Matrix	: Soil
Date Collected	: 05/10/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		32.7 = $F\phi 1, F\phi 8$	2.18	11.0	mg/kg	1.0	JLP	05/15/98	1100	122290	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.

I 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 (803) 769-7391.

Reviewed By



9805292-14

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

257

690412

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4013W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805307-19

Sample wt/vol: 10.00 (g/ml) ML Lab File ID: 2J1046

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. Date Analyzed: 05/20/98

GC Column: J&W DB-624 (PID) 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/L	Q
---------	----------	--	---

71-43-2-----	Benzene	2.0	U
108-88-3-----	Toluene	2.0	U
100-41-4-----	Ethylbenzene	2.0	U
1330-20-7-----	Xylenes (total)	6.0	U

u
↓

DATA VALIDATION
COPY

FORM I VOA

259

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

690412

Name: GENERAL ENGINEERING LABOR Contract: NA
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4011W
Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805303-09
Sample wt/vol: 950.0 (g/mL) ML Lab File ID: 4T415
Level: (low/med) LOW Date Received: 05/11/98
% Moisture: _____ decanted (Y/N) Date Extracted: 05/12/98
Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/14/98
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

DATA VALIDATION
COPY

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
91-20-3	naphthalene	10.5	U	CC ↓
91-58-7	2-chloronaphthalene	10.5	U	
208-96-8	acenaphthylene	10.5	U	
83-32-9	acenaphthene	10.5	U	
86-73-7	fluorene	10.5	U	
85-01-8	phenanthrene	10.5	U	
120-12-7	anthracene	10.5	U	
206-44-0	fluoranthene	10.5	U	
129-00-0	pyrene	10.5	U	
56-55-3	benzo (a) anthracene	10.5	U	
218-01-9	chrysene	10.5	U	
205-99-2	benzo (b) fluoranthene	10.5	U	
207-08-9	benzo (k) fluoranthene	10.5	U	
50-32-8	benzo (a) pyrene	10.5	U	
193-39-5	indeno (1,2,3-cd) pyrene	10.5	U	
53-70-3	dibenz (a,h) anthracene	10.5	U	
191-24-2	benzo (g,h,i) perylene	10.5	U	



10 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: GA B000

PROJECT NAME: Fort Stewart New CAP Part A UST Investigation

[illegible]

LABORATORY NAME:
General Engineering Laboratory

PROJECT NUMBER: 01-0331-04-9205-200

PROJECT MANAGER: Patty Stoll

LABORATORY ADDRESS:

2040 Savage Road
Charleston, SC 29417

PHONE NO: (803) 558-8171

OBSERVATIONS, COMMENTS,
SPECIAL INSTRUCTIONS

9805302-19

2021

7865303-01

02

103

22

502 A

Figure 1

1000

1000

Cooler Temperature: 41.07

EDDEX NUMBER: _____

1

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7

265



SAIC
Science Applications International Corporation
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CHAIN OF CUSTODY RECORD

COC NO.: SAB3014

PROJECT NAME: Fort Stewart New CAP Part A UST Investigation
PROJECT NUMBER: 01-0331-04-9905-200

REQUESTED PARAMETERS

LABORATORY NAME:
General Engineering Laboratory

PROJECT MANAGER: Patty Stoll

LABORATORY ADDRESS:
2040 Savage Road
Charleston, SC 29417

Sampler (Signature) (Printed Name)

PHONE NO: (803) 556-8171

OBSERVATIONS, COMMENTS,
SPECIAL INSTRUCTIONS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	TOC	BTEX, GRO	PAH, DRO	PAH, DRO, Lead	PAH, TPH	PAH, TPH, Lead	PAH, TPH, Lead, TOC	No. of Bottles/ Vials:
730312	5/10/98	1445	water	1	1	1	1	1	1	1	1	1	1
590112	5/10/98	1040		2	2	2	2	2	2	2	2	2	2
600112	5/10/98	1555		2	2	2	2	2	2	2	2	2	2
690312	5/9/98	1620		2	2	2	2	2	2	2	2	2	2
730112	5/10/98	1135		2	2	2	2	2	2	2	2	2	2
540212	5/10/98	1150		2	2	2	2	2	2	2	2	2	2
730416	5/10/98	1430		2	2	2	2	2	2	2	2	2	2

5/11/98

LINGUISTIC BY: COMPANY NAME: RECEIVED BY: DATE/TIME: 5/11/98	RECEIVED BY: DATE/TIME: 5/11/98	TOTAL NUMBER OF CONTAINERS: 13 COOLER ID: #508, 6c COOLER TEMPERATURE: 40C
CEYD BY: COMPANY NAME: RECEIVED BY: DATE/TIME: 5-11-98	RECEIVED BY: DATE/TIME: 5-11-98	
COMPANY NAME: RECEIVED BY: DATE/TIME: 5-11-98	RECEIVED BY: DATE/TIME: 5-11-98	
COMPANY NAME: RECEIVED BY: DATE/TIME: 5-11-98	RECEIVED BY: DATE/TIME: 5-11-98	



SAIC
Systems Applications International Corporation

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CHAIN OF CUSTODY RECORD

COC NO.: CAB 013

PROJECT NAME: Fort Stewart New CAP Part A UST Investigation
PROJECT NUMBER: 01-0331-04-9305-200

PROJECT MANAGER: Patty Stiel

Sample (Signature) [Signature] (Printed Name)

Sample ID

Date Collected

Time Collected

Matrix

BTEX

PAH

TOC

BTEX, GRO

PAH, GRO

PAH, GRO, Lead

PAH, TPH

PAH, TPH, Lead

PAH, TPH, Lead, TOC

PAH, GRO, Lead, TOC

No. of Bottles/Vials:

LABORATORY NAME:
General Engineering Laboratory

LABORATORY ADDRESS:
2040 Savage Road
Charleston, SC 29417

PHONE NO: (803) 556-8171

OBSERVATIONS, COMMENTS,
SPECIAL INSTRUCTIONS

9805292-13

-14

-15

-16

-17

-18

-19

-20

9805294-01

-02

-03

-04

-05

Cooler Temperature: 40C

FEDEX NUMBER:

TOTAL NUMBER OF CONTAINERS: 50

Cooler ID:

#165

Date/Time

5/11/98

RECEIVED BY:

Shirley Francis

COMPANY NAME:

GEI

Date/Time

11/30

RECEIVED BY:

SAIC

COMPANY NAME:

SAIC

RELINQUISHED BY:

[Signature]

COMPANY NAME:

SAIC

RECEIVED BY:

15/10/98

COMPANY NAME:

SAIC

RELINQUISHED BY:

[Signature]

COMPANY NAME:

SAIC

RECEIVED BY:

5/11/98

COMPANY NAME:

SAIC

RELINQUISHED BY:

[Signature]

COMPANY NAME:

SAIC

RECEIVED BY:

1/600

COMPANY NAME:

SAIC

269



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CHAIN OF CUSTODY RECORD

COC NO.: GAB 014

PROJECT NAME: Fort Stewart New CAP Part A UST Investigation

PROJECT NUMBER: 01-0331-04-0305-200

PROJECT MANAGER: Paily Stoll

Sample ID: 730581, 730561, 730551, 730571, 730541, 690211, 690311, 640111, 690121, 690321, 690221, 640121, 730511

Requested Parameters	730581	730561	730551	730571	730541	690211	690311	640111	690121	690321	690221	640121	730511
BTEX													
PAH													
TOC													
BTEX, GRO													
PAH, DRO													
PAH, DRO, Lead													
PAH, TPH													
PAH, TPH, Lead													
PAH, TPH, Lead, TOC													
No. of Bottles/ Vials:	2	2	2	2	2	2	2	2	2	2	2	2	2

LABORATORY NAME: General Engineering Laboratory
 LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417
 PHONE NO: (803) 556-0171
 OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS: 9805294-19, 9805295-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11

UNOUSHED BY: <i>[Signature]</i>	Date/Time: 5/11/98	RECEIVED BY: <i>[Signature]</i>	Date/Time: 5/11/98	TOTAL NUMBER OF CONTAINERS: 52	Cooler Temperature: 40C
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>			
RELINQUISHED BY: <i>[Signature]</i>	Date/Time: 11/30	COMPANY NAME: <i>[Signature]</i>	Date/Time: 1600		
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>			
UNOUSHED BY: <i>[Signature]</i>	Date/Time: 5/11/98	RECEIVED BY: <i>[Signature]</i>	Date/Time: 5/11/98	TOTAL NUMBER OF CONTAINERS: 131	Cooler Temperature: 40C
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>			
RELINQUISHED BY: <i>[Signature]</i>	Date/Time: 11/30	COMPANY NAME: <i>[Signature]</i>	Date/Time: 1600		
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>			



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Services Any Business International Corporation

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CHAIN OF CUSTODY RECORD

57

COC NO.: GAB 218

PROJECT NAME: Fort Stewart New CAP Part A UST Investigation

8805

PROJECT NUMBER: 01-0331-04-9205-200

PROJECT MANAGER: Patty Stoll

Supplier Signature

Printed Name

Sandra L. Lavelle

[illegible]

COMPANY NAME: Shaw Brothers

DATE/TIME: 5/11/98

RECEIVED BY: MONNE FRANKEL

COMPANY NAME: _____

RECEIVED BY:	DATE:	RELINQUISHED BY:
	11/50	

COMPANY NAME:	ST/1/96	COMPANY NAME:	
---------------	---------	---------------	--

INQUIRED BY:	Date/Time	RECEIVED BY:
	11/90	

COMPANY NAME:	1/6/20	5/11/18	COMPANY NAME:
---------------	--------	---------	---------------

TOTAL NUMBER OF CONTAINERS:		12058
Cooler ID:	Cooler Temperature:	40.0
FEDEX NUMBER:		

LABORATORY NAME:
General Engineering Laboratory

LABORATORY ADDRESS:
2040 Savage Road
Charleston, SC 29417

275

CLOSURE REPORT ADDENDUM
UST #94, FACILITY ID. NO. 9-089076

MANIFESTS

TAB 9

Excavation of Contaminated Soil and Supporting Manifests

All contaminated soil removed during the entire project (i.e., all USTs removed under contract with ACE, to include clean and non-clean closures) was tested and transported to Kedesh, Inc., Highway 84, Ludowici, GA 31316. The Installation has records of all manifests and weight tickets for this project. However, site/UST specific information is not available. A package including all the manifests for this project were forwarded to GA EPD per request in an August 14, 1998 correspondence reference Fort Stewart's former UST #207A, Building 230, Facility Identification Number 9089039.

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

Name: Thomas C. Fry

Title: Chief, Environmental
Branch

Signature: Thomas C. Fry Date: 09/23/98