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

CLOSURE REPORT

WASTE OIL TANK
BUILDING 1175, TANK 45
FACILITY ID NUMBER: 9-089054*2
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

OCTOBER 1996

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

US Army Corps of Engineers

Delivery Order 0101
Ft. Stewart, Hinesville, Georiga
Underground Storage Tank Removal and Closure

Table of Contents

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.

Resubmitted: Thomas C. Fry Date: 03/03/99
Signature: ORIGINAL SIGNED Date: NOV 1996

2. UST System Site Location:

Facility Name:	Ft. Stewart, GA FAC 1175		
Street Address:	FAC 1175		
	Ft. Stewart	GA	31314-5000
	(city)	(state)	(zip code)
Facility ID#	9-089054		

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: DFB Date: 10/29/96

4. Site-specific Hydrogeology:

Depth to Groundwater ~8' ft. if encountered

☐ Not Applicable

5. Site Map: Include the following items on an attached site map: **REFER TO TAB 5**

- Tank Pit Area
- Sewer Lines (if present)
- Sample Locations (with sample numbers and depths)
- Scale 1/4 in = 1 ft
- Piping Trenches
- Water Lines
- North Arrow
- Dispensers
- Tanks with thier ID#s, corresponding to the Notification Form 7530-1

6. Tank Removal

- Date of Removal: 9-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
45	500	Waste Oil

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

- Attach Amended Notification Form 7530-1 **REFER TO TAB 6**
- Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

7. Laboratory Analytical Data: The following items must be included on attached copies **REFER TO TAB 7**

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

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

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

9. Excavation and Treatment/Disposal of Contaminated Soil:

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

43.36 Tons OR _____ yd^3

☐ Not Applicable

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

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

OR

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

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

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

☒ Not Applicable

SEE TAB 7, 10

11. Conclusions or Recommendations: Choose one.

☒ Clean Closure, thus No Further Action is Required.

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

TAB 4

SITE PHOTOGRAPHS

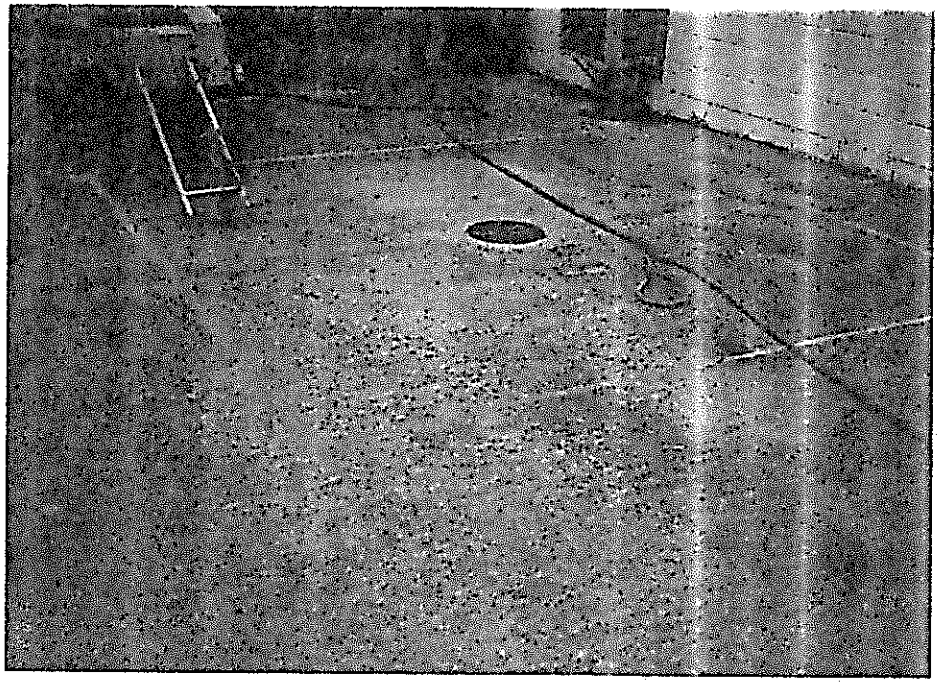


Photo 1. The Tank 45 site just prior to concrete cutting, breaking and removal.

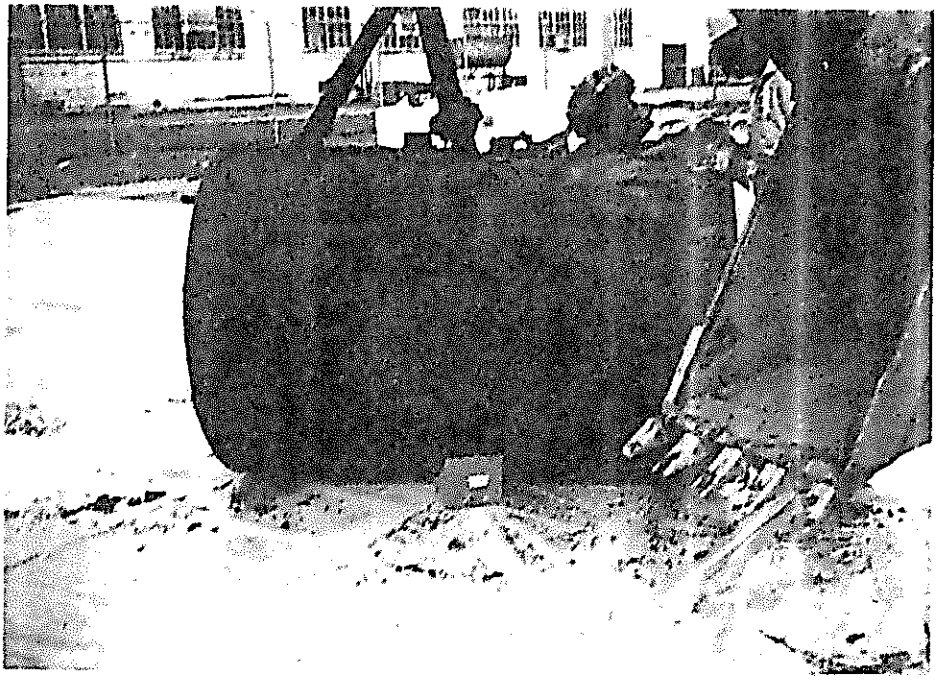
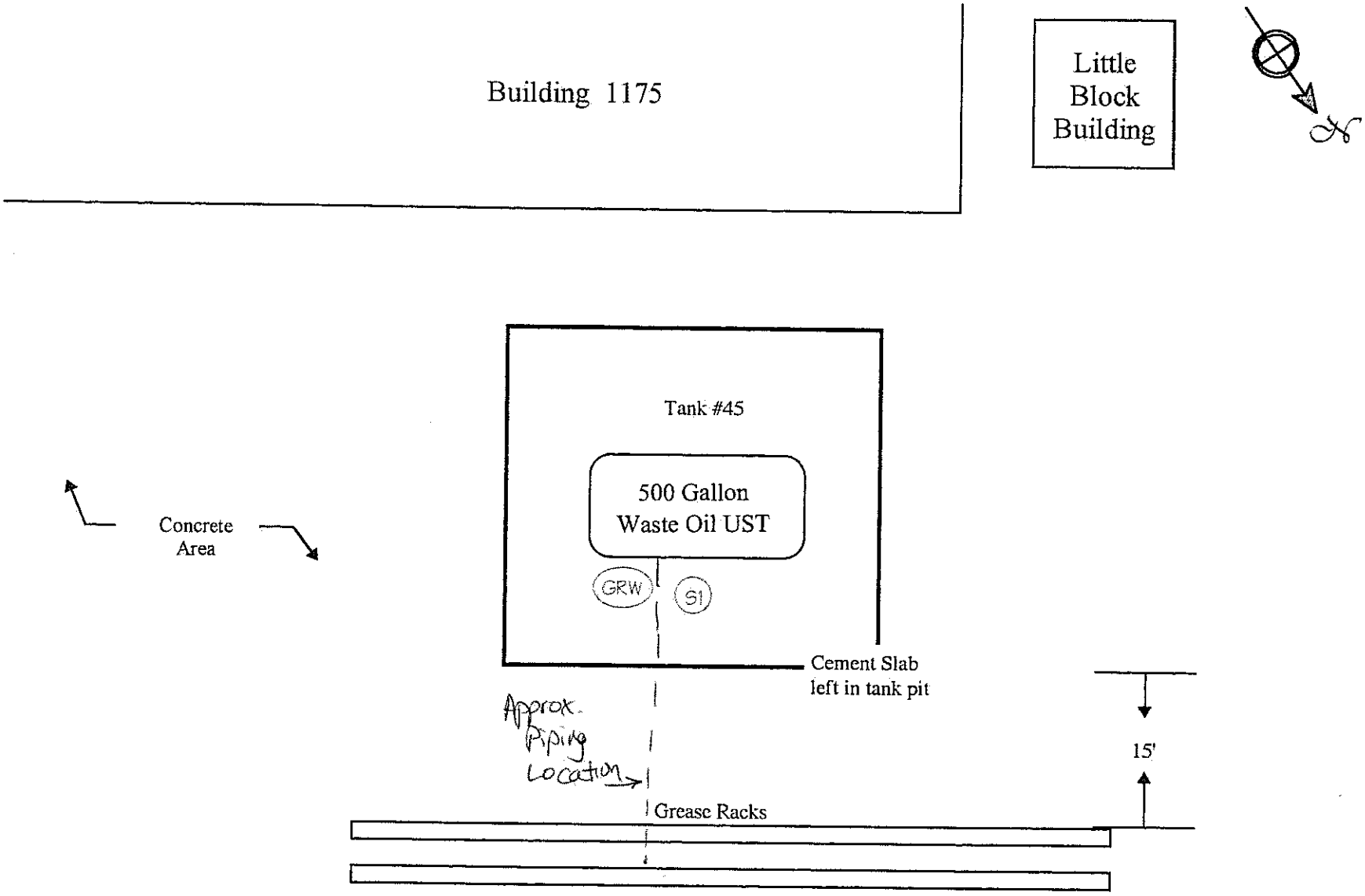


Photo 2. Tank 45 after removal from the tank pit.

TAB 5

SITE MAPS



LEGEND

(S1) Location of Closure Sample

(GRW) Location of Groundwater Sample

ANDERSON COLUMBIA
Environmental, Inc.
P.O. BOX 1386, LAKE CITY, FLORIDA 32056-1386 PHONE: (904) 755-1196 FAX: (904) 758-9050

DR. AJR DR. APP. _____

DATE: 2 August 96 SCALE: 1/4" = 1'

Sampling Map - Tank 45
Building 1175
Ft. Stewart, Georgia
Delivery Order 101
FIGURE NO.: 1

FacID#9-089054

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-089054

OWNER'S ID: 197

INITIAL DATE RECEIVED: 5/6/86

DATE AMENDED LAST:

NOTIFICATION TYPE: [ ] New [X] Amended [X] 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 1175
Street Address : FAC 1175
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: Longitude:
Phone :

OWNER TYPE: [X] Federal [ ] State [ ] Local [ ] Commercial [ ] Private

FACILITY TYPE (S):

[ ] Gas Station
[ ] Petroleum Dist
[ ] Air Tax (Airport)
[ ] Aircraft Owner
[ ] Auto Dealership
[ ] Railroad
[ ] Hospital

[ ] Local Government
[ ] State Government
[ ] Fed Non-Military
[X] Fed Military
[ ] Commercial
[ ] Industrial
[ ] Educational

[ ] Contractor
[ ] Truck/Transport
[ ] Utilities
[ ] Farm
[ ] Residential
[ ] Other

CONTACT PERSON IN CHARGE OF TANK (S):

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

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY: **FACILITY ID NUMBER:**

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

Primary Financial Responsibility Mechanism (check one)

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

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

Financial Responsibility Provider (primary):

Name: US Army

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

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

Deductible Financial Responsibility, if any: (check one)

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

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

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

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

Financial Responsibility Provider (deductible):

Name: _____

Address: _____ City: _____ State: _____

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089054				
TANK ID	45				
Status of Tank					
Currently in Use	x				
Temp. Out of Use					
Perm. Out of Use					
Date of Installation	1-Jan-83				
Age	13				
Est. Total Capacity	500				
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel	x				
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	x				
Fiberglass					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, Explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	x				
Propane					
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089054									
TANK ID	45									
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	7/2/96	7-2-96								
Est. Date Closed	7/9/96	7-9-96								
Removed from Ground	X									
Closed in Ground		X								
Filled with Iner. Mat.										
Change in Service										
Site Assessment Compl.										
Leak Detected										
Installation										
Certified by Manufac.										
Certified by Imple. Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Certified by Imple. Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Tank Tightness Testing										
Inventory Controls										
SIR										
Automatic Tank Guaging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Guaging										
Vapor Monitoring										
Inter. Mon./Sec. Cont.										
Auto. Line Leak Detect.										
Line Tightness Testing										
Other Method										
Other Description										
Spill and Overfill										
Date Overfill Device										
Date Spill Device										
Installer Certification										
Name										
Position										
Company										
Date										

TAB 6

FIELD ASSESSMENT METHODS (Tank Removal)

SOIL SAMPLE

One (1) soil sample for analytical testing was collected by Anderson Columbia Environmental, Inc. (ACE) personnel two (2) feet below the center of the excavated tank. The soil sample was collected into precleaned, labeled laboratory sample bottles and immediately placed on ice. The sample was 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 of the excavation and from the bottom of the excavated 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 membrane 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 to equilibrate for approximately 15 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 SAMPLE

Upon reaching the water table, one (1) groundwater sample was collected using a disposable Teflon bailer. The groundwater sample was collected into precleaned, labeled laboratory sample bottles and immediately placed on ice. The sample was shipped under Chain of Custody to Ecosys Laboratory Services.

CLOSURE REPORT
UST #45, FACILITY ID. NO. 9-089054

CLOSURE OF PIPING
TAB 6

The undersigned certifies that the piping associated with former Tank #45, Building 1172/1175, Facility Identification Number 9-089054, 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 ends located on the grease rack).

The undersigned also certifies that the piping at this facility was associated with Tank #45, which was used for storage of waste oil. The piping was not greater than 25 feet. Therefore, in accordance with GUST Rules, sampling is not required.

Name: Thomas C. Fry Title: Acting Chief, Environmental & Natural Division

Signature: Thomas C. Fry Date: 03/03/99

TAB 7

ANALYTICAL DATA

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Number 45
Building Number 1175

Method / **Sample ID** / *unit*	9073 **TRPH** ppm	9071A **TRPH** ppm	8020A **BTEX** ppb	8270B **Semi-Volatile Organics** ppb
45-T1-S1		545	bdl	bdl
45-T1-GW			bdl	1670
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and these tanks are within 1500 feet of a public water well (but greater than 500 feet from the well). These analytical results should be compared with Table A, >500 feet to withdrawal point on the sheet that follows.

43.36 tons of petroleum contaminated soil was removed from the Tank 45 pit.

Complete Data Package Follows

Table A

Petroleum Constituents and Soil Threshold Levels[a]

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

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA[b] (Where public water supplies exist within 2.0 miles and/or non-public supplies exist within 0.5 miles)		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA[c] (Where public water supplies exist within 1.0 mile and/or non-public supplies exist within 0.25 mile)	
VOLATILE ORGANIC COMPOUNDS	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
Benzene[g]	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

Petroleum Constituents and Soil Threshold[a] Levels

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

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

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

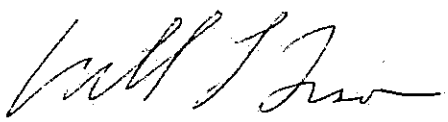
TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO: Commander, Savannah District US Army Corps of Engineers ATTN: CESAS-PM-H Mr. Brent Rose P.O. Box 889 Savannah, GA 31402-0889	**FROM:** Director (CESAD-ET-EL) SAD Laboratory USACE 611 South Cobb Drive Marietta, GA 30060-3112
PROJECT: Ft. Stewart	**REQN NO:** PMS-96-109 **W.O. NO:** 7996

SUBJECT: Chemical Analysis

1. Enclosed is our report of analytical test results and chain of custody forms for three samples collected 11 July 1996 from Ft. Stewart.

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

SUBMITTED BY:	**SIGNATURE**	**DATE:**
WILLIAM L. TISON, P. E. Director, SAD Laboratory		14 Aug 1996

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

District - SAVANNAH
Date Received - 96/07/11
Date Reported - 96/08/14 08:03:53

FT. STEWART ARMY AF
Requisition - PMS-96-109
Work Order - 7996 Job Number - 4004

Lab #	Field ID	Date Sampled	Time Sampled
29483	#45-T1-S1	96/07/09	17:15

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	86.30	%	ECO	96/07/16
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/23
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/02
TRPH	545.0	MG/KG	ECO	96/07/17

*NOTE: See Attached

Sampled by District Personnel

Checked by: ATP

Signed by:

Balila Nsoa for

Blaise Willis
Chemist

Sheet 1 of 3

Lab #	Field ID	Date Sampled	Time Sampled
184	#45-T1-GW	96/07/09	17:20

Test Performed	Result	Units	Tested By	Test Date
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/23
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/08/02

*NOTE: See Attached

Sampled by District Personnel

Checked by: ATP

Signed by:

Blaise Willis
Chemist

Sheet 2 of 3

Lab #	Field ID	Date Sampled	Time Sampled
20485	TRIP BK #9	96/07/09	00:00

Test Performed	Result	Units	Tested By	Test Date
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/23

*NOTE: See Attached

Sampled by District Personnel

Checked by: ATP

Signed by:

Blaise Thorn for

Blaise Willis
Chemist

Sheet 3 of 3

Temp 7°

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
CHAIN OF CUSTODY RECORD

Page 1 of 1

Job # 4004

Project No.	Project Name
#8101	FT. STEWART

Samplers (Signature): Thomas L. Kennedy

Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	8020	9010	9073				Remarks:
#45-T1-S1	7-9-96	17:15			TRENCH PIT	3	-	✓	✓	✓		2483		These samples were
#45-T1-GW	7-9-96	17:20			"	3	HCl	✓	✓				84	collected on 7-9-96.
(*) TRIPBK-#9	7-9-96	@ Volatiles			D.I. WATER	2	HCl	✓					85	Soil & Groundwater
Temp. Vile	7-9-96				"	1	HCl							Samples

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Thomas L. Kennedy	7-10-96			7/11/96 0900	
Relinquished by:	Date / Time	Received by: EB&S	Relinquished by:	Date / Time	Remarks:
Relinquished by:	Date / Time	Received by:			

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

DATE: 7/11/96

Number of coolers 1 Returned cooler(s) to: (D)

PROJECT: Ft. Stewart W.O.# _____ JOB# 4004

Coolers(s) opened by (print name) T Ben C McDonald (sign) [signature]

1. Did cooler come with shipping slip? [X] yes [ ] no
If yes, enter Tracking Number here 128 226 565 5

2. Were custody seals on out side of cooler? [X] yes [ ] no
How many? 4 Date on seal(s) 7/10/96 Name on seal(s) L.K.

3. Were custody seals unbroken upon receipt? [X] yes [ ] no

4. Did you screen sample(s) for "Radioactivity"? [X] yes [ ] no

5. Were custody papers filled out properly? (ink,signed,etc.,) [X] yes [ ] no

6. Temperature of sample(s) upon receipt: 7C

7. Describe cooler packing: Styro-Foam Pix

8. Did all sample containers arrive unbroken? [X] yes [ ] no

9. Were the sample containers sealed in separate plastic bags? [X] yes [ ] no

10. Were labels on containers in good condition and agree with Custody paper? [X] yes [ ] no

11. Were correct containers used for the test(s) indicated? [X] yes [ ] no

12. Were correct preservatives added to sample(s)? [ ] yes [ ] no [X] Blank

13. Was a sufficient amount of sample sent for test? [X] yes [ ] no

14. Were bubbles absent in Volatile sample(s)? [ ] yes [X] no [ ] N/A
If no, list field ID# 29485 → TRIP Bk #9

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

16. Number of Samples: 3 Sample Type: [ ]soil [X]water [ ]other _____

SAMPLE ANALYSIS PERFORMED BY: EA Eng TAT Regular

COMMENTS: _____

17. Did you sign custody papers in the appropriate place? [X] yes [ ] no

LAB NUMBER(S): 29483-85

SIGNATURE: [signature]

ECOSYS
LABORATORY SERVICES

ANALYTICAL REPORT

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

Client Code	29112130
Ledger Number	107920
P.O. Number	
Date Received	07/12/96
Time Received	10:31
Reporting Date	08/13/96

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

Lab Sample ID	AB35819	**Client Site #**	29483
Project #	4004	**Client Sample #**	#45-T1-S1
Project Name	FT. STEWART		
Sampling Date/Time	07/09/96 17:15		

Sample Comment Results are reported on a dry weight basis. The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.

SEMI (GC/MS) SOIL — **Prep Date** 08/01/96 — **Batch** 0802960002

METHOD	ANALYTE	TEST CODE	*RESULT*	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	PHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	108-95-2	GOR	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	$06013	*Below MDL*	1273	ug/Kg	3.3	111-44-4	GOR	08/02/96
8270B	2-CHLOROPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	95-57-8	GOR	08/02/96
8270B	1,3-DICHLOROBENZENE	$06013	*Below MDL*	1273	ug/Kg	3.3	541-73-1	GOR	08/02/96
8270B	1,4-DICHLOROBENZENE	$06013	*Below MDL*	1273	ug/Kg	3.3	106-46-7	GOR	08/02/96
8270B	1,2-DICHLOROBENZENE	$06013	*Below MDL*	1273	ug/Kg	3.3	95-50-1	GOR	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	$06013	*Below MDL*	1273	ug/Kg	3.3	108-60-1	GOR	08/02/96
8270B	2-METHYLPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	95-48-7	GOR	08/02/96
8270B	4-METHYLPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	106-44-5	GOR	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	$06013	*Below MDL*	1273	ug/Kg	3.3	621-64-7	GOR	08/02/96
8270B	HEXACHLOROETHANE	$06013	*Below MDL*	1273	ug/Kg	3.3	67-72-1	GOR	08/02/96
8270B	NITROBENZENE	$06013	*Below MDL*	1273	ug/Kg	3.3	98-95-3	GOR	08/02/96
8270B	ISOPHORONE	$06013	*Below MDL*	1273	ug/Kg	3.3	78-59-1	GOR	08/02/96
8270B	2-NITROPHENOL	$06013	*Below MDL*	2547	ug/Kg	3.3	88-75-5	GOR	08/02/96
8270B	2,4-DIMETHYLPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	105-67-9	GOR	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	$06013	*Below MDL*	1273	ug/Kg	3.3	111-91-1	GOR	08/02/96
8270B	2,4-DICHLOROPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	120-83-2	GOR	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	$06013	*Below MDL*	1273	ug/Kg	3.3	120-82-1	GOR	08/02/96
8270B	NAPHTHALENE	$06013	*Below MDL*	1273	ug/Kg	3.3	91-20-3	GOR	08/02/96
8270B	4-CHLOROANILINE	$06013	*Below MDL*	1273	ug/Kg	3.3	106-47-8	GOR	08/02/96
8270B	HEXACHLOROBUTADIENE	$06013	*Below MDL*	1273	ug/Kg	3.3	87-68-3	GOR	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	$06013	*Below MDL*	2547	ug/Kg	3.3	59-50-7	GOR	08/02/96
8270B	2-METHYLNAPHTHALENE	$06013	*Below MDL*	1273	ug/Kg	3.3	91-57-6	GOR	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	$06013	*Below MDL*	1273	ug/Kg	3.3	77-47-4	GOR	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	88-06-2	GOR	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	$06013	*Below MDL*	1273	ug/Kg	3.3	95-95-4	GOR	08/02/96
8270B	2-CHLORONAPHTHALENE	$06013	*Below MDL*	1273	ug/Kg	3.3	91-58-7	GOR	08/02/96

Lab Sample ID	AB35819	**Client Site #**	29483
Project #	4004	**Client Sample #**	#45-T1-S1
Project Name	FT. STEWART		
Sampling Date/Time	07/09/96 17:15		

Sample Comment Results are reported on a dry weight basis. The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.

SEMI (GC/MS) SOIL **Prep Date** 08/01/96 **Batch** 0802960002

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	2-NITROANILINE	$06013	*Below MDL*	1273	ug/Kg	3.3	88-74-4	GOR	08/02/96
8270B	DIMETHYL PHTHALATE	$06013	*Below MDL*	1273	ug/Kg	3.3	131-11-3	GOR	08/02/96
8270B	ACENAPHTHYLENE	$06013	*Below MDL*	1273	ug/Kg	3.3	208-96-8	GOR	08/02/96
8270B	2,6-DINITROTOLUENE	$06013	*Below MDL*	1273	ug/Kg	3.3	606-20-2	GOR	08/02/96
8270B	3-NITROANILINE	$06013	*Below MDL*	1273	ug/Kg	3.3	99-09-2	GOR	08/02/96
8270B	ACENAPHTHENE	$06013	*Below MDL*	1273	ug/Kg	3.3	83-32-9	GOR	08/02/96
8270B	2,4-DINITROPHENOL	$06013	*Below MDL*	6367	ug/Kg	3.3	51-28-5	GOR	08/02/96
8270B	4-NITROPHENOL	$06013	*Below MDL*	6367	ug/Kg	3.3	100-02-7	GOR	08/02/96
8270B	DIBENZOFURAN	$06013	*Below MDL*	1273	ug/Kg	3.3	132-64-9	GOR	08/02/96
8270B	2,4-DINITROTOLUENE	$06013	*Below MDL*	1273	ug/Kg	3.3	121-14-2	GOR	08/02/96
8270B	DIETHYL PHTHALATE	$06013	*Below MDL*	1273	ug/Kg	3.3	84-66-2	GOR	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	$06013	*Below MDL*	1273	ug/Kg	3.3	7005-72-3	GOR	08/02/96
8270B	FLUORENE	$06013	*Below MDL*	1273	ug/Kg	3.3	86-73-7	GOR	08/02/96
8270B	4-NITROANILINE	$06013	*Below MDL*	1273	ug/Kg	3.3	100-01-6	GOR	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	$06013	*Below MDL*	6367	ug/Kg	3.3	534-52-1	GOR	08/02/96
8270B	N-NITROSODIPHENYLAMINE	$06013	*Below MDL*	1273	ug/Kg	3.3	86-30-6	GOR	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	$06013	*Below MDL*	1273	ug/Kg	3.3	101-55-3	GOR	08/02/96
8270B	HEXACHLOROBENZENE	$06013	*Below MDL*	1273	ug/Kg	3.3	118-74-1	GOR	08/02/96
8270B	PENTACHLOROPHENOL	$06013	*Below MDL*	6367	ug/Kg	3.3	87-86-5	GOR	08/02/96
8270B	PHENANTHRENE	$06013	*Below MDL*	1273	ug/Kg	3.3	85-01-8	GOR	08/02/96
8270B	ANTHRACENE	$06013	*Below MDL*	1273	ug/Kg	3.3	120-12-7	GOR	08/02/96
8270B	DI-N-BUTYL PHTHALATE	$06013	*Below MDL*	1273	ug/Kg	3.3	84-74-2	GOR	08/02/96
8270B	FLUORANTHENE	$06013	*Below MDL*	1273	ug/Kg	3.3	206-44-0	GOR	08/02/96
8270B	PYRENE	$06013	*Below MDL*	1273	ug/Kg	3.3	129-00-0	GOR	08/02/96
8270B	BUTYL BENZYL PHTHALATE	$06013	*Below MDL*	1273	ug/Kg	3.3	85-68-7	GOR	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	$06013	*Below MDL*	2547	ug/Kg	3.3	91-94-1	GOR	08/02/96
8270B	BENZO(A)ANTHRACENE	$06013	*Below MDL*	1273	ug/Kg	3.3	56-55-3	GOR	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	$06013	*Below MDL*	1273	ug/Kg	3.3	117-81-7	GOR	08/02/96
8270B	CHRYSENE	$06013	*Below MDL*	1273	ug/Kg	3.3	218-01-9	GOR	08/02/96
8270B	DI-N-OCTYL PHTHALATE	$06013	*Below MDL*	1273	ug/Kg	3.3	117-84-0	GOR	08/02/96
8270B	BENZO(B)FLUORANTHENE	$06013	*Below MDL*	1273	ug/Kg	3.3	205-99-2	GOR	08/02/96
8270B	BENZO(K)FLUORANTHENE	$06013	*Below MDL*	1273	ug/Kg	3.3	207-08-9	GOR	08/02/96
8270B	BENZO(A)PYRENE	$06013	*Below MDL*	1273	ug/Kg	3.3	50-32-8	GOR	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	$06013	*Below MDL*	1273	ug/Kg	3.3	193-39-5	GOR	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	$06013	*Below MDL*	1273	ug/Kg	3.3	53-70-3	GOR	08/02/96
8270B	BENZO(G,H,I)PERYLENE	$06013	*Below MDL*	1273	ug/Kg	3.3	191-24-2	GOR	08/02/96
8270B	2-FLUOROPHENOL (SURR)	$06013	*56*	%	REC	1.0	367-12-4	GOR	08/02/96
8270B	PHENOL-D5 (SURR)	$06013	*46*	%	REC	1.0	13127-88-3	GOR	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*67*	%	REC	1.0	4165-60-0	GOR	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*70*	%	REC	1.0	321-60-8	GOR	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*91*	%	REC	1.0	118-79-6	GOR	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06013	*103*	%	REC	1.0	1718-51-0	GOR	08/02/96
8270B	CARBAZOLE	$06013	*Below MDL*	1273	ug/Kg	3.3	86-74-8	GOR	08/02/96

BTEX (GC) SOIL									
				Prep Date 07/23/96		Batch 072396BW			
8020A	BENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	71-43-2	DTA	07/23/96
8020A	TOLUENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-88-3	DTA	07/23/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	100-41-4	DTA	07/23/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.2	ug/Kg	1.0	1330-20-7	DTA	07/23/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*77*	%	REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*151*	%	REC	1.0	460-00-4	DTA	07/23/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-90-7	DTA	07/23/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	95-50-1	DTA	07/23/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	541-73-1	DTA	07/23/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	106-46-7	DTA	07/23/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.2	ug/Kg	1.0	1634-04-4	DTA	07/23/96
				Prep Date 07/17/96		Batch 071796B			
9071A	TRPH 9071A SOIL	08041	*545*	11.6	mg/Kg	1.0		ML	07/17/96
				Prep Date 07/16/96		Batch 071696			
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	*86.3*	0.1	%	1.0		MN	07/16/96

Lab Sample ID AB35820 **Client Site #** 29484

Project # 4004 **Client Sample #** #45-T1-GW

Project Name FT. STEWART

Sampling Date/Time 07/09/96 17:20

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

Sample Comment Results are reported on a wet weight basis. The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.

SEMI (GC/MS) WATER									
				Prep Date 08/01/96		Batch 0801960004			
8270B	PHENOL	$06113	*Below MDL*	100	ug/L	10.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	$06113	*Below MDL*	100	ug/L	10.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	$06113	*Below MDL*	100	ug/L	10.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	$06113	*Below MDL*	100	ug/L	10.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	$06113	*Below MDL*	100	ug/L	10.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	$06113	*Below MDL*	100	ug/L	10.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	$06113	*Below MDL*	100	ug/L	10.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	$06113	*Below MDL*	100	ug/L	10.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	$06113	*Below MDL*	100	ug/L	10.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	$06113	*Below MDL*	100	ug/L	10.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	$06113	*Below MDL*	100	ug/L	10.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	$06113	*Below MDL*	100	ug/L	10.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	$06113	*Below MDL*	100	ug/L	10.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	$06113	*Below MDL*	200	ug/L	10.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	$06113	*Below MDL*	100	ug/L	10.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	$06113	*Below MDL*	100	ug/L	10.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	$06113	*Below MDL*	100	ug/L	10.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	$06113	*Below MDL*	100	ug/L	10.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	$06113	*405*	100	ug/L	10.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	$06113	*Below MDL*	100	ug/L	10.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	$06113	*Below MDL*	100	ug/L	10.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	$06113	*Below MDL*	100	ug/L	10.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	$06113	*1020*	100	ug/L	10.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	$06113	*Below MDL*	100	ug/L	10.0	77-47-4	GC	08/02/96

Lab Sample ID	AB35820	**Client Site #**	29484
Project #	4004	**Client Sample #**	#45-T1-GW
Project Name	FT. STEWART		
Sampling Date/Time	07/09/96 17:20		

Sample Comment Results are reported on a wet weight basis. The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.

SEMI (GC/MS) WATER **Prep Date** 08/01/96 **Batch** 0801960004

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	2,4,6-TRICHLOROPHENOL	$06113	*Below MDL*	100	ug/L	10.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	$06113	*Below MDL*	100	ug/L	10.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	$06113	*Below MDL*	100	ug/L	10.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	$06113	*Below MDL*	100	ug/L	10.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	$06113	*Below MDL*	100	ug/L	10.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	$06113	*Below MDL*	100	ug/L	10.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	$06113	*Below MDL*	100	ug/L	10.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	$06113	*Below MDL*	100	ug/L	10.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	$06113	*Below MDL*	100	ug/L	10.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	$06113	*Below MDL*	500	ug/L	10.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	$06113	*Below MDL*	500	ug/L	10.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	$06113	*Below MDL*	100	ug/L	10.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	$06113	*Below MDL*	100	ug/L	10.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	$06113	*Below MDL*	100	ug/L	10.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	$06113	*Below MDL*	100	ug/L	10.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	$06113	*Below MDL*	100	ug/L	10.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	$06113	*Below MDL*	100	ug/L	10.0	100-01-6	GC	08/02/96
)B	2-METHYL-4,6-DINITROPHENOL	$06113	*Below MDL*	500	ug/L	10.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	$06113	*Below MDL*	100	ug/L	10.0	86-30-6	GC	08/02/96
8270B	4-BROMOPHENYL PHENYL ETHER	$06113	*Below MDL*	100	ug/L	10.0	101-55-3	GC	08/02/96
8270B	HEXACHLOROBENZENE	$06113	*Below MDL*	100	ug/L	10.0	118-74-1	GC	08/02/96
8270B	PENTACHLOROPHENOL	$06113	*Below MDL*	500	ug/L	10.0	87-86-5	GC	08/02/96
8270B	PHENANTHRENE	$06113	*143*	100	ug/L	10.0	85-01-8	GC	08/02/96
8270B	ANTHRACENE	$06113	*Below MDL*	100	ug/L	10.0	120-12-7	GC	08/02/96
8270B	DI-N-BUTYL PHTHALATE	$06113	*Below MDL*	100	ug/L	10.0	84-74-2	GC	08/02/96
8270B	FLUORANTHENE	$06113	*Below MDL*	100	ug/L	10.0	206-44-0	GC	08/02/96
8270B	PYRENE	$06113	*102*	100	ug/L	10.0	129-00-0	GC	08/02/96
8270B	BUTYL BENZYL PHTHALATE	$06113	*Below MDL*	100	ug/L	10.0	85-68-7	GC	08/02/96
8270B	3,3'-DICHLOROBENZIDINE	$06113	*Below MDL*	100	ug/L	10.0	91-94-1	GC	08/02/96
8270B	BENZO(A)ANTHRACENE	$06113	*Below MDL*	100	ug/L	10.0	56-55-3	GC	08/02/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	$06113	*Below MDL*	200	ug/L	10.0	117-81-7	GC	08/02/96
8270B	CHRYSENE	$06113	*Below MDL*	100	ug/L	10.0	218-01-9	GC	08/02/96
8270B	DI-N-OCTYL PHTHALATE	$06113	*Below MDL*	100	ug/L	10.0	117-84-0	GC	08/02/96
8270B	BENZO(B)FLUORANTHENE	$06113	*Below MDL*	100	ug/L	10.0	205-99-2	GC	08/02/96
8270B	BENZO(K)FLUORANTHENE	$06113	*Below MDL*	100	ug/L	10.0	207-08-9	GC	08/02/96
8270B	BENZO(A)PYRENE	$06113	*Below MDL*	100	ug/L	10.0	50-32-8	GC	08/02/96
8270B	INDENO(1,2,3-CD)PYRENE	$06113	*Below MDL*	100	ug/L	10.0	193-39-5	GC	08/02/96
8270B	DIBENZO(A,H)ANTHRACENE	$06113	*Below MDL*	100	ug/L	10.0	53-70-3	GC	08/02/96
8270B	BENZO(G,H,I)PERYLENE	$06113	*Below MDL*	100	ug/L	10.0	191-24-2	GC	08/02/96
8270B	2-FLUOROPHENOL (SURR)	$06113	*50*	%	REC	1.0	367-12-4	GC	08/02/96
)B	PHENOL-D5 (SURR)	$06113	*26*	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06113	*101*	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06113	*80*	%	REC	1.0	321-60-8	GC	08/02/96

Lab Sample ID AB35820 **Client Site #** 29484
Project # 4004 **Client Sample #** #45-T1-GW
Project Name FT. STEWART
Sampling Date/Time 07/09/96 17:20

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a wet weight basis. The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.								
SEMI (GC/MS) WATER				**Prep Date** 08/01/96			**Batch** 0801960004		
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06113	*100*	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06113	*107*	%	REC	1.0	1718-51-0	GC	08/02/96
8270B	CARBAZOLE	$06113	*Below MDL*	100	ug/L	10.0	86-74-8	GC	08/02/96
BTEX (GC) WATER				**Prep Date** 07/23/96			**Batch** 072396BW		
8020A	ETHYLBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	100-41-4	DTA	07/23/96
8020A	XYLENES (TOTAL)	$08106	*Below MDL*	1.0	ug/L	1.0	1330-20-7	DTA	07/23/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08106	*82*	%	REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08106	*81*	%	REC	1.0	460-00-4	DTA	07/23/96
8020A	CHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	108-90-7	DTA	07/23/96
8020A	1,2-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	95-50-1	DTA	07/23/96
8020A	1,3-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	541-73-1	DTA	07/23/96
8020A	1,4-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	106-46-7	DTA	07/23/96
8020A	TERT-METHYLBUTYL ETHER	$08106	*Below MDL*	1.0	ug/L	1.0	1634-04-4	DTA	07/23/96
8020A	BENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	71-43-2	DTA	07/23/96
8020A	TOLUENE	$08106	*Below MDL*	1.0	ug/L	1.0	108-88-8	DTA	07/23/96

Lab Sample ID AB35821 **Client Site #** 29485
Project # 4004 **Client Sample #** TRIP BK #9
Project Name FT. STEWART
Sampling Date/Time 07/09/96 :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				**Prep Date** 07/23/96			**Batch** 072396BW		
8020A	BENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	71-43-2	DTA	07/23/96
8020A	TOLUENE	$08106	*Below MDL*	1.0	ug/L	1.0	108-88-8	DTA	07/23/96
8020A	ETHYLBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	100-41-4	DTA	07/23/96
8020A	XYLENES (TOTAL)	$08106	*Below MDL*	1.0	ug/L	1.0	1330-20-7	DTA	07/23/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08106	*91*	%	REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08106	*85*	%	REC	1.0	460-00-4	DTA	07/23/96
8020A	CHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	108-90-7	DTA	07/23/96
8020A	1,2-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	95-50-1	DTA	07/23/96
8020A	1,3-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	541-73-1	DTA	07/23/96
8020A	1,4-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	106-46-7	DTA	07/23/96
8020A	TERT-METHYLBUTYL ETHER	$08106	*Below MDL*	1.0	ug/L	1.0	1634-04-4	DTA	07/23/96

Lab Sample ID AB35822 **Client Site #**

Project # 4004 **Client Sample #** METHOD BLANK SOIL

Project Name FT. STEWART

Sampling Date/Time / / :

Sample Comment The holding time for Semi-Volatiles has passed; therefore the results may not be valid for compliance monitoring purposes.

SEMI (GC/MS) SOIL **Prep Date** 08/01/96 **Batch** 0802960002

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	PHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	108-95-2	GC	08/02/96
8270B	BIS(2-CHLOROETHYL) ETHER	S06013	*Below MDL*	330	ug/Kg	1.0	111-44-4	GC	08/02/96
8270B	2-CHLOROPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	95-57-8	GC	08/02/96
8270B	1,3-DICHLOROBENZENE	S06013	*Below MDL*	330	ug/Kg	1.0	541-73-1	GC	08/02/96
8270B	1,4-DICHLOROBENZENE	S06013	*Below MDL*	330	ug/Kg	1.0	106-46-7	GC	08/02/96
8270B	1,2-DICHLOROBENZENE	S06013	*Below MDL*	330	ug/Kg	1.0	95-50-1	GC	08/02/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	S06013	*Below MDL*	330	ug/Kg	1.0	108-60-1	GC	08/02/96
8270B	2-METHYLPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	95-48-7	GC	08/02/96
8270B	4-METHYLPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	106-44-5	GC	08/02/96
8270B	N-NITROSODI-N-PROPYLAMINE	S06013	*Below MDL*	330	ug/Kg	1.0	621-64-7	GC	08/02/96
8270B	HEXACHLOROETHANE	S06013	*Below MDL*	330	ug/Kg	1.0	67-72-1	GC	08/02/96
8270B	NITROBENZENE	S06013	*Below MDL*	330	ug/Kg	1.0	98-95-3	GC	08/02/96
8270B	ISOPHORONE	S06013	*Below MDL*	330	ug/Kg	1.0	78-59-1	GC	08/02/96
8270B	2-NITROPHENOL	S06013	*Below MDL*	660	ug/Kg	1.0	88-75-5	GC	08/02/96
8270B	2,4-DIMETHYLPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	105-67-9	GC	08/02/96
8270B	BIS(2-CHLOROETHOXY)METHANE	S06013	*Below MDL*	330	ug/Kg	1.0	111-91-1	GC	08/02/96
8270B	2,4-DICHLOROPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	120-83-2	GC	08/02/96
8270B	1,2,4-TRICHLOROBENZENE	S06013	*Below MDL*	330	ug/Kg	1.0	120-82-1	GC	08/02/96
8270B	NAPHTHALENE	S06013	*Below MDL*	330	ug/Kg	1.0	91-20-3	GC	08/02/96
8270B	4-CHLOROANILINE	S06013	*Below MDL*	330	ug/Kg	1.0	106-47-8	GC	08/02/96
8270B	HEXACHLOROBUTADIENE	S06013	*Below MDL*	330	ug/Kg	1.0	87-68-3	GC	08/02/96
8270B	4-CHLORO-3-METHYLPHENOL	S06013	*Below MDL*	660	ug/Kg	1.0	59-50-7	GC	08/02/96
8270B	2-METHYLNAPHTHALENE	S06013	*Below MDL*	330	ug/Kg	1.0	91-57-6	GC	08/02/96
8270B	HEXACHLOROCYCLOPENTADIENE	S06013	*Below MDL*	330	ug/Kg	1.0	77-47-4	GC	08/02/96
8270B	2,4,6-TRICHLOROPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	88-06-2	GC	08/02/96
8270B	2,4,5-TRICHLOROPHENOL	S06013	*Below MDL*	330	ug/Kg	1.0	95-95-4	GC	08/02/96
8270B	2-CHLORONAPHTHALENE	S06013	*Below MDL*	330	ug/Kg	1.0	91-58-7	GC	08/02/96
8270B	2-NITROANILINE	S06013	*Below MDL*	330	ug/Kg	1.0	88-74-4	GC	08/02/96
8270B	DIMETHYL PHTHALATE	S06013	*Below MDL*	330	ug/Kg	1.0	131-11-3	GC	08/02/96
8270B	ACENAPHTHYLENE	S06013	*Below MDL*	330	ug/Kg	1.0	208-96-8	GC	08/02/96
8270B	2,6-DINITROTOLUENE	S06013	*Below MDL*	330	ug/Kg	1.0	606-20-2	GC	08/02/96
8270B	3-NITROANILINE	S06013	*Below MDL*	330	ug/Kg	1.0	99-09-2	GC	08/02/96
8270B	ACENAPHTHENE	S06013	*Below MDL*	330	ug/Kg	1.0	83-32-9	GC	08/02/96
8270B	2,4-DINITROPHENOL	S06013	*Below MDL*	1650	ug/Kg	1.0	51-28-5	GC	08/02/96
8270B	4-NITROPHENOL	S06013	*Below MDL*	1650	ug/Kg	1.0	100-02-7	GC	08/02/96
8270B	DIBENZOFURAN	S06013	*Below MDL*	330	ug/Kg	1.0	132-64-9	GC	08/02/96
8270B	2,4-DINITROTOLUENE	S06013	*Below MDL*	330	ug/Kg	1.0	121-14-2	GC	08/02/96
8270B	DIETHYL PHTHALATE	S06013	*Below MDL*	330	ug/Kg	1.0	84-66-2	GC	08/02/96
8270B	4-CHLOROPHENYL PHENYL ETHER	S06013	*Below MDL*	330	ug/Kg	1.0	7005-72-3	GC	08/02/96
8270B	FLUORENE	S06013	*Below MDL*	330	ug/Kg	1.0	86-73-7	GC	08/02/96
8270B	4-NITROANILINE	S06013	*Below MDL*	330	ug/Kg	1.0	100-01-6	GC	08/02/96
8270B	2-METHYL-4,6-DINITROPHENOL	S06013	*Below MDL*	1650	ug/Kg	1.0	534-52-1	GC	08/02/96
8270B	N-NITROSODIPHENYLAMINE	S06013	*Below MDL*	330	ug/Kg	1.0	86-30-6	GC	08/02/96

Lab Sample ID AB35822 **Client Site #**

Project # 4004 **Client Sample #** METHOD BLANK SOIL

Project Name FT. STEWART

Sampling Date/Time / / :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	The holding time for Semi-Volatiles has passed; therefore the results may not be valid for compliance monitoring purposes.								
SEMI (GC/MS) SOIL				**Prep Date** 08/01/96			**Batch** 0802960002		
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
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
)B	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	*70*	%	REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	$06013	*59*	%	REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*79*	%	REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*73*	%	REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*91*	%	REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06013	*116*	%	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
BTEX (GC) SOIL				**Prep Date** 07/23/96			**Batch** 072396BW		
8020A	BENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	71-43-2	DTA	07/23/96
8020A	TOLUENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	108-88-3	DTA	07/23/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	100-41-4	DTA	07/23/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.0	ug/Kg	1.0	1330-20-7	DTA	07/23/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*88*	%	REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*87*	%	REC	1.0	460-00-4	DTA	07/23/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	108-90-7	DTA	07/23/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	95-50-1	DTA	07/23/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	541-73-1	DTA	07/23/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	106-46-7	DTA	07/23/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.0	ug/Kg	1.0	1634-04-4	DTA	07/23/96
				Prep Date 07/17/96			**Batch** 071796B		
9071A	TRPH 9071A SOIL	08041	*Below MDL*	10.0	mg/Kg	1.0		ML	07/17/96

Lab Sample ID AB35823 **Client Site #**

Project # 4004 **Client Sample #** METHOD BLANK WATER

Project Name FT. STEWART

Sampling Date/Time / / :

Sample Comment The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.

SEMI (GC/MS) WATER **Prep Date** 08/01/96 **Batch** 0801960004

METHOD	ANALYTE	TEST CODE	*RESULT*	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	PHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	108-95-2	GC	08/01/96
8270B	BIS(2-CHLOROETHYL) ETHER	S06113	***Below MDL***	10.0	ug/L	1.0	111-44-4	GC	08/01/96
8270B	2-CHLOROPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	95-57-8	GC	08/01/96
8270B	1,3-DICHLOROBENZENE	S06113	***Below MDL***	10.0	ug/L	1.0	541-73-1	GC	08/01/96
8270B	1,4-DICHLOROBENZENE	S06113	***Below MDL***	10.0	ug/L	1.0	106-46-7	GC	08/01/96
8270B	1,2-DICHLOROBENZENE	S06113	***Below MDL***	10.0	ug/L	1.0	95-50-1	GC	08/01/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	S06113	***Below MDL***	10.0	ug/L	1.0	108-60-1	GC	08/01/96
8270B	2-METHYLPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	95-48-7	GC	08/01/96
8270B	4-METHYLPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	106-44-5	GC	08/01/96
8270B	N-NITROSODI-N-PROPYLAMINE	S06113	***Below MDL***	10.0	ug/L	1.0	621-64-7	GC	08/01/96
8270B	HEXACHLOROETHANE	S06113	***Below MDL***	10.0	ug/L	1.0	67-72-1	GC	08/01/96
8270B	NITROBENZENE	S06113	***Below MDL***	10.0	ug/L	1.0	98-95-3	GC	08/01/96
8270B	ISOPHORONE	S06113	***Below MDL***	10.0	ug/L	1.0	78-59-1	GC	08/01/96
8270B	2-NITROPHENOL	S06113	***Below MDL***	20.0	ug/L	1.0	88-75-5	GC	08/01/96
8270B	2,4-DIMETHYLPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	105-67-9	GC	08/01/96
8270B	BIS(2-CHLOROETHOXY)METHANE	S06113	***Below MDL***	10.0	ug/L	1.0	111-91-1	GC	08/01/96
8270B	2,4-DICHLOROPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	120-83-2	GC	08/01/96
8270B	1,2,4-TRICHLOROBENZENE	S06113	***Below MDL***	10.0	ug/L	1.0	120-82-1	GC	08/01/96
8270B	NAPHTHALENE	S06113	***Below MDL***	10.0	ug/L	1.0	91-20-3	GC	08/01/96
8270B	4-CHLOROANILINE	S06113	***Below MDL***	10.0	ug/L	1.0	106-47-8	GC	08/01/96
8270B	HEXACHLOROBUTADIENE	S06113	***Below MDL***	10.0	ug/L	1.0	87-68-3	GC	08/01/96
8270B	4-CHLORO-3-METHYLPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	59-50-7	GC	08/01/96
8270B	2-METHYLNAPHTHALENE	S06113	***Below MDL***	10.0	ug/L	1.0	91-57-6	GC	08/01/96
8270B	HEXACHLOROCYCLOPENTADIENE	S06113	***Below MDL***	10.0	ug/L	1.0	77-47-4	GC	08/01/96
8270B	2,4,6-TRICHLOROPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	88-06-2	GC	08/01/96
8270B	2,4,5-TRICHLOROPHENOL	S06113	***Below MDL***	10.0	ug/L	1.0	95-95-4	GC	08/01/96
8270B	2-CHLORONAPHTHALENE	S06113	***Below MDL***	10.0	ug/L	1.0	91-58-7	GC	08/01/96
8270B	2-NITROANILINE	S06113	***Below MDL***	10.0	ug/L	1.0	88-74-4	GC	08/01/96
8270B	DIMETHYL PHTHALATE	S06113	***Below MDL***	10.0	ug/L	1.0	131-11-3	GC	08/01/96
8270B	ACENAPHTHYLENE	S06113	***Below MDL***	10.0	ug/L	1.0	208-96-8	GC	08/01/96
8270B	2,6-DINITROTOLUENE	S06113	***Below MDL***	10.0	ug/L	1.0	606-20-2	GC	08/01/96
8270B	3-NITROANILINE	S06113	***Below MDL***	10.0	ug/L	1.0	99-09-2	GC	08/01/96
8270B	ACENAPHTHENE	S06113	***Below MDL***	10.0	ug/L	1.0	83-32-9	GC	08/01/96
8270B	2,4-DINITROPHENOL	S06113	***Below MDL***	50.0	ug/L	1.0	51-28-5	GC	08/01/96
8270B	4-NITROPHENOL	S06113	***Below MDL***	50.0	ug/L	1.0	100-02-7	GC	08/01/96
8270B	DIBENZOFURAN	S06113	***Below MDL***	10.0	ug/L	1.0	132-64-9	GC	08/01/96
8270B	2,4-DINITROTOLUENE	S06113	***Below MDL***	10.0	ug/L	1.0	121-14-2	GC	08/01/96
8270B	DIETHYL PHTHALATE	S06113	***Below MDL***	10.0	ug/L	1.0	84-66-2	GC	08/01/96
8270B	4-CHLOROPHENYL PHENYL ETHER	S06113	***Below MDL***	10.0	ug/L	1.0	7005-72-3	GC	08/01/96
8270B	FLUORENE	S06113	***Below MDL***	10.0	ug/L	1.0	86-73-7	GC	08/01/96
8270B	4-NITROANILINE	S06113	***Below MDL***	10.0	ug/L	1.0	100-01-6	GC	08/01/96

Lab Sample ID AB35823 **Client Site #**

Project # 4004 **Client Sample #** METHOD BLANK WATER

Project Name FT. STEWART

Sampling Date/Time / / :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	The holding time for Semi-Volatiles has passed; therefore, the results may not be valid for compliance monitoring purposes.								
SEMI (GC/MS) WATER				**Prep Date** 08/01/96			**Batch** 0801960004		
8270B	2-METHYL-4,6-DINITROPHENOL	$06113	*Below MDL*	50.0	ug/L	1.0	534-52-1	GC	08/01/96
8270B	N-NITROSODIPHENYLAMINE	$06113	*Below MDL*	10.0	ug/L	1.0	86-30-6	GC	08/01/96
8270B	4-BROMOPHENYL PHENYL ETHER	$06113	*Below MDL*	10.0	ug/L	1.0	101-55-3	GC	08/01/96
8270B	HEXACHLOROBENZENE	$06113	*Below MDL*	10.0	ug/L	1.0	118-74-1	GC	08/01/96
8270B	PENTACHLOROPHENOL	$06113	*Below MDL*	50.0	ug/L	1.0	87-86-5	GC	08/01/96
8270B	PHENANTHRENE	$06113	*Below MDL*	10.0	ug/L	1.0	85-01-8	GC	08/01/96
8270B	ANTHRACENE	$06113	*Below MDL*	10.0	ug/L	1.0	120-12-7	GC	08/01/96
8270B	DI-N-BUTYL PHTHALATE	$06113	*Below MDL*	10.0	ug/L	1.0	84-74-2	GC	08/01/96
8270B	FLUORANTHENE	$06113	*Below MDL*	10.0	ug/L	1.0	206-44-0	GC	08/01/96
8270B	PYRENE	$06113	*Below MDL*	10.0	ug/L	1.0	129-00-0	GC	08/01/96
8270B	BUTYL BENZYL PHTHALATE	$06113	*Below MDL*	10.0	ug/L	1.0	85-68-7	GC	08/01/96
8270B	3,3'-DICHLOROBENZIDINE	$06113	*Below MDL*	10.0	ug/L	1.0	91-94-1	GC	08/01/96
8270B	BENZO(A)ANTHRACENE	$06113	*Below MDL*	10.0	ug/L	1.0	56-55-3	GC	08/01/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	$06113	*Below MDL*	20.0	ug/L	1.0	117-81-7	GC	08/01/96
8270B	CHRYSENE	$06113	*Below MDL*	10.0	ug/L	1.0	218-01-9	GC	08/01/96
8270B	DI-N-OCTYL PHTHALATE	$06113	*Below MDL*	10.0	ug/L	1.0	117-84-0	GC	08/01/96
8270B	BENZO(B)FLUORANTHENE	$06113	*Below MDL*	10.0	ug/L	1.0	205-99-2	GC	08/01/96
8270B	BENZO(K)FLUORANTHENE	$06113	*Below MDL*	10.0	ug/L	1.0	207-08-9	GC	08/01/96
8270B	BENZO(A)PYRENE	$06113	*Below MDL*	10.0	ug/L	1.0	50-32-8	GC	08/01/96
8270B	INDENO(1,2,3-CD)PYRENE	$06113	*Below MDL*	10.0	ug/L	1.0	193-39-5	GC	08/01/96
8270B	DIBENZO(A,H)ANTHRACENE	$06113	*Below MDL*	10.0	ug/L	1.0	53-70-3	GC	08/01/96
8270B	BENZO(G,H,I)PERYLENE	$06113	*Below MDL*	10.0	ug/L	1.0	191-24-2	GC	08/01/96
8270B	2-FLUOROPHENOL (SURR)	$06113	*47*	%	REC	1.0	367-12-4	GC	08/01/96
8270B	PHENOL-D5 (SURR)	$06113	*25*	%	REC	1.0	13127-88-3	GC	08/01/96
8270B	NITROBENZENE-D5 (SURR)	$06113	*75*	%	REC	1.0	4165-60-0	GC	08/01/96
8270B	2-FLUOROBIPHENYL (SURR)	$06113	*76*	%	REC	1.0	321-60-8	GC	08/01/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06113	*84*	%	REC	1.0	118-79-6	GC	08/01/96
8270B	TERPHENYL-D14 (SURR)	$06113	*123*	%	REC	1.0	1718-51-0	GC	08/01/96
8270B	CARBAZOLE	$06113	*Below MDL*	10.0	ug/L	1.0	86-74-8	GC	08/01/96
BTEX (GC) WATER				**Prep Date** 07/23/96			**Batch** 072396BW		
8020A	BENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	71-43-2	DTA	07/23/96
8020A	TOLUENE	$08106	*Below MDL*	1.0	ug/L	1.0	108-88-8	DTA	07/23/96
8020A	ETHYLBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	100-41-4	DTA	07/23/96
8020A	XYLENES (TOTAL)	$08106	*Below MDL*	1.0	ug/L	1.0	1330-20-7	DTA	07/23/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08106	*88*	%	REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08106	*91*	%	REC	1.0	460-00-4	DTA	07/23/96
8020A	CHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	108-90-7	DTA	07/23/96
8020A	1,2-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	95-50-1	DTA	07/23/96
8020A	1,3-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	541-73-1	DTA	07/23/96
8020A	1,4-DICHLOROBENZENE	$08106	*Below MDL*	1.0	ug/L	1.0	106-46-7	DTA	07/23/96
8020A	TERT-METHYLBUTYL ETHER	$08106	*Below MDL*	1.0	ug/L	1.0	1634-04-4	DTA	07/23/96

Lab Sample ID AB36265 **Client Site #**
Project # 3997 **Client Sample #** LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	*RESULT*	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER						Prep Date 07/23/96		Batch 072396BW	
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08106	***86***		% REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08106	***92***		% REC	1.0	460-00-4	DTA	07/23/96

Lab Sample ID AB36266 **Client Site #**
Project # 3997 **Client Sample #** MS
Project Name FT. STEWART
Sampling Date/Time / / :

METHOD	ANALYTE	TEST CODE	*RESULT*	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER						Prep Date 07/23/96		Batch 072396BW	
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08106	***89***		% REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08106	***91***		% REC	1.0	460-00-4	DTA	07/23/96

Lab Sample ID AB36267 **Client Site #**
Project # 3997 **Client Sample #** MSD
Project Name FT. STEWART
Sampling Date/Time / / :

METHOD	ANALYTE	TEST CODE	*RESULT*	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER						Prep Date 07/23/96		Batch 072396BW	
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08106	***81***		% REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08106	***83***		% REC	1.0	460-00-4	DTA	07/23/96

Lab Sample ID AB36268 **Client Site #**
Project # 3997 **Client Sample #** LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	*RESULT*	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL						Prep Date 07/23/96		Batch 072396BW	
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	***92***		% REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	***90***		% REC	1.0	460-00-4	DTA	07/23/96

Lab Sample ID AB36269 Client Site #
Project # 3997 Client Sample # MS
Project Name FT. STEWART
Sampling Date/Time / / :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL						Prep Date 07/23/96		Batch 072396BW	
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*84*		% REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*79*		% REC	1.0	460-00-4	DTA	07/23/96

Lab Sample ID AB36270 Client Site #
Project # 3997 Client Sample # MSD
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL						Prep Date 07/23/96		Batch 072396BW	
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*73*		% REC	1.0	98-08-8	DTA	07/23/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*71*		% REC	1.0	460-00-4	DTA	07/23/96

Sample ID AB36643 Client Site #
Project # 4004 Client Sample # MS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL						Prep Date 08/01/96		Batch 0802960002	
8270B	2-FLUOROPHENOL (SURR)	$06013	*57*		% REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	$06013	*46*		% REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*60*		% REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*60*		% REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*85*		% REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06013	*85*		% REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID AB36644 Client Site #
Project # 4004 Client Sample # MSD
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL					Prep Date 08/01/96		Batch 0802960002		
8270B	2-FLUOROPHENOL (SURR)	$06013	*57*		% REC	1.0	367-12-4	GOR	08/02/96
8270B	PHENOL-D5 (SURR)	$06013	*46*		% REC	1.0	13127-88-3	GOR	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*57*		% REC	1.0	4165-60-0	GOR	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*58*		% REC	1.0	321-60-8	GOR	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*79*		% REC	1.0	118-79-6	GOR	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06013	*77*		% REC	1.0	1718-51-0	GOR	08/02/96

Lab Sample ID AB36645 Client Site #
Project # 4004 Client Sample # LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL					Prep Date 08/01/96		Batch 0802960002		
8270B	2-FLUOROPHENOL (SURR)	$06013	*78*		% REC	1.0	367-12-4	GOR	08/02/96
8270B	PHENOL-D5 (SURR)	$06013	*64*		% REC	1.0	13127-88-3	GOR	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*80*		% REC	1.0	4165-60-0	GOR	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*76*		% REC	1.0	321-60-8	GOR	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*99*		% REC	1.0	118-79-6	GOR	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06013	*111*		% REC	1.0	1718-51-0	GOR	08/02/96

Lab Sample ID AB36646 Client Site #
Project # 4004 Client Sample # LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) WATER					Prep Date 08/01/96		Batch 0801960004		
8270B	2-FLUOROPHENOL (SURR)	$06113	*73*		% REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	$06113	*60*		% REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06113	*74*		% REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06113	*73*		% REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06113	*99*		% REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06113	*109*		% REC	1.0	1718-51-0	GC	08/02/96

Lab Sample ID	AB36647	**Client Site #**	
Project #	4004	**Client Sample #**	LCSD
Project Name	FT. STEWART		
Sampling Date/Time	/ /		

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) WATER						**Prep Date** 08/01/96		**Batch** 0801960004	
8270B	2-FLUOROPHENOL (SURR)	$06113	*78*		% REC	1.0	367-12-4	GC	08/02/96
8270B	PHENOL-D5 (SURR)	$06113	*57*		% REC	1.0	13127-88-3	GC	08/02/96
8270B	NITROBENZENE-D5 (SURR)	$06113	*75*		% REC	1.0	4165-60-0	GC	08/02/96
8270B	2-FLUOROBIPHENYL (SURR)	$06113	*70*		% REC	1.0	321-60-8	GC	08/02/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06113	*96*		% REC	1.0	118-79-6	GC	08/02/96
8270B	TERPHENYL-D14 (SURR)	$06113	*107*		% REC	1.0	1718-51-0	GC	08/02/96

13 Aug 96

Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

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

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

U.S. Army Corps of Engineers Work Orde _____ Job # 4604 Chain of Custody Reco

(ER 1110-1-263)

Proj. No.	Project Name	Number of Containers	M8020	M8270	9073					TAT Regular
	Ft. Stewart									
Sampler : (Signature)										
Date	Time	Pres.	Grab	Comp	Site Code/Sample Number					Remarks: SAD NO. / MATRIX
7/9/96	1715				#45-T1-S1	3	V	V	✓					29483 AB35819 Soil Due 7/19
	1720				#45-T1-GW	3	V	V						29484 AB35820 WATER
↓	—				TRIP BK #9	2	V							29485 AB35821 ↓
					methodBlank soil		X	X	X					AB35822
					method Blank water		X	X						AB35823

Sampler Relinquished by:	Date / Time	Received by: (Sig.)	Date / Time	Hazards Associated with Samples	
Relinquished by: (Sig.)	Date / Time 7/12/96	Received by: (Sig.)	Date / Time 7/12/96 10:31		
Relinquished by: (Sig)	Date / Time	Received for Laboratory by: (Sig.)	Date / Time	Remarks at time of receipt: 4°C Ice	
Custody Seal No.		Lab case No.:			

ENG Form 5021-R, Oct 90

Ledger # 10420

Proponent: CEMP-RI

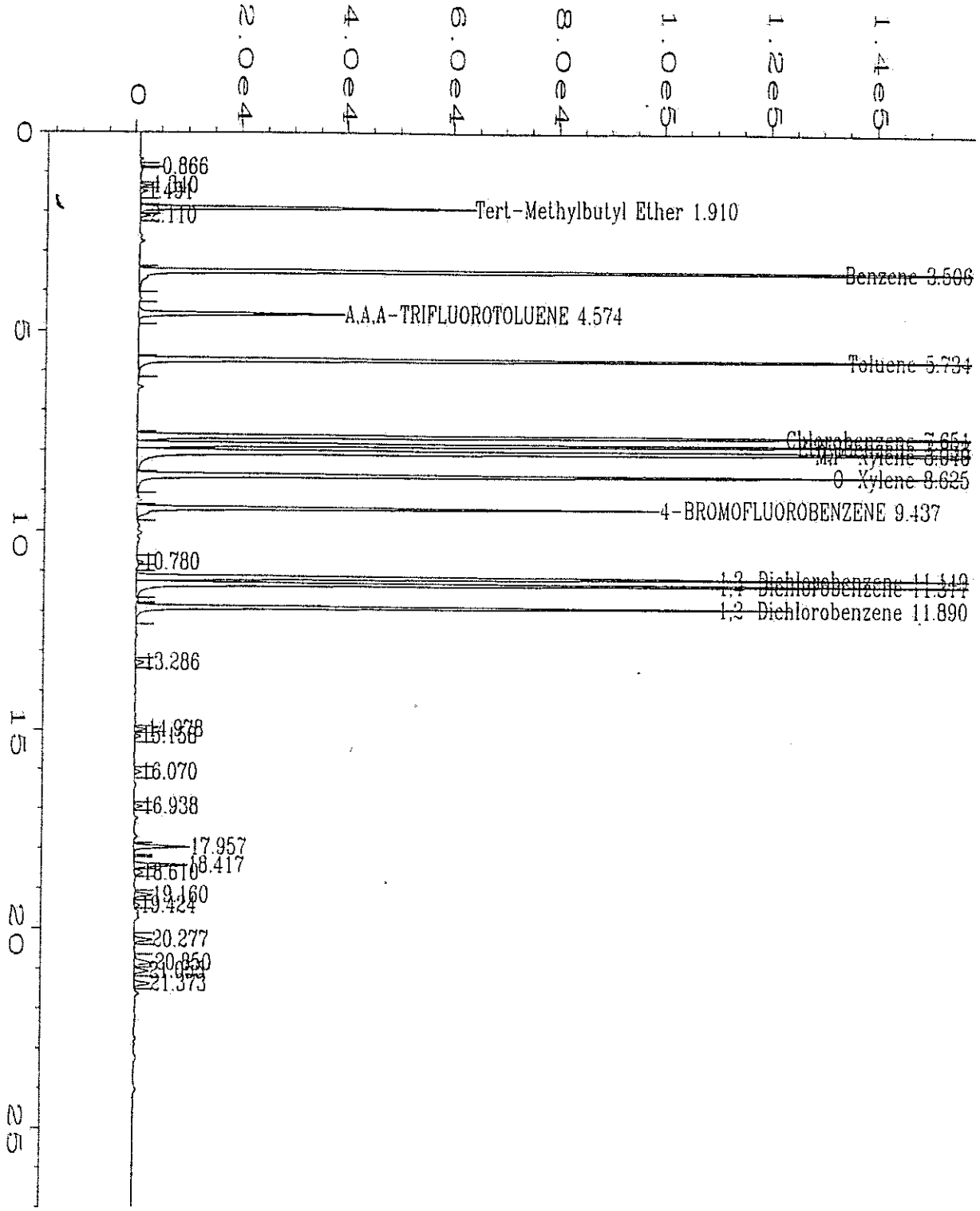
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\B072396\30723F09.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 23 Jul 96 09:08 PM
Report Created on: 01 Aug 96 07:50 AM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\B072396\30723F09.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.910	238907	BV	0.059	1	20.630	Tert-Methylbutyl Ether
3.506	749386	BV	0.056	1	19.141	Benzene
4.574	166125	PV	0.066	1	15.040	A,A,A-TRIFLUOROTOLUENE
5.734	708071	BB	0.059	1	18.848	Toluene
7.651	712023	BV	0.058	1	18.889	Chlorobenzene
7.858	639595	VV	0.061	1	19.032	Ethylbenzene
8.046	1481349	VV	0.062	1	38.313	M,P-Xylene
8.625	628559	VV	0.063	1	19.075	O-Xylene
9.437	381401	PV	0.060	1	14.976	4-BROMOFLUOROBENZENE
11.149	632234	BV	0.060	1	18.687	1,3-Dichlorobenzene
11.311	648232	VV	0.061	1	18.933	1,4-Dichlorobenzene
11.890	487599	VB	0.061	1	20.473	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\B072396\30723F09.D		
Operator	: Doug Anderson	Page Number	: 1
Instrument	: GC3	Vial Number	: 9
Sample Name	: 20ppb 8020 ccv	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 23 Jul 96 09:08 PM	Instrument Method	: 3B061396.MTH
Report Created on	: 01 Aug 96 07:50 AM	Analysis Method	: 3B061396.MTH
Last Recalib on	: 14 JUN 96 10:38 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

BTEX Method Blank Summary

Lab Name:	EcoSys, Inc.	Client:	ACE-SAD
Ledger No(s):	107920		
Batch No:	072396BW	Date Analyzed:	7/23/96
Lab File ID:	30723F10	Time Analyzed:	21:42
Lab Sample ID:	AB35822	Level:	Low
Instrument ID:	GC3	Matrix:	Soil

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

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36268 LCS	30723F11	7/23/96
2	NA	AB36269 MS	30723F12	7/23/96
3	NA	AB36270 MSD	30723F14	7/23/96
4	#45-T1-S1	AB35819	30723F18	7/23/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable

QA/QC Officer

Comments:

Soil BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No: 107920 Matrix Spike/Lab Sample No: AB35736 REF
Batch No: 072396BW AB36269 MS
Lab File ID: 30723F12/30723F14 AB36270 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	16	80		40-160
Toluene	20	ND	16	81		40-160
Ethylbenzene	20	ND	16	81		40-160
m,p-Xylene	40	ND	33	82		40-160
o-Xylene	20	ND	16	82		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Benzene	20	15	77		4		30	40-160
Toluene	20	15	75		7		30	40-160
Ethylbenzene	20	15	76		7		30	40-160
m,p-Xylene	40	31	76		7		30	40-160
o-Xylene	20	15	77		7		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

QA/QC Officer 8/2/96

Comments: _____

BTEX LCS Recoveries (Soil)

Lab Name: EcoSys, Inc.
Ledger No: 107920
Batch No: 072396BW
Lab File ID: 30723F11

Client: ACE-SAD
Laboratory Control Sample No: AB36268
Level (Low/Med): Low

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	18	90		40-160
Toluene	20	19	93		40-160
Ethylbenzene	20	19	93		40-160
m,p-Xylene	40	37	94		40-160
o-Xylene	20	18	92		40-160

* Values outside of QC limits
ND = Not Detected

Spike Recovery: 0 out of 5 outside limits

13 Aug 96
QA/QC Officer

Comments: _____

BTEX Surrogate Recovery Summary

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No(s): 107920
Batch No.: 072396BW Matrix: Soil
GC Column : DB-VXR Level: Low

Lab Sample No.	A,A,A-Trifluorotoluene %Rec	#	4-Bromofluorobenzene %Rec	#	Total Out
AB35822 MB	88		87		0
AB36268 LCS	92		90		0
AB36269 MS	84		79		0
AB36270 MSD	73		71		0
AB35819	77		151		0

Surrogate Recovery Limits: 40-160%

Column to be used to flag recovery values
* Values outside of required QC limits
ND = Not Detected
DO = Diluted Out

13 Aug 96
QA/QC Officer

Comments:

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No: 107920 DFTPP Injection Date: 8/2/96

Lab File ID: DFTPP080296 DFTPP Injection Time: 6:47

Instrument ID: MSD-2 Batch Number: 0802960002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	53.4	
68	Less than 2.0% of mass 69	0.0	
69	Mass 69 relative abundance	63.1	(1)
70	Less than 2.0% of mass 69	0.1	
127	40.0 - 60.0% of mass 198	49.2	
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	6.8	
275	10.0 - 30.0% of mass 198	19.5	
365	Greater than 1% of mass 198	1.7	
441	Present, but less than mass 443	80.4	
442	Greater than 40% of mass 198	58.6	
443	17.0 - 23.0% of mass 442	19.3	(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	7:15 AM
02	NA	AB35822 MB	BNA0501005	08/02/96	11:16 AM
03	NA	AB36645 LCS	BNA0601006	08/02/96	12:09 PM
04	NA	AB36643 MS	BNA0801008	08/02/96	1:57 PM
05	NA	AB36644 MSD	BNA0901009	08/02/96	2:51 PM
06	#45-T1-S1	AB35819	BNA0701007	08/02/96	1:03 PM
07					
08					

NA: Not Applicable

Comments:

13 Aug 96

QA/QC OFFICER

Ecosys, Inc.

ata file : /chem/msd_2.i/2-080296.b/DFTPP080296.d
ab. Id. : DFTPP02
nj Date : 02-AUG-96 06:47 Autotune Date: 31-Jul-96 09:13:5
perator : GORDON Inst ID: msd_2.i
ap Info : 50NG of dft-05-39
isc Info : TUNE FOR INSTRUMENT msd2.i
omment :
ethod : /chem/msd_2.i/2-080296.b/dftpp288.m
eth Date : 02-Aug-1996 06:29
al Date : Cal File:
ls bottle: 1 QC Sample: DFTPP
l Factor: 1.000 Target Version: Target 2.20
ntegrator: HP RTE Compound Sublist: all.sub
ample Type: WATER

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE		RATIO
dftpp					CAS #: 5074-71-5		
7(0.000)	198	412757					100.00(Q)
7.917(0.000)	51	219412			0.00-	0.00	53.16
7.917(0.000)	68	0			0.00-	0.00	0.00
7.917(0.000)	69	260025			0.00-	0.00	63.00
7.917(0.000)	70	240			0.00-	0.00	0.09
7.917(0.000)	127	202892			0.00-	0.00	49.16
7.917(0.000)	197	0			0.00-	0.00	0.00
7.917(0.000)	199	28084			0.00-	0.00	6.80
7.917(0.000)	275	80504			0.00-	0.00	19.50
7.917(0.000)	365	7166			0.00-	0.00	1.74
7.917(0.000)	441	37525			0.00-	0.00	80.37
7.917(0.000)	442	241680			0.00-	0.00	58.55
7.917(0.000)	443	46690			0.00-	0.00	19.32

: Flag Legend

- Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

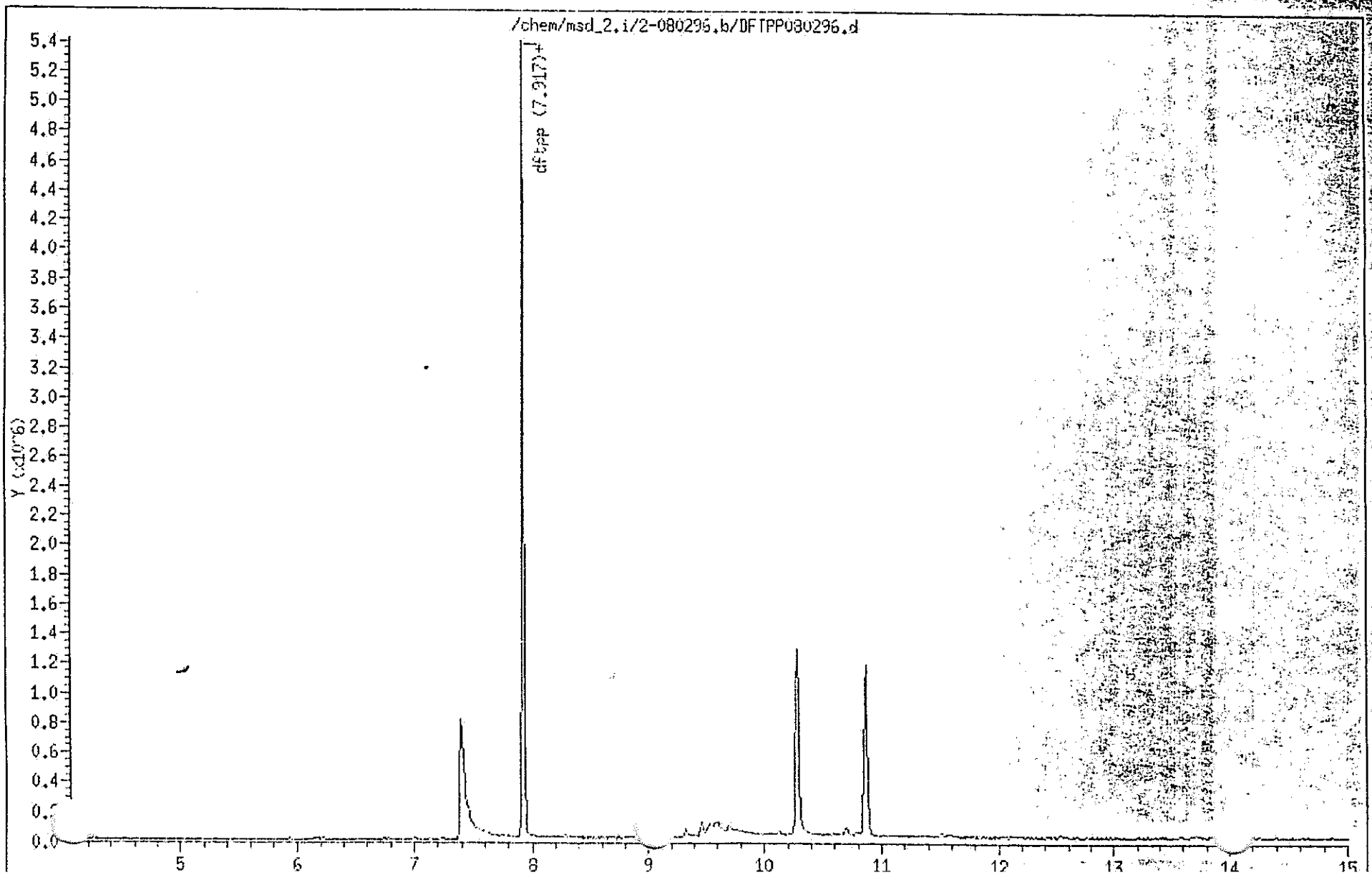
Client SDG: 2-080296.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

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

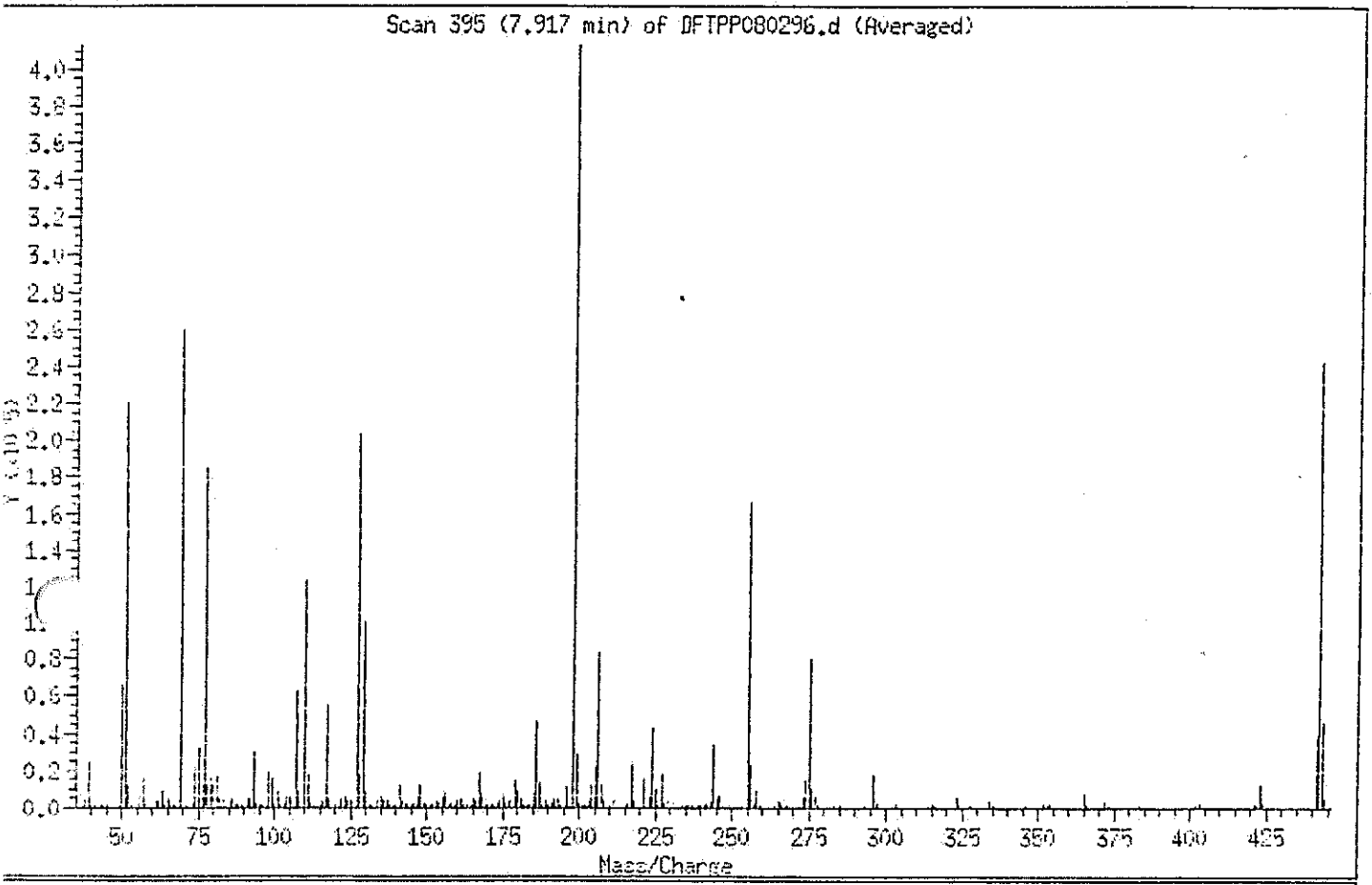
Data File: /chem/msd_2.i/2-080296.b/DFTPP080296.d
Date : 02-AUG-96 06:47
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-080296.b/DFTPP080296.d
Date : 02-AUG-96 06:47
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	53.2
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	63.0
70	Mass 70 relative abundance	0.1
127	Mass 127 relative abundance	49.2
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.8
275	Mass 275 relative abundance	19.5
365	Mass 365 relative abundance	1.7
441	Mass 441 relative abundance	80.4
442	Mass 442 relative abundance	56.6
443	Mass 443 relative abundance	19.3

Date : 02-AUG-96 06:47
Document : msd_2.i
Sample ID : DFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.917 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	1130	124.00	3444	202.00	658	285.00	982
38.00	4679	125.00	2942	203.00	2806	286.00	83
39.00	22786	127.00	202892	204.00	11719	289.00	142
40.00	1187	128.00	17747	205.00	21967	290.00	133
41.00	578	129.00	100052	206.00	84184	291.00	196
44.00	149	130.00	8034	207.00	11272	292.00	361
45.00	1114	131.00	1368	208.00	2887	293.00	904
47.00	293	132.00	834	209.00	939	294.00	452
49.00	449	133.00	165	210.00	656	296.00	17278
50.00	65906	134.00	2951	211.00	3057	297.00	1981
51.00	213412	135.00	7089	212.00	281	298.00	87
52.00	11784	136.00	2798	213.00	297	301.00	280
53.00	303	137.00	3620	215.00	1061	302.00	309
54.00	223	138.00	932	216.00	1938	303.00	1944
55.00	1375	139.00	350	217.00	25322	304.00	540
56.00	6641	140.00	1356	218.00	3045	308.00	283
57.00	15208	141.00	11726	219.00	297	309.00	159
58.00	692	142.00	3284	221.00	15903	310.00	193
59.00	153	143.00	1965	223.00	5474	312.00	85
61.00	2873	144.00	824	224.00	42878	313.00	92
62.00	2757	145.00	659	225.00	10389	314.00	795
63.00	8162	146.00	1817	226.00	1246	315.00	1817
64.00	1068	147.00	5254	227.00	17951	316.00	823
65.00	3387	148.00	12509	228.00	2695	317.00	179
66.00	757	149.00	2349	229.00	3818	321.00	452
67.00	958	150.00	757	230.00	997	322.00	280
69.00	260025	151.00	1232	231.00	1812	323.00	5607
70.00	240	152.00	458	232.00	47	324.00	1059
71.00	74	153.00	3113	233.00	315	326.00	125
72.00	267	154.00	2701	234.00	1206	327.00	1040
73.00	1953	155.00	5564	235.00	1229	328.00	557
74.00	20919	156.00	7992	236.00	1024	329.00	118
75.00	33077	157.00	1535	237.00	1330	332.00	295
76.00	12038	158.00	2049	238.00	223	333.00	537
77.00	184133	159.00	1474	239.00	656	334.00	3590

Data File: /chem/msd_2.i/2-080296.b/DFTPP080296.d

Date : 02-AUG-96 06:47

Instrument : msd_2.i

Sample ID : DFTPP02

Column phase : Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.917 min) Subtraction Scan 392

Base Peak: 198.00

Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
78.00	12023	160.00	3165	240.00	722	335.00	962
79.00	15085	161.00	4336	241.00	978	340.00	70
80.00	11838	162.00	1382	242.00	2319	341.00	502
81.00	16321	163.00	572	243.00	2890	346.00	910
82.00	3765	164.00	714	244.00	33916	347.00	66
83.00	2942	165.00	3608	245.00	4374	351.00	74
84.00	324	166.00	3259	246.00	6704	352.00	1997
85.00	2424	167.00	18262	247.00	1317	353.00	1307
86.00	4497	168.00	7501	248.00	250	354.00	1068
87.00	2013	169.00	1074	249.00	1337	355.00	366
88.00	993	170.00	623	250.00	244	356.00	74
89.00	662	171.00	1155	251.00	457	365.00	7166
91.00	4060	172.00	2090	252.00	188	366.00	1177
92.00	4444	173.00	2102	253.00	797	367.00	85
93.00	29066	174.00	3678	255.00	166010	370.00	215
94.00	1848	175.00	6845	256.00	23412	371.00	329
95.00	337	176.00	2139	257.00	1963	372.00	3065
96.00	894	177.00	3428	258.00	9089	373.00	785
98.00	19944	178.00	502	259.00	1335	374.00	79
99.00	15172	179.00	14275	260.00	94	383.00	814
100.00	1352	180.00	9190	261.00	271	384.00	85
101.00	8718	181.00	4809	262.00	173	390.00	301
102.00	568	182.00	767	264.00	446	391.00	373
103.00	2572	183.00	620	265.00	3426	392.00	301
104.00	6311	184.00	1456	266.00	89	401.00	239
105.00	5560	185.00	7265	267.00	68	402.00	1147
107.00	62517	186.00	46141	268.00	143	403.00	1743
108.00	9117	187.00	12978	270.00	531	404.00	479
110.00	122752	188.00	1383	271.00	386	421.00	1702
111.00	17937	189.00	3466	272.00	711	422.00	1615
112.00	2072	190.00	597	273.00	5305	423.00	11938
113.00	664	191.00	1840	274.00	14575	424.00	2567
115.00	479	192.00	4441	275.00	80504	425.00	216
116.00	3326	193.00	4369	276.00	10404	441.00	37525
117.00	54508	194.00	1002	277.00	5723	442.00	241680

Sample ID : BFTPP02

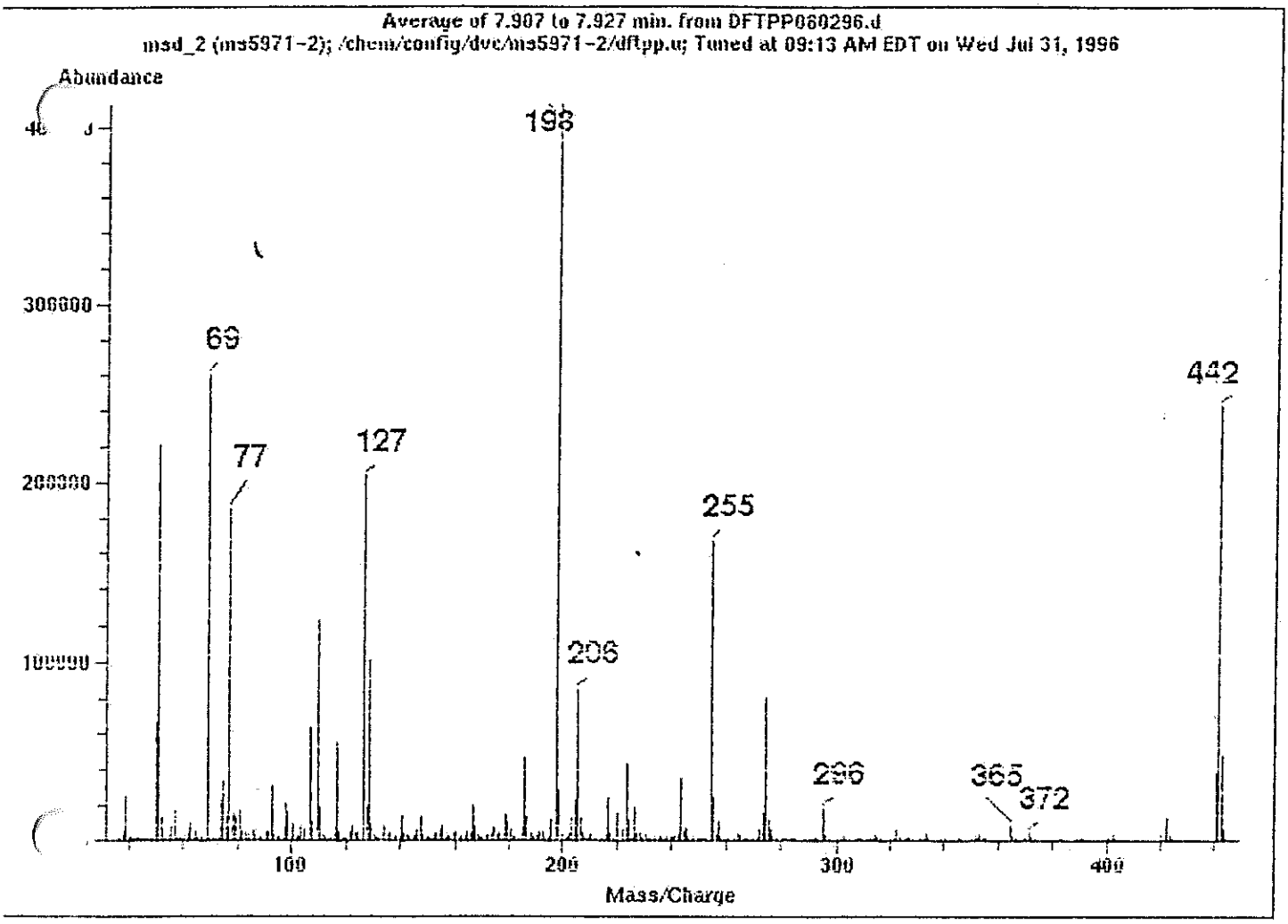
Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.917 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
118.00	4037	195.00	659	278.00	1017	443.00	46690
119.00	273	196.00	10940	279.00	16	444.00	4802
120.00	790	198.00	412757	281.00	75	445.00	251
121.00	340	199.00	28084	282.00	95		
122.00	4492	200.00	2169	283.00	596		
123.00	6976	201.00	1515	284.00	491		



ass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	63.1
70	Less than 2.0% of mass 69	0.1
27	40.0 to 60.0% of mass 198	49.2
97	Less than 1.0% of mass 198	0.0
98	Base peak, 100% relative abundance	100.0
99	5.0 to 9.0% of mass 198	6.8
75	10.0 - 30.0% of mass 198	19.5
65	Greater than 1% of mass 198	1.7
41	Present, but less than mass 443	80.4
42	Greater than 40.0% of mass 198	58.6
43	17.0 - 23.0% of mass 442	19.3

Ecosys, Inc.

INITIAL CALIBRATION DATA

art Cal Date : 28-MAY-93 15:51
d Cal Date : 31-JUL-1996 13:17
ant Method : ISTD
l Curve Type : Averaged
rget Version : Target 2.20
tegrator : HP RTE
thod File : /chem/msd_2.i/2-073196.b/MA-BNA.m
l Date : 01-Aug-1996 06:42 target

libration File Names:
vel 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
vel 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
vel 4: /chem/msd_2.i/2-073196.b/BNA0501006.d
vel 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
vel 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	$\overline{RRF}$	%RSD/R^2
2 line	0.664671	1.065651	1.085731	1.451251	1.378491	1.113161	28.3951
4 nol **	0.927431	1.022611	1.114321	1.166211	1.196291	1.085371	10.1511
5 Bis(2-chloroethyl) ether	1.301831	1.081181	1.219101	1.179901	1.226251	1.201651	6.7011
6 2-Chlorophenol	1.161731	1.220241	1.256661	1.455971	1.319231	1.292771	9.7651
7 1,3-Dichlorobenzene	1.460411	1.470161	1.537751	1.542131	1.546831	1.511471	2.8061
9 1,4-Dichlorobenzene **	1.462661	1.501791	1.562921	1.590461	1.635921	1.550731	4.4601
10 1,2-Dichlorobenzene	1.388791	1.400591	1.467531	1.497261	1.545621	1.459961	4.5141
11 Benzyl alcohol	0.779781	0.920021	0.933841	0.906451	0.841791	0.876391	7.3591
12 2-Methylphenol	0.811761	0.868211	0.908541	1.079491	0.991011	0.931881	11.2961
13 Bis(2-chloroisopropyl) ether	0.907761	0.918531	0.979681	1.168411	1.129561	1.020791	11.8521
14 N-Nitrosodi-n-propylamine *	0.707711	0.693371	0.714801	0.687871	0.691551	0.699061	1.6571
15 4-Methylphenol	0.767991	0.877731	0.950131	1.118571	1.049091	0.952701	14.5201
16 Hexachloroethane	0.639691	0.643931	0.668621	0.685811	0.716901	0.670991	4.7391
18 Nitrobenzene	0.353901	0.391781	0.408171	0.421601	0.415131	0.398121	6.8071
19 Isophorone	0.673251	0.695821	0.727051	0.610491	0.708921	0.683111	6.5991
20 2-Nitrophenol **	0.228711	0.257521	0.271431	0.273291	0.295281	0.265251	9.2341
21 2,4-Dimethylphenol	0.327251	0.385641	0.415781	0.341821	0.386451	0.371391	9.7301
22 Bis(2-chloroethoxy)methane	0.359891	0.376011	0.403691	0.348131	0.393701	0.376271	6.1051
23 2,4-Dichlorophenol **	0.284751	0.336551	0.337171	0.307191	0.299661	0.313061	7.4021
24 Benzoic acid	0.220301	0.182361	0.194241	0.254531	0.239561	0.218201	13.8231
25 1,2,4-Trichlorobenzene	0.368121	0.383521	0.394191	0.381811	0.397161	0.384961	2.9891
27 Naphthalene	1.094111	1.130781	1.187251	1.167541	1.157971	1.147531	3.1481
28 4-Chloroaniline	0.260201	0.314191	0.332191	0.407791	0.375521	0.337991	16.8231
29 Hexachlorobutadiene **	0.227201	0.222301	0.225181	0.219811	0.224101	0.223721	1.2591
30 4-Chloro-3-methylphenol **	0.326261	0.343101	0.366661	0.367811	0.345211	0.349811	5.0111
31 Methylnaphthalene	0.731981	0.745511	0.769391	0.724671	0.752421	0.744721	2.3671
32 achlorocyclopentadiene *	0.203491	0.254601	0.255471	0.284061	0.298141	0.259151	14.0101
33 2,4,6-Trichlorophenol **	0.259441	0.303611	0.332191	0.361731	0.350821	0.321561	12.7891
34 2,4,5-Trichlorophenol	0.333081	0.356231	0.374891	0.395291	0.347411	0.361381	6.7141

Ecosys, Inc.

INITIAL CALIBRATION DATA

tart Cal Date : 28-MAY-93 15:51
nd Cal Date : 31-JUL-1996 13:17
ient Method : ISTD
al Curve Type : Averaged
arget Version : Target 2.20
ntegrator : HP RTE
ethod file : /chem/msd_2.i/2-073196.b/MA-BNA.m
al Date : 01-Aug-1996 06:42 target

alibration File Names:
evel 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
evel 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
evel 4: /chem/msd_2.i/2-073196.b/BNA0401006.d
evel 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
evel 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	%RSD/R^2
36 nloronaphthalene	1.124791	1.191161	1.235481	1.216941	1.249831	1.201641	4.166|
37 2-Nitroaniline	0.315321	0.313741	0.320141	0.326461	0.297721	0.314681	3.399|
38 Dimethyl phthalate	1.534431	1.392111	1.530441	1.549001	1.524361	1.506071	4.272|
39 2,6-Dinitrotoluene	0.324021	0.336011	0.304881	0.295651	0.311311	0.312371	6.129|
42 Acenaphthylene	1.706901	1.839761	1.896271	1.880861	1.925121	1.849561	4.633|
41 3-Nitroaniline	0.201531	0.182921	0.154931	0.228541	0.163851	0.170351	28.130|
43 Acenaphthene **	1.176901	1.209771	1.205931	1.242951	1.257791	1.218671	2.629|
44 2,4-Dinitrophenol *	+++++	0.074691	0.110861	0.130151	0.130431	0.111531	23.503|
47 2,4-Dinitrotoluene	0.359101	0.391771	0.420811	0.389981	0.423621	0.397061	6.650|
45 4-Nitrophenol *	0.115791	0.122011	0.161671	0.147511	0.123391	0.134071	14.621|
46 Dibenzofuran	1.542991	1.605701	1.640291	1.689591	1.718741	1.643461	4.259|
48 Diethyl phthalate	1.571391	1.473491	1.613891	1.531641	1.488341	1.536751	3.699|
50 Fluorene	1.154001	1.250101	1.288551	1.342471	1.387061	1.284441	6.975|
49 4-Chlorophenyl phenyl ether	0.602381	0.614641	0.629561	0.652781	0.676511	0.635181	4.688|
52 4-Nitroaniline	0.117181	0.127111	0.131261	0.136471	0.144221	0.131251	7.720|
51 4,6-Dinitro-2-methylphenol	0.073891	0.099021	0.114281	0.135401	0.133921	0.111111	23.283|
53 N-Nitrosodiphenylamine **	0.472091	0.443301	0.406171	0.414861	0.377111	0.422711	8.592|
54 1,2-Diphenylhydrazine	2.123931	2.097481	2.041611	2.025111	2.171411	2.091911	2.865|
56 4-Bromophenyl phenyl ether	0.295731	0.303231	0.288021	0.313051	0.298341	0.299671	3.099|
57 Hexachlorobenzene	0.337811	0.336081	0.322861	0.333141	0.339271	0.333831	1.961|
58 Pentachlorophenol **	0.107901	0.108031	0.125651	0.145511	0.129211	0.123261	12.854|
60 Phenanthrene	1.210681	1.231951	1.363821	1.465021	1.455171	1.345331	8.929|
61 Anthracene	1.185141	1.205301	1.236751	1.297401	1.291471	1.243211	4.045|
62 Carbazole	0.752831	0.562021	0.557381	0.720861	0.589091	0.636431	14.635|
63 Di-n-butyl phthalate	2.043941	2.007851	1.966481	2.134751	1.871781	2.004961	4.835|
64 oranthene **	1.016211	1.038981	1.227561	1.221071	1.221421	1.145051	9.393|
65 Pyrene	2.397291	2.405901	1.998771	2.019451	2.051391	2.174561	9.571|
67 Butyl benzyl phthalate	1.527481	1.457771	1.268941	1.368051	1.236041	1.371661	8.977|
68 Bis(2-ethylhexyl) adipate	1.258411	1.283241	1.063301	1.204811	1.114291	1.184811	7.922|

Ecosys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-MAY-93 15:51
End Cal Date : 31-JUL-1996 13:17
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 2.20
Integrator : HP RTE
Method file : /chem/msd_2.i/2-073196.b/MA-BNA.m
Cal Date : 01-Aug-1996 06:42 target

Calibration File Names:
Level 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
Level 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
Level 4: /chem/msd_2.i/2-073196.b/BNA0601006.d
Level 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
Level 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	%RSD/R^2
6 3,3'-Dichlorobenzidine	0.178011	0.129331	0.133361	0.142031	0.129781	0.142501	14.3881
71 Benz(a)anthracene	1.147721	1.232071	1.266991	1.293541	1.310181	1.250101	5.1521
72 Bis(2-ethylhexyl) phthalate	2.305141	2.180571	1.922321	2.302961	1.885461	2.119291	9.5981
73 Chrysene	1.179391	1.157701	1.159931	1.129711	1.181421	1.161631	1.7981
74 Di-n-octyl phthalate **	5.966301	5.801271	6.041031	6.446831	5.574621	5.966011	5.4131
75 Benzo(b)fluoranthene	1.461531	1.643951	1.722291	1.847361	2.019471	1.738991	12.0891
76 Benzo(k)fluoranthene	2.054951	1.928601	2.155271	1.921261	1.768231	1.965661	7.4791
77 Benzo(a)pyrene **	1.335551	1.421281	1.454511	1.442991	1.485081	1.427681	3.9591
79 Indeno(1,2,3-cd)pyrene	1.005561	1.174241	1.108801	1.035131	1.050391	1.074821	6.2431
80 Dibenz(a,h)anthracene	0.795691	0.929591	0.907761	0.982831	1.013631	0.925901	9.0741
81 Benzo(g,h,i)perylene	0.913541	1.030651	1.054251	1.011171	1.032721	1.008471	5.4751
1 2-Fluorophenol	1.077191	1.033271	1.061031	1.253521	1.136361	1.112271	7.3671
3 Phenol-d5	0.911151	1.042581	1.040721	1.120151	1.195101	1.061941	9.9531
17 Nitrobenzene-d5	0.404031	0.414541	0.432241	0.439021	0.432681	0.424501	3.4461
35 2-Fluorobiphenyl	1.392561	1.402341	1.449071	1.488081	1.497771	1.445971	3.3211
55 2,4,6-Tribromophenol	0.120961	0.130331	0.141701	0.151141	0.142711	0.137371	8.5801
66 Terphenyl-d14	1.483721	1.552021	1.372061	1.436391	1.390741	1.447991	5.0821

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

nstrument ID: msd_2.i Injection Date: 02-AUG-1996 07:15
ab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
nalysis Type: WATER Init. Calibration Times: 15:51 13:17
ab Sample ID: Method File: /chem/msd_2.i/2-080296.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
2-Fluorophenol	1.112	1.058	0.050	4.9	30.0
Aniline	1.113	1.050	0.050	5.6	30.0
Phenol-d5	1.062	1.118	0.050	5.3	30.0
Phenol **	1.085	1.313	0.050	21.0	30.0
Bis(2-chloroethyl) ether	1.202	1.176	0.050	2.1	30.0
2-Chlorophenol	1.283	1.257	0.050	2.0	30.0
1,3-Dichlorobenzene	1.511	1.545	0.050	2.2	30.0
1,4-Dichlorobenzene **	1.551	1.596	0.050	2.9	30.0
1,2-Dichlorobenzene	1.460	1.479	0.050	1.3	30.0
Benzyl alcohol	0.876	0.990	0.050	13.0	30.0
2-Methylphenol	0.932	0.888	0.050	4.7	30.0
Bis(2-chloroisopropyl) ether	1.021	1.063	0.050	4.2	30.0
N-Nitrosodi-n-propylamine *	0.699	0.775	0.050	10.8	30.0
4-Methylphenol	0.953	0.890	0.050	6.5	30.0
Hexachloroethane	0.671	0.697	0.050	3.8	30.0
Nitrobenzene-d5	0.424	0.439	0.050	3.4	30.0
Nitrobenzene	0.398	0.396	0.050	0.6	30.0
Isophorone	0.683	0.764	0.050	11.9	30.0
2-Nitrophenol **	0.265	0.276	0.050	3.9	30.0
2,4-Dimethylphenol	0.371	0.399	0.050	7.4	30.0
Bis(2-chloroethoxy)methane	0.376	0.391	0.050	4.0	30.0
2,4-Dichlorophenol **	0.313	0.341	0.050	9.0	30.0
Benzoic acid	0.218	0.230	0.050	5.3	30.0
1,2,4-Trichlorobenzene	0.385	0.419	0.050	8.8	30.0
Naphthalene	1.148	1.213	0.050	5.7	30.0
4-Chloroaniline	0.338	0.345	0.050	2.1	30.0
Hexachlorobutadiene **	0.224	0.249	0.050	11.1	30.0
4-Chloro-3-methylphenol **	0.350	0.324	0.050	7.4	30.0
2-Methylnaphthalene	0.745	0.789	0.050	5.8	30.0
Hexachlorocyclopentadiene *	0.259	0.263	0.050	1.7	30.0
2,4,6-Trichlorophenol **	0.322	0.337	0.050	4.8	30.0
2,4,5-Trichlorophenol	0.361	0.392	0.050	8.6	30.0
2-Fluorobiphenyl	1.446	1.520	0.050	5.1	30.0
2-Chloronaphthalene	1.202	1.220	0.050	1.5	30.0
2-Nitroaniline	0.315	0.319	0.050	1.4	30.0
Dimethyl phthalate	1.506	1.437	0.050	4.6	30.0
2,6-Dinitrotoluene	0.312	0.314	0.050	0.4	30.0
Acenaphthylene	1.850	1.848	0.050	0.1	30.0
3-Nitroaniline	0.170	0.165	0.050	3.4	30.0
Acenaphthene **	1.219	1.205	0.050	1.1	30.0
2,4-Dinitrophenol *	0.112	0.095	0.050	14.6	30.0
2,4-Dinitrotoluene	0.397	0.431	0.050	8.5	30.0
4-Nitrophenol *	0.134	0.119	0.050	11.2	30.0
Dibenzofuran	1.643	1.677	0.050	2.0	30.0
Diethyl phthalate	1.537	1.626	0.050	5.8	30.0

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

nstrument ID: msd_2.i Injection Date: 02-AUG-1996 07:15
ab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
nalysis Type: WATER Init. Calibration Times: 15:51 13:17
ab Sample ID: Method File: /chem/msd_2.i/2-080296.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
Fluorene	1.284	1.363	0.050	6.1	30.0
4-Chlorophenyl phenyl ether	0.635	0.678	0.050	6.7	30.0
4-Nitroaniline	0.131	0.149	0.050	13.3	30.0
4,6-Dinitro-2-methylphenol	0.111	0.112	0.050	0.9	30.0
N-Nitrosodiphenylamine **	0.423	0.484	0.050	14.4	30.0
1,2-Diphenylhydrazine	2.092	2.114	0.050	1.1	30.0
2,4,6-Tribromophenol	0.137	0.172	0.050	25.5	30.0
4-Bromophenyl phenyl ether	0.300	0.330	0.050	10.0	30.0
Hexachlorobenzene	0.334	0.384	0.050	15.1	30.0
Pentachlorophenol **	0.123	0.142	0.050	15.6	30.0
Phenanthrene	1.345	1.492	0.050	10.9	30.0
Anthracene	1.243	1.334	0.050	7.3	30.0
Carbazole	0.636	0.720	0.050	13.1	30.0
Di-n-butyl phthalate	2.005	2.072	0.050	3.3	30.0
Fluoranthene **	1.145	1.341	0.050	17.1	30.0
Pyrene	2.175	1.997	0.050	8.2	30.0
Terphenyl-d14	1.448	1.359	0.050	6.2	30.0
Butyl benzyl phthalate	1.372	1.221	0.050	11.0	30.0
Di(2-ethylhexyl) adipate	1.185	0.988	0.050	16.7	30.0
3,3'-Dichlorobenzidine	0.143	0.156	0.050	9.5	30.0
Benz(a)anthracene	1.250	1.289	0.050	3.1	30.0
Bis(2-ethylhexyl) phthalate	2.119	1.873	0.050	11.6	30.0
Chrysene	1.162	1.154	0.050	0.7	30.0
Di-n-octyl phthalate **	5.966	5.313	0.050	10.9	30.0
Benzo(b)fluoranthene	1.739	1.756	0.050	1.0	30.0
Benzo(k)fluoranthene	1.966	1.942	0.050	1.2	30.0
Benzo(a)pyrene **	1.428	1.429	0.050	0.1	30.0
Indeno(1,2,3-cd)pyrene	1.075	1.287	0.050	19.8	30.0
Dibenz(a,h)anthracene	0.926	1.031	0.050	11.4	30.0
Benzo(g,h,i)perylene	1.008	1.017	0.050	0.8	30.0

SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107920	Extraction Method No.: 3550
Batch No(s): 0802960002	Date Extracted: 8/1/96
Lab File ID: BNA0501005	Date Analyzed: 8/2/96
Lab Sample ID: AB35822	Time Analyzed: 11:16
Cleanup Method: NA	Level: Low
Instrument ID: MSD-2	Matrix: Soil

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

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36645 LCS	BNA0601006	8/2/96
2	NA	AB36643 MS	BNA0801008	8/2/96
3	NA	AB36644 MSD	BNA0901009	8/2/96
4	#45-T1-S1	AB35819	BNA0701007	8/2/96
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13 Aug 96

QA/QC Officer

Comments:

SemiVolatile MS/MSD Recovery

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No(s): 107920 Matrix Spike/Spike dup AB35819 REF

Batch No(s): 0802960002 AB36643 MS

Lab File ID: BNA0801008/BNA0901009 AB36644 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Phenol	10000	ND	5460	55		26-90
2-Chlorophenol	10000	ND	6110	61		25-102
1,4-Dichlorobezene	5000	ND	3170	63		28-104
N-Nitroso-di-n-propylamine	5000	ND	3230	65		41-126
1,2,4-Trichlorobenzene	5000	ND	3290	66		38-107
4-Chloro-3-methylphenol	10000	ND	8610	86		26-103
Acenapthene	5000	ND	3600	72		31-137
4-Nitrophenol	10000	ND	8990	90		11-114
2,4-Dinitrotoluene	5000	ND	3380	68		28-89
Pentachlorophenol	10000	ND	7930	79		17-109
Pyrene	5000	ND	4940	99		35-142

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Phenol	10000	6040	60		10		35	26-90
2-Chlorophenol	10000	6670	67		9		50	25-102
1,4-Dichlorobezene	5000	3430	69		8		27	28-104
N-Nitroso-di-n-propylamine	5000	3560	71		10		38	41-126
1,2,4-Trichlorobenzene	5000	3540	71		7		23	38-107
4-Chloro-3-methylphenol	10000	8900	89		3		33	26-103
Acenapthene	5000	3720	74		3		19	31-137
4-Nitrophenol	10000	8520	85		5		50	11-114
2,4-Dinitrotoluene	5000	3530	71		4		47	28-89
Pentachlorophenol	10000	7920	79		0		47	17-109
Pyrene	5000	4800	96		3		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

13 Aug 08

QA/QC Officer

Comments: _____

SemiVolatile LCS Recovery

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No(s): 107920 Lab Control Spike/LCS Dup No: AB36645 LCS

Batch No(s): 0802960002

Lab File ID: BNA0601006

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Phenol	3330	NR	2350	71		26-90
2-Chlorophenol	3330	NR	2690	81		25-102
1,4-Dichlorobezene	1670	NR	1360	81		28-104
N-Nitroso-di-n-propylamine	1670	NR	1430	86		41-126
1,2,4-Trichlorobenzene	1670	NR	1340	80		38-107
4-Chloro-3-methylphenol	3330	NR	3060	92		26-103
Acenaphthene	1670	NR	1410	84		31-137
4-Nitrophenol	3330	NR	2820	85		11-114
2,4-Dinitrotoluene	1670	NR	1380	83		28-89
Pentachlorophenol	3330	NR	2590	78		17-109
Pyrene	1670	NR	1930	116		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

13 Aug 06

QA/QC Officer

Comments: _____

SemiVolatile Surrogate Recovery (Soil)

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No(s).: 107920 Level: Low

Batch No.(s): 0802960002

Lab Sample No.	S1 (2FP)	#	S2 (PHL)	#	S3 (NBZ)	#	S4 (FBP)	#	S5 (TBP)	#	S6 (TPH)	#	Total Out
AB35822 MB	70		59		79		73		91		116		0
AB36645 LCS	78		64		80		76		99		111		0
AB36643 MS	57		46		60		60		85		85		0
AB36644 MSD	57		46		57		58		79		77		0
AB35819	56		46		67		70		91		103		0

Column used to flag recovery values

* = Values outside of required QC limits

ND = Not Detected

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

QA/QC Officer

Comments: _____

General Chemistry Method Blank Summary

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

Client: ACE-SAD

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

	ANALYTE	BLANK VALUE	MDL mg/Kg	DATE ANALYZED
1	TRPH 9071A	<MDL	10.0	7/17/96
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13 Aug 96

QA/QC Officer

Comments:

General Chemistry MS/MSD Recovery

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107920	AB35672 REF

MS	Spike Added mg/Kg	Sample Conc. mg/Kg	MS Conc. mg/Kg	MS % Recovery	QC Limits Required
TRPH 9071A	155	ND	144	93	80-120

MSD	Spike Added mg/Kg	MSD Conc. mg/Kg	MSD % mg/Kg	QC Limits Required	%RPD
TRPH 9071A	155	138	89	80-120	4

NR = Not Required
NC = Not Calculable due to values less than CRDL
ND = Not Detected

QA/QC Officer

Comments:

General Chemistry LCS Recovery

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107920	Batch ID: 071796B

LCS

	Spike Added mg/Kg	Sample Conc. mg/Kg	LCS Conc. mg/Kg	LCS % Recovery	QC Limits Required
TRPH 9071A	155	NR	148	96	80-120

NR = Not Required
ND = Not Detected
NC = Not Calculable due to value(s) less than CRDL

13 Aug 96

QA/QC Officer

Comments:

General Chemistry Duplicate Recovery

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No(s): 107920

Sample 35671

	Sample Result (mg/Kg)	Dup. Sample Result (mg/Kg)	% RPD
TRPH 9071A	ND	ND	NC

RPD Limit 20%
NR = Not Required
ND = Not Detected
NC = Not Calculable due to value(s) less than CRDL

13 Aug 98
QA/QC Officer

Comments:
Sample AB35671 is not a USACE sample.

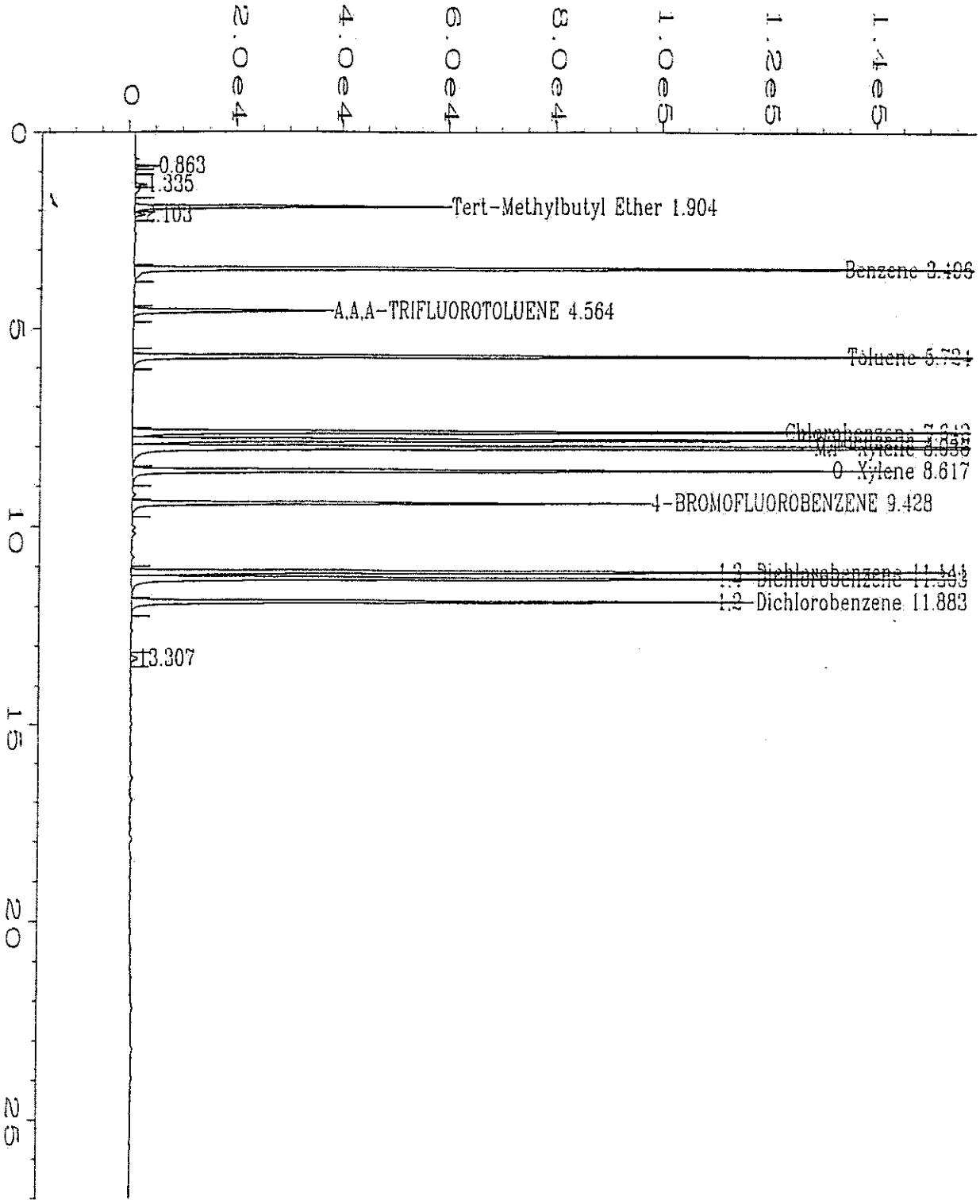
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\b072396\30723F01.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 23 Jul 96 04:41 PM
Report Created on: 23 Jul 96 05:15 PM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\b072396\30723F01.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.904	223777	BV	0.059	1	19.153	Tert-Methylbutyl Ether
3.496	674281	BV	0.056	1	17.090	Benzene
4.564	155103	BB	0.065	1	14.042	A,A,A-TRIFLUOROTOLUENE
5.724	653855	BV	0.059	1	17.308	Toluene
7.642	660365	BV	0.058	1	17.445	Chlorobenzene
7.849	588483	VV	0.061	1	17.423	Ethylbenzene
8.036	1352584	VV	0.062	1	34.760	M,P-Xylene
8.617	572078	VB	0.062	1	17.266	O-Xylene
9.428	368581	PB	0.059	1	14.472	4-BROMOFLUOROBENZENE
11.141	590019	BV	0.060	1	17.390	1,3-Dichlorobenzene
11.303	603378	VV	0.060	1	17.557	1,4-Dichlorobenzene
11.883	457753	VB	0.061	1	19.159	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b072396\30723F01.D		
Operator	: Doug Anderson	Page Number	: 1
Instrument	: GC3	Vial Number	: 1
Sample Name	: 20ppb 8020 ccv	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 23 Jul 96 04:41 PM	Instrument Method	: 3B061396.MTH
Report Created on	: 23 Jul 96 05:15 PM	Analysis Method	: 3B061396.MTH
Last Recalib on	: 14 JUN 96 10:38 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: 16ppb surr		

BTEX Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107920	
Batch No: 072396BW	Date Analyzed: 7/23/96
Lab File ID: 30723F01	Time Analyzed: 17:16
Lab Sample ID: AB35823	Level: Low
Instrument ID: GC3	Matrix: Water

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

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36265 LCS	30723F03	7/23/96
2	NA	AB36266 MS	30723F04	7/23/96
3	NA	AB36267 MSD	30723F05	7/23/96
4	#45-T1-GW	AB35820	30723F08	7/23/96
5	TRIP BLANK #9	AB35821	30723F07	7/23/96
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable

QA/QC Officer

Comments:

Water BTEX MS/MSD Recovery

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No: 107920 Matrix Spike/Matrix Dup No.: AB35738 REF
Batch No: 0723596BW AB36266 MS
Lab File ID: 30723F04/30723F05 AB36267 MSD
Level (Low/Med): Low

Compound	Spike Added (ug/L)	Sample Conc (ug/L)	MS Conc (ug/L)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	18	91		80-120
Toluene	20	ND	20	100		80-120
Ethylbenzene	20	ND	19	95		80-120
m,p-Xylene	40	1.12	40	98		80-120
o-Xylene	20	4.08	24	98		80-120

Compound	Spike Added (ug/L)	MSD Conc (ug/L)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Benzene	20	17	83		9		30	80-120
Toluene	20	18	90		11		30	80-120
Ethylbenzene	20	17	86		10		30	80-120
m,p-Xylene	40	37	89		10		30	80-120
o-Xylene	20.0	21	87		12		30	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
ND = None Detected

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

QA/QC Officer

Comments: _____

BTEX LCS Recoveries (Water)

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No: 107920	Lab Control Spike: AB36265
Batch No: 072396BW	Level (Low/Med): Low
Lab File ID: 30723F03	

Compound	Spike Added (ug/L)	Sample Conc. (ug/L)	LCS Conc (ug/L)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	NR	19	93		80-120
Toluene	20	NR	19	94		80-120
Ethylbenzene	20	NR	19	95		80-120
m,p-Xylene	40	NR	38	95		80-120
o-Xylene	20	NR	19	95		80-120

* Values outside of QC limits
ND = Not Detected
NR = Not Required

Spike Recovery: 0 out of 5 outside limits

QA/QC Officer

Comments: _____

BTEX Surrogate Recovery Summary

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No(s): 107920
Batch No.: 072396BW Matrix: Water
GC Column : DB-VXR Level: Low

Lab Sample No.	A,A,A-Trifluorotoluene %Rec	#	4-Bromofluorobenzene %Rec	#	Total Out
AB35823 MB	88		91		0
AB36265 LCS	86		92		0
AB36266 MS	89		91		0
AB36267 MSD	81		83		0
AB35820	82		81		0
AB35821	91		85		0

Surrogate Recovery Limits: 80-120%

Column to be used to flag recovery values
* Values outside of required QC limits
ND = Not Detected
DO = Diluted Out

QA/QC Officer

Comments:

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No: 107920 DFTPP Injection Date: 8/1/96

Lab File ID: DFTPP080196 DFTPP Injection Time: 7:19

Instrument ID: MSD-2 Batch Number: 0801960004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	56.9	
68	Less than 2.0% of mass 69	0.0	
69	Mass 69 relative abundance	69.2	(1)
70	Less than 2.0% of mass 69	0.5	
127	40.0 - 60.0% of mass 198	51.6	
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	6.1	
275	10.0 - 30.0% of mass 198	18.3	
365	Greater than 1% of mass 198	1.5	
441	Present, but less than mass 443	77.0	
442	Greater than 40% of mass 198	45.2	
443	17.0 - 23.0% of mass 442	19.7	(2)

1-Value is % mass 69

2-Value is % mass 442

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

		CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
	01	NA	CCV	BNA0101001	08/01/96	7:47 AM	
	02	NA	AB35823 MB	BNA0801008	08/01/96	3:26 PM	
	03						
	04						
	05						
	06						
	07						
	08						

NA: Not Applicable

Comments:

QA/QC OFFICER

Ecosys, Inc.

ata file : /chem/msd_2.i/2-080196.b/DFTPP080196.d
ab. Id. : DFTPP02
nj Date : 01-AUG-96 07:19 Autotune Date: 31-Jul-96 09:13:5
perator : GORDON Inst ID: msd_2.i
mp Info : 50NG of dft-05-39
isc Info : TUNE FOR INSTRUMENT msd2.i
omment :
ethod : /chem/msd_2.i/2-080196.b/dftpp288.m
eth Date : 01-Aug-1996 07:05
al Date : Cal File:
ls bottle: 1 QC Sample: DFTPP
il Factor: 1.000 Target Version: Target 2.20
ntegrator: HP RTE Compound Sublist: all.sub
ample Type: WATER

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE		RATIO
1 dftpp					CAS #: 5074-71-5		
16(0.000)	198	357653					100.00(Q)
7.916(0.000)	51	196270			0.00-	0.00	54.88
7.916(0.000)	68	0			0.00-	0.00	0.00
7.916(0.000)	69	236341			0.00-	0.00	66.08
7.916(0.000)	70	1045			0.00-	0.00	0.44
7.916(0.000)	127	180373			0.00-	0.00	50.43
7.916(0.000)	197	0			0.00-	0.00	0.00
7.916(0.000)	199	22391			0.00-	0.00	6.26
7.916(0.000)	275	66512			0.00-	0.00	18.60
7.916(0.000)	365	6214			0.00-	0.00	1.74
7.916(0.000)	441	32742			0.00-	0.00	79.62
7.916(0.000)	442	211552			0.00-	0.00	59.15
7.916(0.000)	443	41121			0.00-	0.00	19.44

C Flag Legend

- Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

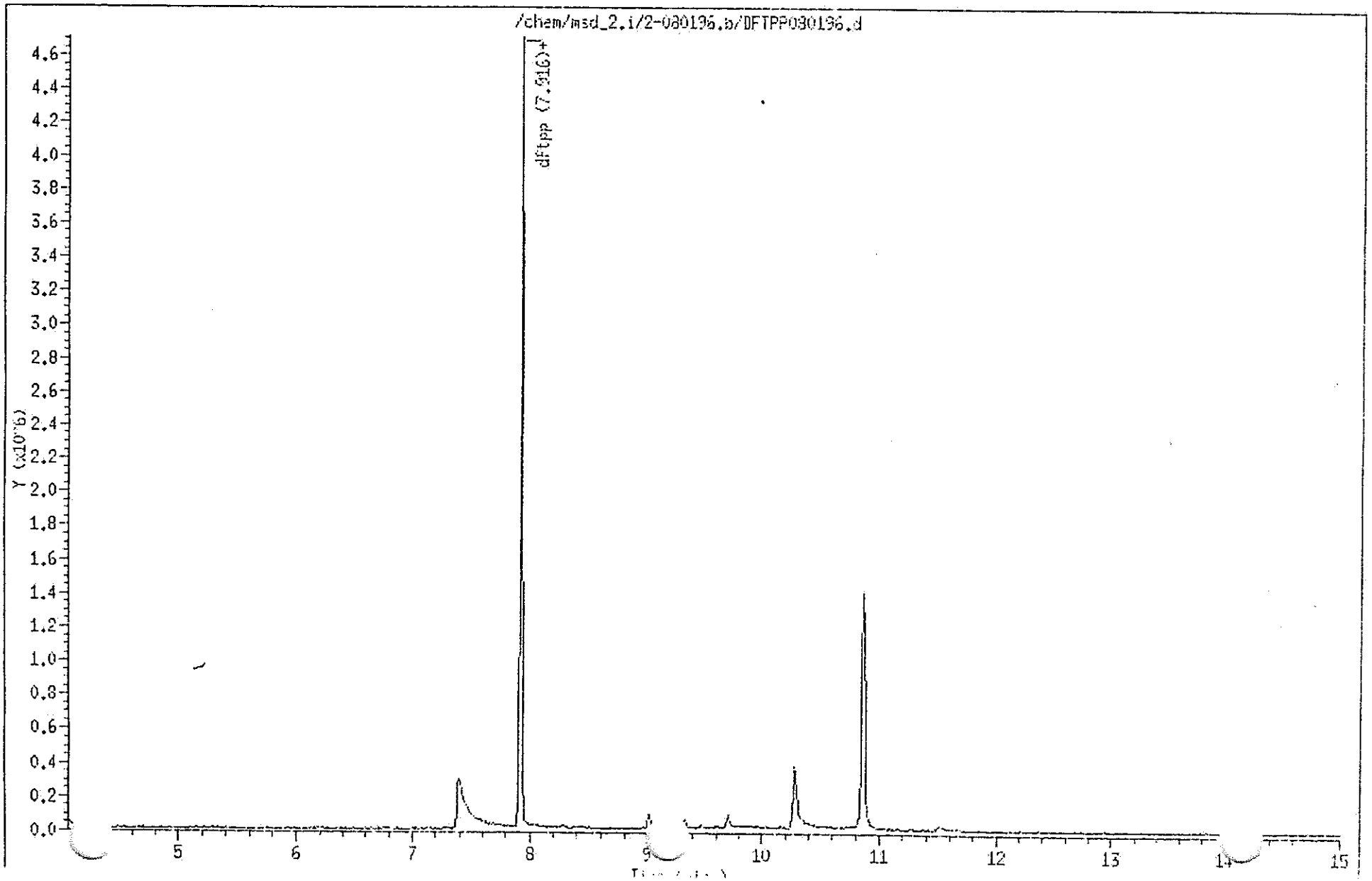
Client SDG: 2-080196.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

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

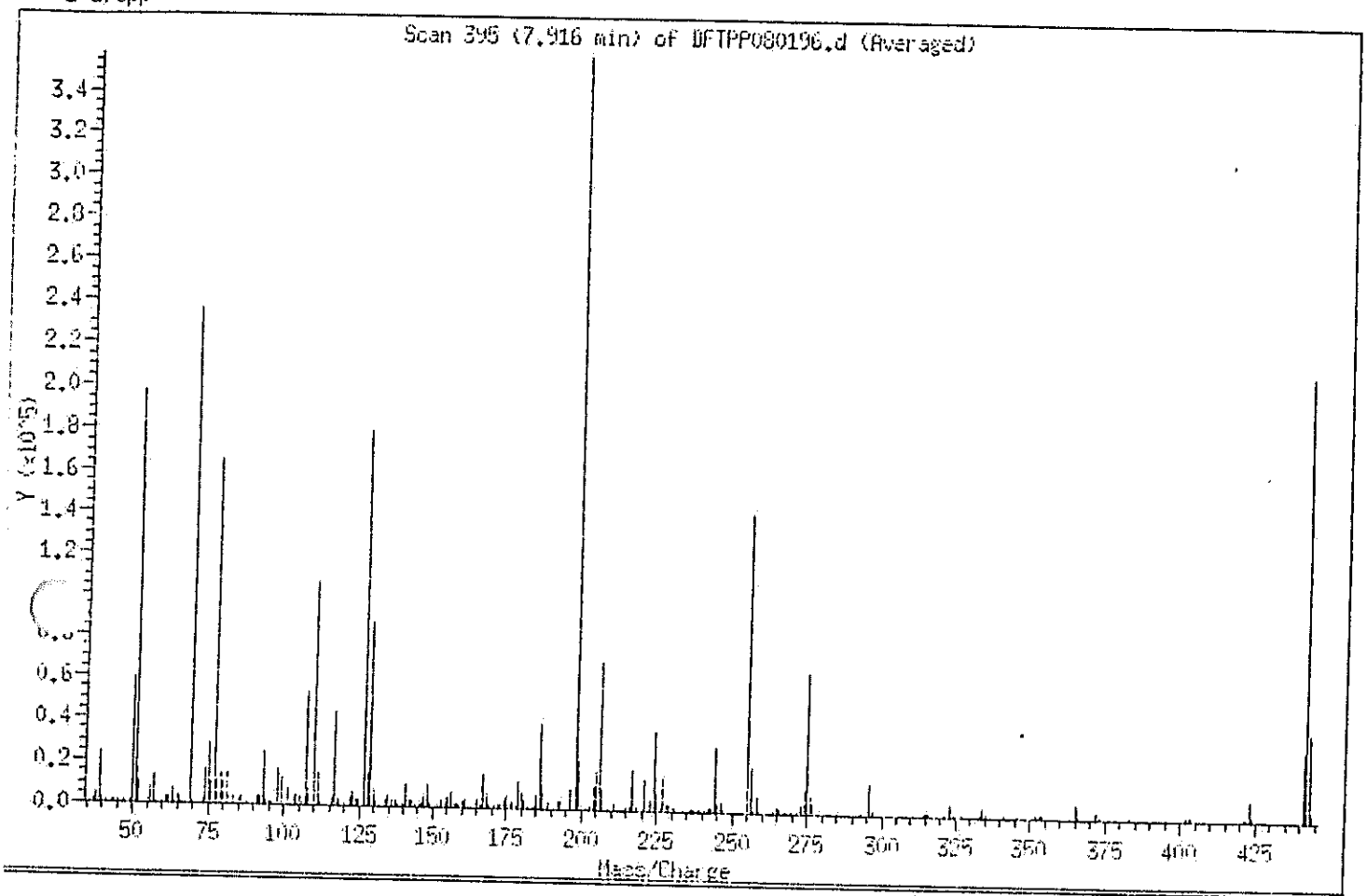
Data File: /chem/msd_2.i/2-080196.b/DFTPP080196.d
Date : 01-AUG-96 07:19
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-080196.b/DFTPP080196.d
Date : 01-AUG-96 07:19
Instrument : msd_2.i
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	54.9
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	66.1
70	Mass 70 relative abundance	0.4
127	Mass 127 relative abundance	50.4
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.3
275	Mass 275 relative abundance	18.6
365	Mass 365 relative abundance	1.7
441	Mass 441 relative abundance	79.6
442	Mass 442 relative abundance	59.2
443	Mass 443 relative abundance	19.4

Data File: /chem/msd_2.i/2-080196.b/DFTPP080196.d
Date : 01-AUG-96 07:19
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.916 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 300

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
35.00	94	118.00	2898	196.00	9267	281.00	75
36.00	58	119.00	433	198.00	357653	283.00	450
37.00	1491	120.00	389	199.00	22381	284.00	332
38.00	3782	121.00	280	200.00	1898	285.00	900
39.00	21959	122.00	3543	201.00	1273	286.00	102
40.00	942	123.00	6419	203.00	2314	289.00	153
41.00	756	124.00	3157	204.00	10038	290.00	84
42.00	224	125.00	2645	205.00	17943	291.00	95
43.00	36	127.00	180573	206.00	69818	292.00	88
45.00	301	128.00	15350	207.00	9554	293.00	1023
46.00	96	129.00	87132	208.00	2223	294.00	245
47.00	251	130.00	7036	209.00	822	296.00	15923
48.00	256	131.00	1565	211.00	3182	297.00	1761
49.00	717	132.00	372	212.00	164	298.00	326
50.00	58751	134.00	2348	213.00	186	301.00	273
51.00	196270	135.00	5897	215.00	913	302.00	219
52.00	10055	136.00	2406	216.00	1510	303.00	1522
53.00	143	137.00	2978	217.00	19096	304.00	442
54.00	304	138.00	558	218.00	2236	308.00	271
55.00	1095	139.00	446	219.00	256	309.00	77
56.00	7274	140.00	902	221.00	14539	310.00	177
57.00	12813	141.00	10053	223.00	4596	314.00	584
58.00	646	142.00	3111	224.00	37378	315.00	1526
59.00	174	143.00	2098	225.00	8655	316.00	938
60.00	179	144.00	626	226.00	913	321.00	591
61.00	2207	145.00	682	227.00	15582	322.00	199
62.00	2279	146.00	1629	228.00	2155	323.00	5653
63.00	6302	147.00	4459	229.00	3011	324.00	1147
64.00	559	148.00	10312	230.00	554	325.00	134
65.00	2735	149.00	2156	231.00	1484	326.00	96
67.00	314	150.00	498	232.00	369	327.00	852
69.00	256341	151.00	995	233.00	170	328.00	429
70.00	1045	152.00	166	234.00	1022	332.00	363
71.00	137	153.00	2722	235.00	1047	333.00	596
72.00	75	154.00	2251	236.00	855	334.00	3494

Data File: /chem/msd_2.i/2-080196.b/DFTPP080196.d
Date : 01-AUG-96 07:19
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

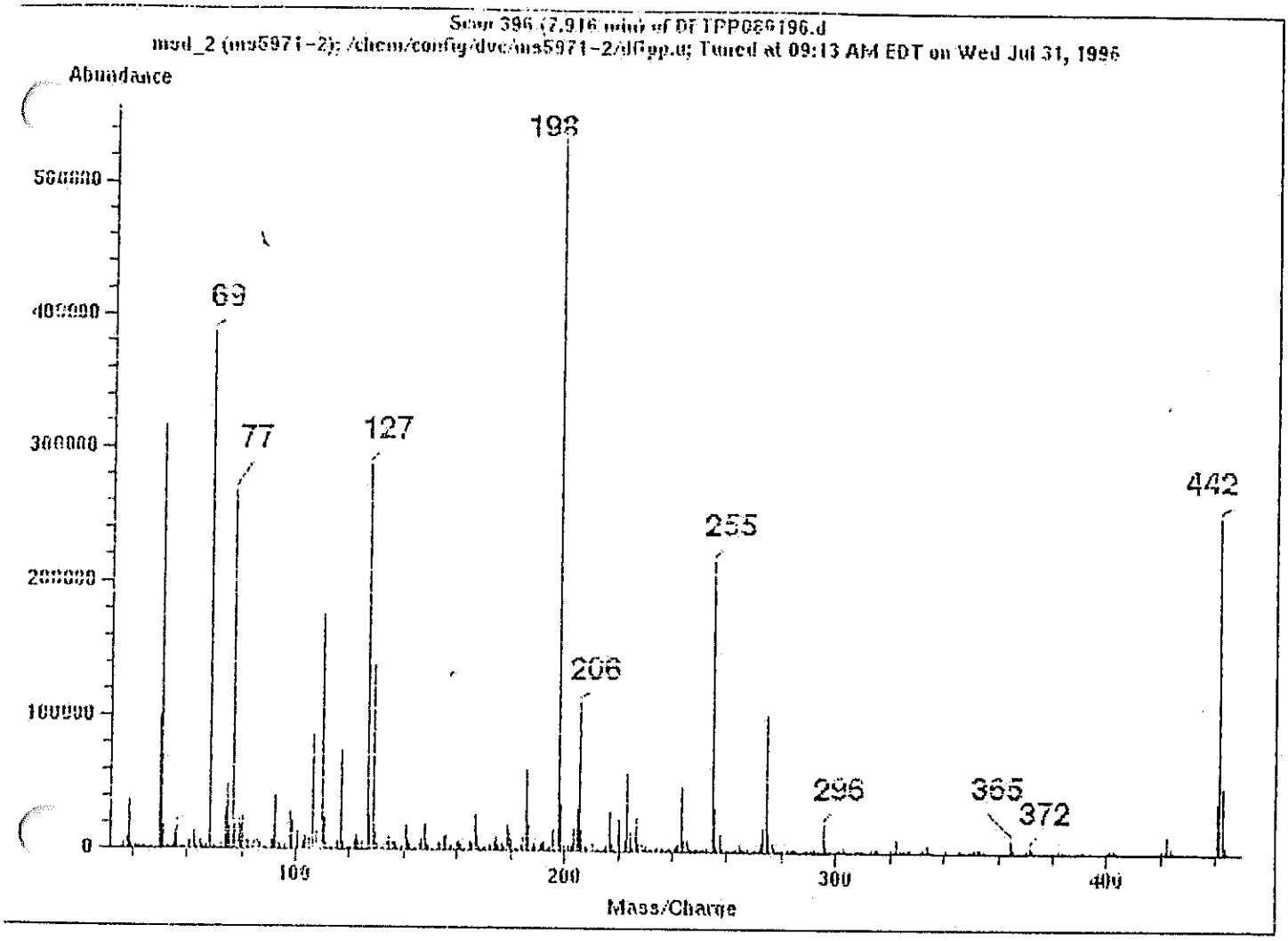
Spectrum: Scan 395-397 (7.916 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 300

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
73.00	1807	155.00	4501	237.00	1153	335.00	744
74.00	18173	156.00	6300	238.00	233	341.00	588
75.00	30029	157.00	1505	239.00	531	342.00	100
76.00	10326	158.00	1739	240.00	426	346.00	968
77.00	164723	159.00	1058	241.00	807	347.00	188
78.00	11082	160.00	2649	242.00	1971	350.00	74
79.00	14106	161.00	3879	243.00	1976	352.00	1550
80.00	10060	162.00	1192	244.00	30742	353.00	1203
81.00	13350	163.00	276	245.00	4110	354.00	1702
82.00	2870	164.00	220	246.00	4722	355.00	373
83.00	3365	165.00	3130	247.00	908	359.00	78
84.00	21	166.00	1652	248.00	285	365.00	6214
85.00	2397	167.00	15196	249.00	1004	369.00	823
86.00	3823	168.00	6559	250.00	172	370.00	69
87.00	1782	169.00	1127	251.00	157	371.00	397
88.00	779	170.00	773	252.00	418	372.00	2598
89.00	476	171.00	451	253.00	896	373.00	618
91.00	3710	172.00	1564	254.00	142210	383.00	583
92.00	3655	173.00	2205	255.00	20640	384.00	337
93.00	24371	174.00	3419	257.00	1573	390.00	356
94.00	1697	175.00	5952	258.00	7224	391.00	220
95.00	46	176.00	1823	259.00	1090	392.00	320
96.00	1145	177.00	2871	260.00	200	401.00	227
98.00	17217	178.00	1051	262.00	97	402.00	831
99.00	12575	179.00	12018	263.00	117	403.00	1568
100.00	1378	180.00	7743	264.00	282	404.00	446
101.00	7753	181.00	4100	265.00	2868	410.00	74
102.00	317	182.00	721	266.00	1457	421.00	1393
103.00	2672	183.00	339	267.00	71	422.00	1229
104.00	4898	184.00	1317	268.00	199	426.00	9966
105.00	4067	185.00	6446	269.00	82	424.00	2130
106.00	281	186.00	39249	270.00	135	425.00	252
107.00	53052	187.00	11381	271.00	283	441.00	32742
108.00	7645	188.00	1184	272.00	565	442.00	211552
110.00	107186	189.00	2736	273.00	4147	443.00	41121

Data File: /chem/msd_2.i/2-080196.b/DFTPP080196.d
Date : 01-AUG-96 07:19
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 385-397 (7.916 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 300

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
111.00	15369	190.00	595	274.00	11528	444.00	3773
112.00	2017	191.00	1398	275.00	66512	445.00	195
113.00	498	192.00	3679	276.00	8638		
115.00	21	193.00	3383	277.00	4341		
116.00	4052	194.00	858	278.00	745		
117.00	44301	195.00	671	279.00	302		



ass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	56.9
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	69.2
70	Less than 2.0% of mass 69	0.5
27	40.0 to 60.0% of mass 198	51.6
97	Less than 1.0% of mass 198	0.0
98	Base peak, 100% relative abundance	100.0
99	5.0 to 9.0% of mass 198	6.1
75	10.0 - 30.0% of mass 198	18.3
95	Greater than 1% of mass 198	1.5
41	Present, but less than mass 443	77.0
42	Greater than 40.0% of mass 198	45.2
43	17.0 - 23.0% of mass 442	19.7

Ecosys, Inc.

BASE NEUTRAL QUANT AND RATIO REPORT

ata file : /chem/msd_2.i/2-080196.b/BNA0101001.d
ab. Id. :
nj Date : 01-AUG-1996 07:47 Autotune Date: 31-Jul-96 09:13:5
perator : GORDON Inst ID: msd_2.i
mp Info : BNA-80-38
isc Info : CONTINUE CALIBRATION
omment :
ethod : /chem/msd_2.i/2-080196.b/MA-BNA.m
eth Date : 01-Aug-1996 08:49 target
al Date : 01-AUG-96 07:47 Cal File: BNA0101001.d
ls bottle: 1 Continuing Calibration Sample
il Factor: 1.000 Target Version: Target 2.20
ntegrator: HP RTE Compound Sublist: all.sub
ample Type: WATER

Compounds	QUANT SIG MASS	RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
Fluorophenol	112.00	9.555(0.717)	1651748	73.5	73.5
iline	93.00	12.459(0.934)	1746518	77.7	77.7
3 Phenol-d5	99.00	12.578(0.943)	1795468	83.7	83.7
4 Phenol **	94.00	12.610(0.946)	1818654	83.0	83.0
5 Bis(2-chloroethyl) ether	93.00	12.740(0.955)	1940730	80.8	80.8
6 2-Chlorophenol	128.00	12.783(0.959)	2053187	79.2	79.2
7 1,3-Dichlorobenzene	146.00	13.161(0.987)	2483700	81.4	81.4
8 1,4-Dichlorobenzene-d4	152.00	13.334(1.000)	807916	40.0	
9 1,4-Dichlorobenzene **	146.00	13.377(1.003)	2577800	82.3	82.3
10 1,2-Dichlorobenzene	146.00	13.776(1.033)	2402426	81.5	81.5
11 Benzyl alcohol	79.00	13.841(1.038)	1590244	89.8	89.8
12 2-Methylphenol	108.00	14.197(1.065)	1571595	83.5	83.5
13 Bis(2-chloroisopropyl) ether	45.00	14.197(1.065)	1760527	85.4	85.4
14 N-Nitrosodi-n-propylamine *	70.00	14.575(1.093)	1252400	88.7	88.7
15 4-Methylphenol	108.00	14.640(1.098)	1631811	84.8	84.8
16 Hexachloroethane	117.00	14.662(1.100)	1129494	83.3	83.3
17 Nitrobenzene-d5	82.00	14.878(0.889)	2174381	79.7	79.7
18 Nitrobenzene	77.00	14.932(0.892)	2049589	80.1	80.1
19 Isophorone	82.00	15.601(0.932)	3780771	86.2	86.2
20 2-Nitrophenol **	139.00	15.763(0.942)	1384086	81.2	81.2
21 2,4-Dimethylphenol	107.00	16.001(0.956)	2000729	83.9	83.9
22 Bis(2-chloroethoxy)methane	93.00	16.228(0.970)	2090028	86.5	86.5
23 2,4-Dichlorophenol **	162.00	16.444(0.983)	1693659	84.2	84.2
24 Benzoic acid	105.00	16.531(0.988)	987722	70.5	70.5(M)
26 Naphthalene-d8	136.00	16.737(1.000)	2569586	40.0	
2 2,4-Trichlorobenzene	180.00	16.607(0.992)	1971384	79.7	79.7
1 phthalene	128.00	16.791(1.003)	5998216	81.4	81.4
28 4-Chloroaniline	127.00	17.008(1.016)	1568326	72.2	72.2(M)
29 Hexachlorobutadiene **	224.30	17.148(1.025)	1125491	78.3	78.3
30 4-Chloro-3-methylphenol **	107.00	18.346(1.096)	1798180	80.0	80.0
31 2-Methylnaphthalene	142.00	19.627(1.113)	3841457	80.3	80.3

Compounds	QUANT SIG MASS	RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
32 Hexachlorocyclopentadiene *	237.00	19.027(0.892)	904645	98.0	88.0
33 2,4,6-Trichlorophenol **	196.00	19.405(0.910)	1029650	89.8	89.8
34 2,4,5-Trichlorophenol	196.00	19.502(0.915)	1180323	82.4	82.4
35 2-Fluorobiphenyl	172.00	19.622(0.920)	4650916	81.1	81.1
36 2-Chloronaphthalene	162.00	19.893(0.933)	3873693	81.3	81.3
37 2-Nitroaniline	65.00	20.228(0.949)	927199	74.3	74.3
38 Dimethyl phthalate	163.00	20.735(0.973)	4834713	81.0	81.0
39 2,6-Dinitrotoluene	165.00	20.876(0.979)	1063830	85.9	85.9
42 Acenaphthylene	152.00	20.963(0.983)	5980653	81.5	81.5
41 3-Nitroaniline	138.00	21.363(1.002)	546145	80.8	80.8(M)
40 Acenaphthene-d10	164.00	21.319(1.000)	1586067	40.0	
43 Acenaphthene **	153.00	21.417(1.005)	3877446	80.2	80.2
44 2,4-Dinitrophenol *	184.00	21.590(0.000)	369294	83.5	83.5(M)
47 2,4-Dinitrotoluene	165.00	21.915(1.028)	1239581	78.7	78.7
45 4-Nitrophenol *	65.00	21.904(1.027)	482409	90.7	90.7(M)
46 Dibenzofuran	168.00	21.871(1.026)	5200007	79.8	79.8
48 Diethyl phthalate	149.00	22.564(1.058)	5012254	82.2	82.2
50 Fluorene	166.00	22.770(1.068)	3981821	78.2	78.2
49 4-Chlorophenyl phenyl ether	204.00	22.803(1.070)	1973162	78.3	78.3
52 4-Nitroaniline	138.00	23.063(0.000)	480031	92.2	92.2(M)
4,6-Dinitro-2-methylphenol	198.00	22.965(0.912)	542772	95.4	95.4(M)
N-Nitrosodiphenylamine **	169.00	23.128(0.918)	1735037	80.2	80.2
54 1,2-Diphenylhydrazine	77.00	23.225(0.922)	8112551	75.8	75.8
55 2,4,6-Tribromophenol	329.70	23.399(0.929)	558656	79.5	79.5
56 4-Bromophenyl phenyl ether	248.00	24.058(0.955)	1176574	76.7	76.7
57 Hexachlorobenzene	283.30	24.178(0.960)	1331586	77.9	77.9
58 Pentachlorophenol **	265.75	24.718(0.981)	537220	85.2	85.2
59 Phenanthrene-d10	189.00	25.185(1.000)	2047185	40.0	
60 Phenanthrene	178.00	25.250(1.003)	5458854	79.3	79.3
61 Anthracene	178.00	25.391(1.008)	4810733	75.6	75.6
62 Carbazole	167.00	25.888(1.028)	2303017	70.7	70.7(M)
63 Di-n-butyl phthalate	149.00	26.806(1.064)	7853330	76.5	76.5
64 Fluoranthene **	202.00	28.337(1.125)	4624349	78.9	78.9
65 Pyrene	202.00	28.919(0.902)	4590693	81.5	81.5
66 Terphenyl-d14	244.00	29.362(0.916)	2805733	74.9	74.9
67 Butyl benzyl phthalate	149.00	30.666(0.957)	2765630	78.0	78.0
68 Di(2-ethylhexyl) adipate	129.00	30.893(0.964)	2397516	78.3	78.3
69 3,3'-Dichlorobenzidine	252.00	32.036(1.000)	269220	73.1	73.1(M)
71 Benz(a)anthracene	228.00	32.025(0.999)	2525330	78.1	78.1
72 Chrysene-d12	240.00	32.047(1.000)	1034224	40.0	
70 Bis(2-ethylhexyl) phthalate	149.00	32.156(1.003)	4250605	77.6	77.6
73 Chrysene	228.00	32.123(1.002)	2453437	81.7	81.7
74 Di-n-octyl phthalate **	149.00	33.784(1.000)	5738464	69.0	69.0
75 Benzo(b)fluoranthene	252.00	34.861(1.000)	1791949	73.9	73.9
76 Benzo(k)fluoranthene	252.00	34.948(0.000)	2290991	83.6	83.6(M)
77 Benzo(a)pyrene **	252.00	35.896(1.000)	1563534	78.6	78.6
78 Perylene-d12	264.00	36.080(1.000)	557551	40.0	(M)
79 Indeno(1,2,3-cd)pyrene	276.00	40.502(0.000)	1335862	89.2	89.2(M)
80 Dibenz(a,h)anthracene	278.00	40.665(0.000)	1026655	79.5	79.5(M)
81 Benzo(g,h,i)perylene	276.00	41.893(0.000)	1134860	80.7	80.7(M)

.ag Legend

- Compound response manually integrated.

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i Injection Date: 01-AUG-1996 07:47
Lab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
Analysis Type: WATER Init. Calibration Times: 15:51 13:17
Lab Sample ID: Method File: /chem/msd_2.i/2-080196.b/MA-BNA.m

COMPOUND	RRF	RF90	MIN RRF	%D	MAX %D
2-Fluorophenol	1.112	1.022	0.050	8.1	30.0
Aniline	1.113	1.081	0.050	2.9	30.0
Phenol-d5	1.062	1.111	0.050	4.6	30.0
Phenol **	1.085	1.126	0.050	3.7	30.0
Bis(2-chloroethyl) ether	1.202	1.201	0.050	0.0	30.0
2-Chlorophenol	1.283	1.271	0.050	0.9	30.0
1,3-Dichlorobenzene	1.511	1.537	0.050	1.7	30.0
1,4-Dichlorobenzene **	1.551	1.595	0.050	2.9	30.0
1,2-Dichlorobenzene	1.460	1.487	0.050	1.8	30.0
Benzyl alcohol	0.876	0.984	0.050	12.3	30.0
2-Methylphenol	0.932	0.973	0.050	4.4	30.0
Bis(2-chloroisopropyl) ether	1.021	1.090	0.050	6.7	30.0
N-Nitrosodi-n-propylamine *	0.699	0.775	0.050	10.9	30.0
4-Methylphenol	0.953	1.010	0.050	6.0	30.0
Hexachloroethane	0.671	0.699	0.050	4.2	30.0
Nitrobenzene-d5	0.424	0.423	0.050	0.3	30.0
Nitrobenzene	0.398	0.399	0.050	0.2	30.0
Isophorone	0.683	0.736	0.050	7.7	30.0
2-Nitrophenol **	0.265	0.269	0.050	1.5	30.0
2,4-Dimethylphenol	0.371	0.389	0.050	4.8	30.0
Bis(2-chloroethoxy)methane	0.376	0.407	0.050	8.1	30.0
2,4-Dichlorophenol **	0.313	0.330	0.050	5.3	30.0
Benzoic acid	0.218	0.192	0.050	11.9	30.0
1,2,4-Trichlorobenzene	0.385	0.384	0.050	0.4	30.0
Naphthalene	1.148	1.167	0.050	1.7	30.0
4-Chloroaniline	0.338	0.305	0.050	9.7	30.0
Hexachlorobutadiene **	0.224	0.219	0.050	2.1	30.0
4-Chloro-3-methylphenol **	0.350	0.350	0.050	0.0	30.0
2-Methylnaphthalene	0.745	0.747	0.050	0.4	30.0
Hexachlorocyclopentadiene *	0.259	0.285	0.050	10.0	30.0
2,4,6-Trichlorophenol **	0.322	0.325	0.050	0.9	30.0
2,4,5-Trichlorophenol	0.361	0.372	0.050	3.0	30.0
2-Fluorobiphenyl	1.446	1.466	0.050	1.4	30.0
2-Chloronaphthalene	1.202	1.221	0.050	1.6	30.0
2-Nitroaniline	0.315	0.292	0.050	7.1	30.0
Dimethyl phthalate	1.506	1.524	0.050	1.2	30.0
2,6-Dinitrotoluene	0.312	0.335	0.050	7.4	30.0
Acenaphthylene	1.850	1.885	0.050	1.9	30.0
3-Nitroaniline	0.170	0.172	0.050	1.1	30.0
Acenaphthene **	1.219	1.222	0.050	0.3	30.0
2,4-Dinitrophenol *	0.112	0.116	0.050	4.4	30.0
2,4-Dinitrotoluene	0.397	0.391	0.050	1.6	30.0
4-Nitrophenol *	0.134	0.152	0.050	13.4	30.0
Dibenzofuran	1.643	1.639	0.050	0.3	30.0
[illegible]	1.637	1.590	0.050	2.8	30.0

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i
Lab File ID: BNA0101001.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 01-AUG-1996 07:47
Init. Calibration Date(s): 05/28/93 07/31/96
Init. Calibration Times: 15:51 13:17
Method File: /chem/msd_2.i/2-080196.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
Fluorene	1.284	1.255	0.050	2.3	30.0
4-Chlorophenyl phenyl ether	0.635	0.622	0.050	2.1	30.0
4-Nitroaniline	0.131	0.151	0.050	15.3	30.0
4,6-Dinitro-2-methylphenol	0.111	0.133	0.050	19.3	30.0
N-Nitrosodiphenylamine **	0.423	0.424	0.050	0.2	30.0
1,2-Diphenylhydrazine	2.092	1.981	0.050	5.3	30.0
2,4,6-Tribromophenol	0.137	0.136	0.050	0.7	30.0
4-Bromophenyl phenyl ether	0.300	0.287	0.050	4.1	30.0
Hexachlorobenzene	0.334	0.325	0.050	2.6	30.0
Pentachlorophenol **	0.123	0.131	0.050	6.4	30.0
Phenanthrene	1.345	1.333	0.050	0.9	30.0
Anthracene	1.243	1.175	0.050	5.5	30.0
Carbazole	0.636	0.562	0.050	11.6	30.0
Di-n-butyl phthalate	2.005	1.918	0.050	4.3	30.0
Fluoranthene **	1.145	1.129	0.050	1.4	30.0
Pyrene	2.175	2.215	0.050	1.8	30.0
Terphenyl-d14	1.448	1.356	0.050	6.3	30.0
Butyl benzyl phthalate	1.372	1.337	0.050	2.5	30.0
Di(2-ethylhexyl) adipate	1.185	1.159	0.050	2.2	30.0
3,3'-Dichlorobenzidine	0.143	0.130	0.050	8.7	30.0
Benz(a)anthracene	1.250	1.221	0.050	2.3	30.0
Bis(2-ethylhexyl) phthalate	2.119	2.055	0.050	3.0	30.0
Chrysene	1.162	1.186	0.050	2.1	30.0
Di-n-octyl phthalate **	5.966	5.146	0.050	13.7	30.0
Benzo(b)fluoranthene	1.739	1.607	0.050	7.6	30.0
Benzo(k)fluoranthene	1.966	2.055	0.050	4.5	30.0
Benzo(a)pyrene **	1.428	1.402	0.050	1.8	30.0
Indeno(1,2,3-cd)pyrene	1.075	1.198	0.050	11.5	30.0
Dibenz(a,h)anthracene	0.926	0.921	0.050	0.6	30.0
Benzo(g,h,i)perylene	1.008	1.018	0.050	0.9	30.0

Ecosys, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd_2.i
Lab File ID: BNA0101001.d
Lab Sample ID:
Analysis Type: OTHER
Method File: /chem/msd_2.i/2-080196.b/MA-BNA.m
Misc Info: CONTINUE CALIBRATION

Calibration Date: 08/01/96
Calibration Time: 0833
Sample Type: WATER
Level: LOW

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	% DIFF
8 1,4-Dichlorobenzene-	807916	403958	1615832	807916	0.00
26 Naphthalene-d8	2569586	1284793	5139172	2569586	0.00
40 Acenaphthene-d10	1586067	793033	3172134	1586067	0.00
59 Phenanthrene-d10	2047185	1023592	4094370	2047185	0.00
72 Chrysene-d12	1034224	517112	2068448	1034224	0.00
78 Perylene-d12	557551	278775	1115102	557551	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	% DIFF
8 1,4-Dichlorobenzene-	13.33	12.83	13.83	13.33	0.00
26 Naphthalene-d8	16.74	16.24	17.24	16.74	0.00
40 Acenaphthene-d10	21.32	20.82	21.82	21.32	0.00
59 Phenanthrene-d10	25.18	24.68	25.68	25.18	0.00
72 Chrysene-d12	32.09	31.59	32.59	32.09	0.00
78 Perylene-d12	36.08	35.58	36.58	36.08	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.

Data File: /chem/msd_2.i/2-080196.b/BNA0101001.d
Date : 01-AUG-1996 07:47
Instrument : msd_2.i
Sample ID :
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No: 107920 DFTPP Injection Date: 8/2/96

Lab File ID: DFTPP080296 DFTPP Injection Time: 6:47

Instrument ID: MSD-2 Batch Number: 0801960004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	53.4	
68	Less than 2.0% of mass 69	0.0	
69	Mass 69 relative abundance	63.1	(1)
70	Less than 2.0% of mass 69	0.1	
127	40.0 - 60.0% of mass 198	49.2	
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	6.8	
275	10.0 - 30.0% of mass 198	19.5	
365	Greater than 1% of mass 198	1.7	
441	Present, but less than mass 443	80.4	
442	Greater than 40% of mass 198	58.6	
443	17.0 - 23.0% of mass 442	19.3	(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	7:15 AM
02	NA	AB36646 LCS	BNA0201002	08/02/96	8:18 AM
03	NA	AB36647 LCSD	BNA0301003	08/02/96	9:06 AM
04	#45-T1-GW	AB35820	BNA0401004	08/02/96	10:00 AM
05					
06					
07					
08					

NA: Not Applicable

Comments:

13 Aug 96

QA/QC OFFICER

Data File: /chem/msd_2.i/2-080296.b/DFTPP080296.d
Report Date: 02-Aug-1996 07:05

Ecosys, Inc.

Data file : /chem/msd_2.i/2-080296.b/DFTPP080296.d
Lab. Id. : DFTPP02
Inj Date : 02-AUG-96 06:47
Operator : GORDON
Smp Info : 50NG of dft-05-39
Misc Info : TUNE FOR INSTRUMENT msd2.i
Comment :
Method : /chem/msd_2.i/2-080296.b/dftpp288.m
Meth Date : 02-Aug-1996 06:29
Cal Date :
Als bottle: 1
Dil Factor: 1.000
Integrator: HP.RTE
Sample Type: WATER

Autotune Date: 31-Jul-96 09:13:5
Inst ID: msd_2.i

Cal File:
QC Sample: DFTPP
Target Version: Target 2.20
Compound Sublist: all.sub

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE		RATIO
1 dftpp					CAS #: 5074-71-5		100.00(Q)
7.917(0.000)	198	412757			0.00-	0.00	53.16
7.917(0.000)	51	219412			0.00-	0.00	0.00
7.917(0.000)	68	0			0.00-	0.00	63.00
7.917(0.000)	69	260025			0.00-	0.00	0.09
7.917(0.000)	70	240			0.00-	0.00	49.16
7.917(0.000)	127	202892			0.00-	0.00	0.00
7.917(0.000)	197	0			0.00-	0.00	6.80
7.917(0.000)	199	28084			0.00-	0.00	19.50
7.917(0.000)	275	80504			0.00-	0.00	1.74
7.917(0.000)	365	7166			0.00-	0.00	80.37
7.917(0.000)	441	37525			0.00-	0.00	58.55
7.917(0.000)	442	241680			0.00-	0.00	19.32
7.917(0.000)	443	46690					

QC Flag Legend

- Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

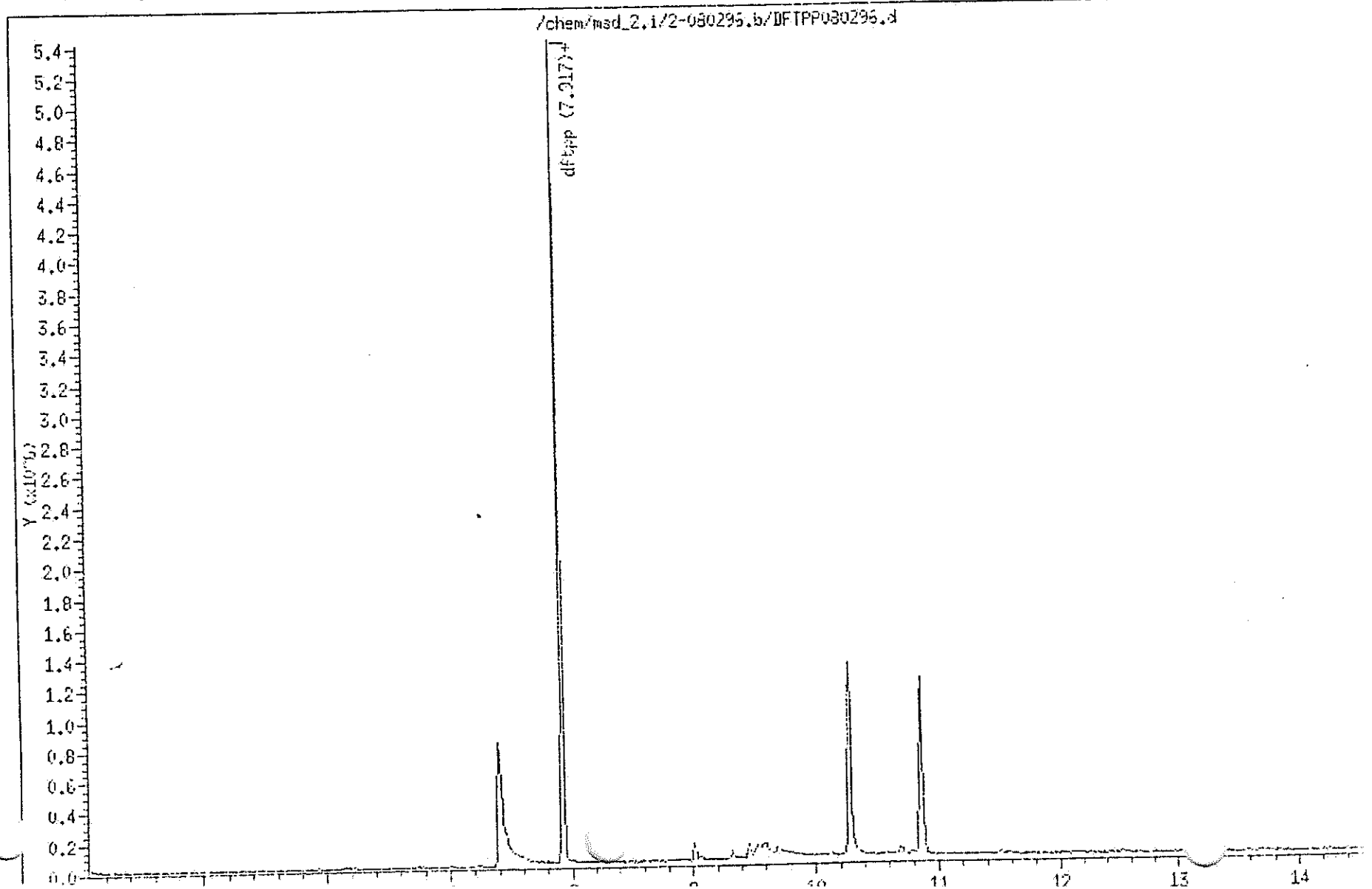
Client SDG: 2-080296.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

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

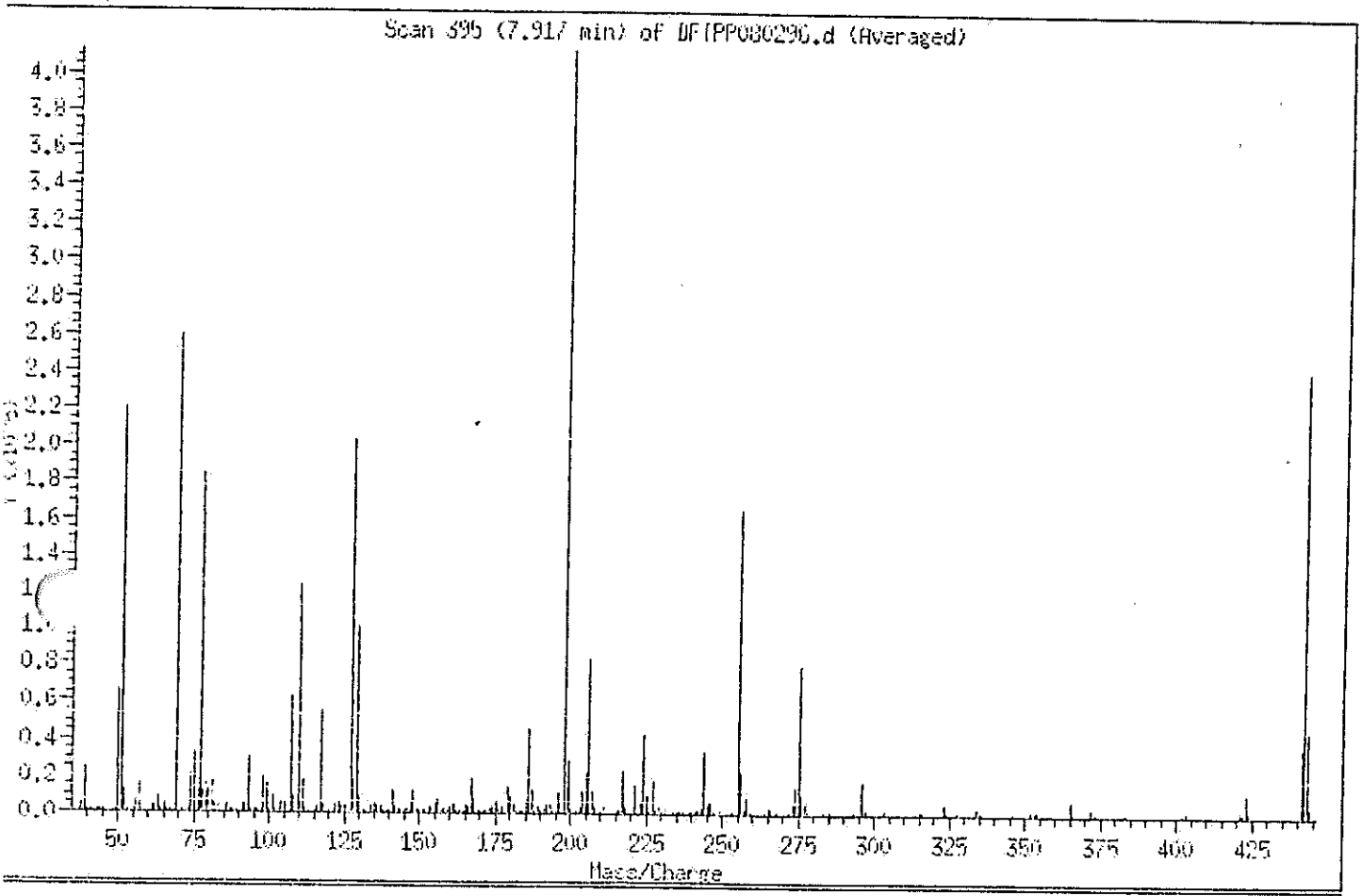
Data File: /chem/msd_2.i/2-080296.b/DFTPP080296.d
Date : 02-AUG-96 06:47
Instrument : msd_2.i
Sample ID : DFTPP2
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-080296.b/DFTPP080296.d
Date : 02-AUG-96 06:47
rument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	53.2
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	63.0
70	Mass 70 relative abundance	0.1
127	Mass 127 relative abundance	49.2
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.8
275	Mass 275 relative abundance	19.5
365	Mass 365 relative abundance	1.7
441	Mass 441 relative abundance	80.4
442	Mass 442 relative abundance	58.6
443	Mass 443 relative abundance	19.3

Data File: /chem/msd_2.i/2-000296.b/DFTPP030296.d
Date : 02-AUG-96 06:47
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.917 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	1130	124.00	3444	202.00	658	285.00	982
38.00	4679	125.00	2942	203.00	2806	286.00	83
39.00	22796	127.00	202932	204.00	11719	289.00	142
40.00	1187	128.00	17747	205.00	21067	290.00	133
41.00	578	129.00	100052	206.00	84184	291.00	196
44.00	149	130.00	6034	207.00	11272	292.00	361
45.00	1114	131.00	1368	208.00	2887	295.00	904
47.00	293	132.00	834	209.00	939	294.00	452
49.00	443	133.00	165	210.00	656	296.00	17270
50.00	65906	134.00	2951	211.00	3057	297.00	1981
51.00	219412	135.00	7009	212.00	281	298.00	87
52.00	11784	136.00	2798	213.00	297	301.00	280
53.00	303	137.00	3620	215.00	1061	302.00	309
54.00	223	138.00	952	216.00	1938	303.00	1944
55.00	1375	139.00	359	217.00	23322	304.00	540
56.00	6641	140.00	1356	218.00	3045	308.00	283
57.00	15208	141.00	11726	219.00	297	309.00	159
58.00	692	142.00	3284	221.00	15003	310.00	183
59.00	153	143.00	1305	227.00	5474	312.00	85
61.00	2873	144.00	824	224.00	42878	313.00	92
62.00	2757	145.00	659	225.00	10389	314.00	795
63.00	8162	146.00	1817	226.00	1246	315.00	1817
64.00	1068	147.00	5254	227.00	17951	316.00	823
65.00	3307	148.00	12509	228.00	2635	317.00	179
66.00	757	149.00	2549	229.00	3818	321.00	452
67.00	958	150.00	757	230.00	997	322.00	280
69.00	260025	151.00	1232	231.00	1812	323.00	5607
70.00	240	152.00	458	232.00	47	324.00	1059
71.00	74	153.00	3113	233.00	315	326.00	125
72.00	267	154.00	2701	234.00	1206	327.00	1040
73.00	1953	155.00	5564	235.00	1229	328.00	557
74.00	20919	156.00	7992	236.00	1024	329.00	118
75.00	33077	157.00	1535	237.00	1339	332.00	295
76.00	12030	158.00	2049	238.00	223	333.00	537
77.00	184133	159.00	1474	239.00	656	334.00	3590

Date : 02-AUG-96 06:47

Instrument : msd_2.i

Sample ID : DFTPP02

Column phase : Column diameter : 2.00

Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.917 min) Subtraction Scan 332

Base Peak: 198.00

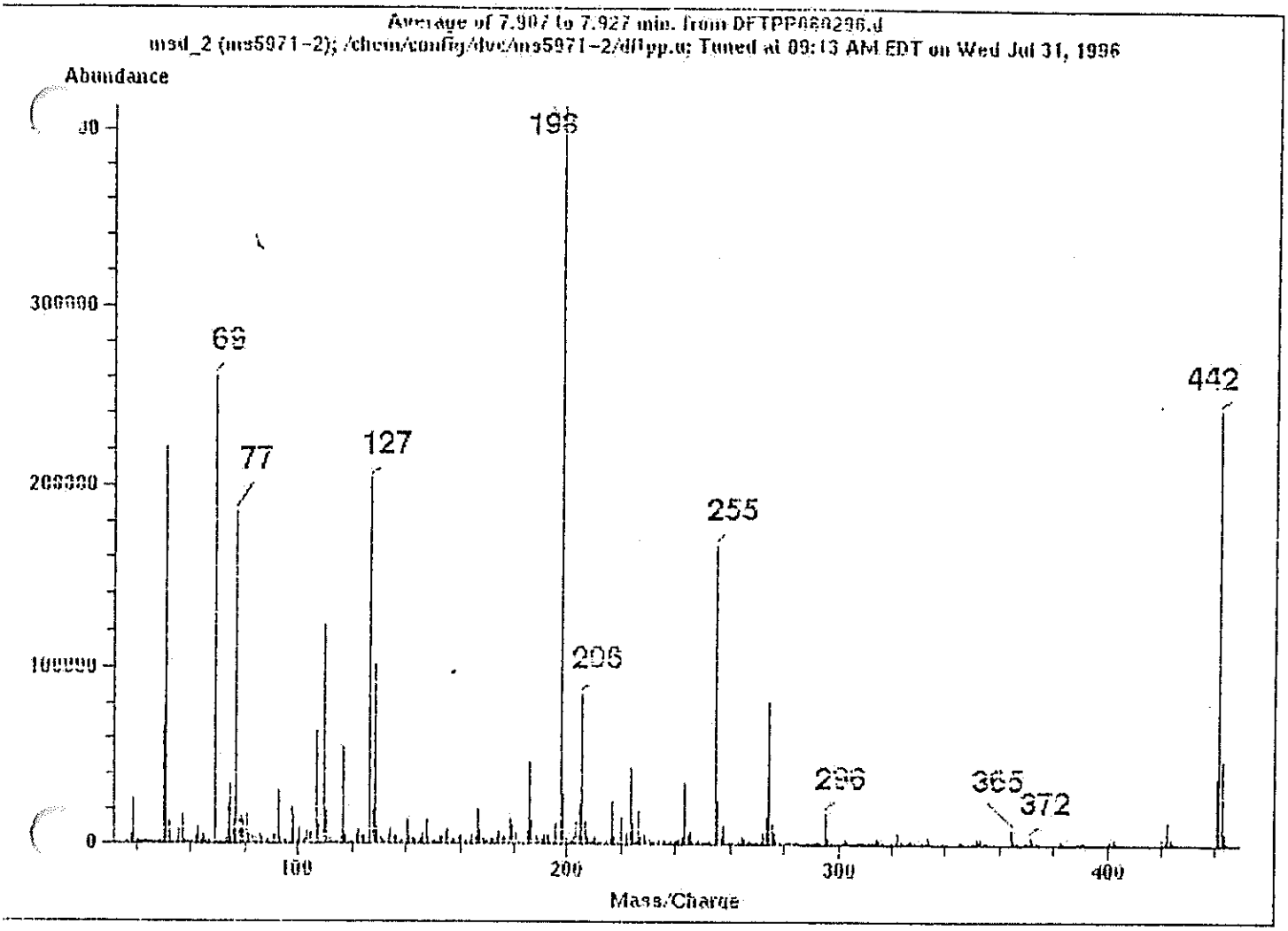
Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
78.00	12023	160.00	3165	240.00	722	335.00	962
79.00	15085	161.00	4336	241.00	978	340.00	70
80.00	11938	162.00	1382	242.00	2319	341.00	502
81.00	16321	163.00	572	243.00	2030	346.00	910
82.00	3765	164.00	714	244.00	33916	347.00	66
83.00	2942	165.00	3608	245.00	4374	351.00	74
84.00	324	166.00	5259	246.00	6704	352.00	1997
85.00	2424	167.00	18262	247.00	1317	353.00	1307
86.00	4407	168.00	7501	248.00	250	354.00	1068
87.00	2013	169.00	1074	249.00	1357	355.00	366
88.00	985	170.00	623	250.00	244	356.00	74
89.00	662	171.00	1155	251.00	457	365.00	7166
91.00	4060	172.00	2090	252.00	188	366.00	1177
92.00	4444	173.00	2102	253.00	797	367.00	85
95.00	29066	174.00	3678	255.00	166010	370.00	215
94.00	1848	175.00	6845	256.00	23412	371.00	329
95.00	337	176.00	2139	257.00	1963	372.00	3063
96.00	894	177.00	3428	258.00	9089	373.00	785
98.00	19944	178.00	502	259.00	1335	374.00	70
99.00	15172	179.00	14275	260.00	94	383.00	814
100.00	1352	180.00	9130	261.00	271	384.00	85
101.00	8718	181.00	4809	262.00	173	390.00	301
102.00	568	182.00	767	264.00	446	391.00	373
103.00	2572	183.00	620	265.00	3426	392.00	301
104.00	6511	184.00	1456	266.00	89	401.00	259
105.00	5560	185.00	7265	267.00	68	402.00	1147
107.00	62517	186.00	46141	268.00	143	403.00	1743
108.00	9117	187.00	12978	270.00	531	404.00	479
110.00	122752	188.00	1385	271.00	308	421.00	1702
111.00	17937	189.00	3466	272.00	711	422.00	1615
112.00	2072	190.00	597	273.00	5305	423.00	11938
113.00	664	191.00	1840	274.00	14575	424.00	2567
115.00	479	192.00	4441	275.00	80504	425.00	216
116.00	3326	193.00	4369	276.00	10404	441.00	37525
117.00	54508	194.00	1002	277.00	5723	442.00	241680

Data File: /chem/msd_2.i/2-080296.b/BFTPP080296.d
D[illegible] : 02-AUG-96 06:47
I[illegible]rument : msd_2.i
Sample ID : BFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.917 min) Subtraction Scan 392
Base Peak: 198.00
Number of mass peaks: 301

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
118.00	4037	195.00	659	278.00	1017	443.00	46690
119.00	273	196.00	10940	279.00	16	444.00	4902
120.00	790	198.00	412757	281.00	75	445.00	251
121.00	349	199.00	28084	282.00	95		
122.00	4432	200.00	2169	285.00	596		
123.00	6976	201.00	1515	284.00	491		



lass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	53.4
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	63.1
70	Less than 2.0% of mass 69	0.1
27	40.0 to 60.0% of mass 198	49.2
97	Less than 1.0% of mass 198	0.0
98	Base peak, 100% relative abundance	100.0
99	5.0 to 9.0% of mass 198	6.8
75	10.0 - 30.0% of mass 198	19.5
65	Greater than 1% of mass 198	1.7
41	Present, but less than mass 443	80.4
42	Greater than 40.0% of mass 198	58.6
43	17.0 - 23.0% of mass 442	19.3

Ecosys, Inc.

INITIAL CALIBRATION DATA

art Cal Date : 28-MAY-93 15:51
d Cal Date : 31-JUL-1996 13:17
ient Method : ISTD
l Curve Type : Averaged
rget Version : Target 2.20
tegrator : HP RTE
thod File : /chem/msd_2.i/2-073196.b/MA-BNA.m
l Date : 01-Aug-1996 06:42 target

libration File Names:
vel 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
vel 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
vel 4: /chem/msd_2.i/2-073196.b/BNA0601006.d
vel 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
vel 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	%RSD/R^2
2 line	0.664467	1.06565	1.00573	1.45125	1.37849	1.11316	29.395
4 ol **	0.992743	1.02261	1.11432	1.16621	1.19629	1.08537	10.151
5 Bis(2-chloroethyl) ether	1.30183	1.08118	1.21910	1.17990	1.22625	1.20165	6.701
6 2-Chlorophenol	1.16173	1.22024	1.29666	1.45597	1.31928	1.29277	8.765
7 1,3-Dichlorobenzene	1.46041	1.47016	1.53775	1.54219	1.54683	1.51147	2.806
9 1,4-Dichlorobenzene **	1.46266	1.50179	1.56282	1.59046	1.63592	1.55073	4.460
10 1,2-Dichlorobenzene	1.38979	1.40059	1.46753	1.49726	1.54562	1.45996	4.514
11 Benzyl alcohol	0.77978	0.92002	0.93384	0.90645	0.84179	0.87639	7.359
12 2-Methylphenol	0.81176	0.86821	0.90854	1.07949	0.99101	0.95180	11.296
13 Bis(2-chloroisopropyl) ether	0.90776	0.91853	0.97968	1.16841	1.12956	1.02079	11.852
14 N-Nitrosodi-n-propylamine *	0.70771	0.69337	0.71480	0.68787	0.69155	0.69906	1.657
15 4-Methylphenol	0.76799	0.87773	0.95013	1.11857	1.04909	0.95270	14.520
16 Hexachloroethane	0.63969	0.64393	0.66962	0.68581	0.71699	0.67099	4.739
18 Nitrobenzene	0.35390	0.39178	0.40817	0.42160	0.41513	0.39912	6.807
19 Isophorone	0.67325	0.69582	0.72705	0.61049	0.70892	0.68311	6.599
20 2-Nitrophenol **	0.22871	0.25752	0.27143	0.27329	0.29528	0.26525	9.234
21 2,4-Dimethylphenol	0.32725	0.38564	0.41578	0.34182	0.38645	0.37139	9.730
22 Bis(2-chloroethoxy)methane	0.35989	0.37601	0.40369	0.34813	0.39370	0.37627	6.105
23 2,4-Dichlorophenol **	0.28475	0.33655	0.33717	0.30719	0.29966	0.31306	7.402
24 Benzoic acid	0.22030	0.18236	0.19424	0.25453	0.23956	0.21820	13.823
25 1,2,4-Trichlorobenzene	0.36812	0.38352	0.39418	0.38181	0.39716	0.38496	2.989
27 Naphthalene	1.09411	1.13078	1.18725	1.16754	1.15797	1.14753	3.148
28 4-Chloroaniline	0.26020	0.31419	0.33218	0.40779	0.37552	0.33798	16.823
29 Hexachlorobutadiene **	0.22720	0.22230	0.22518	0.21991	0.22410	0.22372	1.259
30 4-Chloro-3-methylphenol **	0.32626	0.34310	0.36666	0.36781	0.34521	0.34981	5.011
31 2-Methylnaphthalene	0.73158	0.74551	0.76939	0.72467	0.75242	0.74472	2.367
32 chlorocyclopentadiene *	0.20349	0.25460	0.25547	0.28406	0.29814	0.25915	14.010
33 2,4,6-Trichlorophenol **	0.25944	0.30361	0.33218	0.36173	0.35082	0.32156	12.789
34 2,4,5-Trichlorophenol	0.33308	0.35623	0.37489	0.39529	0.34741	0.36138	6.714

Ecosys, Inc.

INITIAL CALIBRATION DATA

tart Cal Date : 28-MAY-93 15:51
nd Cal Date : 31-JUL-1996 13:17
ient Method : ISTD
al Curve Type : Averaged
arget Version : Target 2.20
ntegrator : HP RTE
ethod File : /chem/msd_2.i/2-073196.b/MA-BNA.m
al Date : 01-Aug-1996 06:42 target

alibration File Names:
evel 2: /chem/msd_2.i/2-073196.b/BNA0201002.d
evel 3: /chem/msd_2.i/2-073196.b/BNA0301003.d
evel 4: /chem/msd_2.i/2-073196.b/BNA0401006.d
evel 5: /chem/msd_2.i/2-073196.b/BNA0401004.d
evel 6: /chem/msd_2.i/2-073196.b/BNA0501005.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	%RSD/R^2
3 hloronaphthalene	1.12479	1.19116	1.23548	1.21694	1.24983	1.20164	4.166
37 Nitroaniline	0.31532	0.31374	0.32014	0.32646	0.29772	0.31468	3.399
38 Dimethyl phthalate	1.53643	1.39211	1.53044	1.54900	1.52436	1.50687	4.272
39 2,6-Dinitrotoluene	0.32402	0.33601	0.30489	0.28565	0.31131	0.31237	6.129
42 Acenaphthylene	1.70689	1.93976	1.99627	1.99086	1.90512	1.94966	4.633
41 3-Nitroaniline	0.20163	0.18292	0.15493	0.22954	0.16383	0.17035	29.130
43 Acenaphthene **	1.17690	1.20977	1.20593	1.24295	1.25779	1.21967	2.629
44 2,4-Dinitrophenol *	+++++	0.07469	0.11086	0.13015	0.13043	0.11153	23.503
47 2,4-Dinitrotoluene	0.35910	0.39177	0.42081	0.38998	0.42362	0.39706	6.659
45 4-Nitrophenol *	0.11579	0.12201	0.16167	0.14751	0.12335	0.13407	14.621
46 Dibenzofuran	1.54299	1.60570	1.66029	1.63959	1.71874	1.64346	4.259
48 Diethyl phthalate	1.57139	1.47849	1.61389	1.53164	1.48834	1.53675	3.699
50 Fluorene	1.15400	1.25010	1.28855	1.34247	1.38706	1.29444	6.975
49 4-Chlorophenyl phenyl ether	0.60238	0.61464	0.62956	0.65278	0.67651	0.63518	4.683
52 4-Nitroaniline	0.11718	0.12711	0.13126	0.13647	0.14422	0.13125	7.720
51 4,6-Dinitro-2-methylphenol	0.07389	0.09802	0.11428	0.13540	0.13392	0.11111	23.283
53 N-Nitrosodiphenylamine **	0.47209	0.44330	0.40617	0.41486	0.37711	0.42271	8.592
54 1,2-Diphenylhydrazine	2.12393	2.09748	2.04161	2.02511	2.17141	2.09191	2.865
56 4-Bromophenyl phenyl ether	0.29573	0.30323	0.28802	0.31305	0.29834	0.29967	3.099
57 Hexachlorobenzene	0.33781	0.33608	0.32286	0.33314	0.33927	0.33383	1.961
58 Pentachlorophenol **	0.10790	0.10803	0.12565	0.14551	0.12921	0.12326	12.854
60 Phenanthrene	1.21068	1.23195	1.36382	1.46502	1.45517	1.34533	8.929
61 Anthracene	1.18514	1.20530	1.23675	1.29740	1.29147	1.24321	4.045
62 Carbazole	0.75283	0.56202	0.55738	0.72086	0.58909	0.63643	14.635
63 Di-n-butyl phthalate	2.04394	2.00785	1.96648	2.13475	1.87178	2.00496	4.835
64 oranthene **	1.01621	1.03898	1.22756	1.22107	1.22142	1.14505	9.393
6 ene	2.39729	2.40599	1.99877	2.01945	2.05139	2.17456	9.571
67 Butyl benzyl phthalate	1.52748	1.45777	1.26894	1.36805	1.23604	1.37166	8.977
68 Di(2-ethylhexyl) adipate	1.25841	1.28324	1.06330	1.20481	1.11429	1.18481	7.922

Ecosys, Inc.

INITIAL CALIBRATION DATA

tart Cal Date : 28-MAY-93 15:51
nd Cal Date : 31-JUL-1996 13:17
uant Method : ISTD
al Curve Type : Averaged
arget Version : Target 2.20
ntegrator : HP RTE
ethod File : /chem/med_2.i/2-073196.b/MA-BNA.m
al Date : 01-Aug-1996 06:42 target

alibration File Names:
evel 2: /chem/med_2.i/2-073196.b/BNA0201002.d
evel 3: /chem/med_2.i/2-073196.b/BNA0301003.d
evel 4: /chem/med_2.i/2-073196.b/BNA0601006.d
evel 5: /chem/med_2.i/2-073196.b/BNA0401004.d
evel 6: /chem/med_2.i/2-073196.b/BNA0501005.d

	Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	%RSD/R^2
	3'-Dichlorobenzidine	0.178011	0.129331	0.133361	0.142031	0.129781	0.142501	14.3801
71	Benz(a)anthracene	1.147721	1.232071	1.266991	1.293541	1.310191	1.250101	5.1521
70	Bis(2-ethylhexyl) phthalate	2.305141	2.180571	1.922321	2.302961	1.885461	2.119291	9.5991
73	Chrysene	1.179391	1.157701	1.159931	1.129711	1.191421	1.161631	1.7991
74	Di-n-octyl phthalate **	5.966301	5.801271	6.041031	6.446831	5.574621	5.966011	5.4131
75	Benzo(b)fluoranthene	1.461531	1.643991	1.722291	1.847361	2.019471	1.738901	12.0891
76	Benzo(k)fluoranthene	2.054951	1.928601	2.155271	1.921261	1.768231	1.965661	7.4791
77	Benzo(a)pyrene **	1.335591	1.421291	1.454511	1.442991	1.485081	1.427881	3.9591
79	Indeno(1,2,3-cd)pyrene	1.005561	1.174241	1.108801	1.035131	1.050391	1.074821	6.2431
80	Dibenz(a,h)anthracene	0.795691	0.929591	0.907751	0.982831	1.013631	0.925901	9.0741
81	Benzo(g,h,i)perylene	0.913541	1.030651	1.054251	1.011171	1.032721	1.008471	5.4751
1	2-Fluorophenol	1.077191	1.033271	1.061031	1.253521	1.136361	1.112271	7.3671
3	Phenol-d5	0.911151	1.042581	1.040721	1.120151	1.195191	1.061941	9.9531
17	Nitrobenzene-d5	0.404031	0.414541	0.432241	0.439021	0.432681	0.424501	3.4461
39	2-Fluorobiphenyl	1.392561	1.402341	1.449071	1.488081	1.497771	1.445971	3.3211
55	2,4,6-Tribromophenol	0.120961	0.130331	0.141701	0.151141	0.142711	0.137371	8.5801
66	Terphenyl-d14	1.483721	1.552021	1.372061	1.436391	1.390741	1.447991	5.0821

Ecosys, Inc.

BASE NEUTRAL QUANT AND RATIO REPORT

Data File : /chem/msd_2.i/2-080296.b/BNA0101001.d
Lab. Id. :
Inj Date : 02-AUG-1996 07:15 Autotune Date: 31-Jul-96 09:13:5
Operator : GORDON Inst ID: msd_2.i
Smp Info : BNA-80-38
Misc Info : CONTINUE CALIBRATION
Comment :
Method : /chem/msd_2.i/2-080296.b/MA-BNA.m
Meth Date : 02-Aug-1996 08:13 target
Cal Date : 02-AUG-96 07:15 Cal File: BNA0101001.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

Compounds	QUANT SIG MASS	RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	FINAL (ug/L)
1 Fluorophenol	112.00	9.675(0.000)	1716785	76.1	76.1(M)
aline	93.00	12.494(0.937)	1704568	75.5	75.5
3 Phenol-d5	99.00	12.720(0.000)	1813935	84.2	84.2(M)
4 Phenol **	94.00	12.753(0.937)	2131306	96.8	96.8(M)
5 Bis(2-chloroethyl) ether	93.00	12.731(0.955)	1908511	78.3	78.3
6 2-Chlorophenol	128.00	12.850(0.964)	2040462	78.4	78.4
7 1,3-Dichlorobenzene	146.00	13.163(0.987)	2506549	81.8	81.8
8 1,4-Dichlorobenzene-d4	152.00	13.336(1.000)	811352	40.0	
9 1,4-Dichlorobenzene **	146.00	13.390(1.004)	2589390	82.3	82.3
10 1,2-Dichlorobenzene	146.00	13.778(1.033)	2399878	81.0	81.0
11 Benzyl alcohol	79.00	13.897(1.042)	1606966	90.4	90.4
12 2-Methylphenol	108.00	14.318(1.074)	1440351	76.2	76.2
13 Bis(2-chloroisopropyl) ether	45.00	14.210(1.066)	1725353	83.3	83.3
14 N-Nitrosodi-n-propylamine *	70.00	14.588(1.094)	1257208	88.7	88.7
15 4-Methylphenol	108.00	14.761(1.107)	1444941	74.8	74.8
16 Hexachloroethane	117.00	14.664(1.100)	1130702	83.1	83.1
17 Nitrobenzene-d5	82.00	14.891(0.890)	2169772	82.7	82.7
18 Nitrobenzene	77.00	14.945(0.893)	1955276	79.5	79.5
19 Isophorone	82.00	15.625(0.933)	3776574	89.5	89.5
20 2-Nitrophenol **	139.00	15.787(0.943)	1362162	83.1	83.1
21 2,4-Dimethylphenol	107.00	16.078(0.961)	1970291	85.9	85.9
22 Bis(2-chloroethoxy)methane	93.00	16.240(0.970)	1934686	83.2	83.2
23 2,4-Dichlorophenol **	162.00	16.564(0.990)	1686790	87.2	87.2
24 Benzoic acid	105.00	16.684(0.997)	1135585	84.2	84.2
26 Naphthalene-d8	136.00	16.738(1.000)	2470959	40.0	
25 1,2,4-Trichlorobenzene	180.00	16.619(0.993)	2070060	87.0	87.0
2 hthalene	128.00	16.803(1.004)	5996036	84.6	84.6
28 4-Chloroaniline	127.00	17.041(1.018)	1705479	81.7	81.7(M)
29 Hexachlorobutadiene **	224.30	17.149(1.025)	1228445	88.9	88.9
30 4-Chloro-3-methylphenol **	107.00	18.476(1.104)	1601011	74.1	74.1
31 2-Methylnaphthalene	142.00	18.627(1.113)	3892698	84.6	84.6

	Compounds	QUANT SIG MASS	RT (REL RT)	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/ul)	CONCENTRATIONS FINAL (ug/L)
	32 Hexachlorocyclopentadiene *	237.00	19.027(0.892)	826330	81.3	81.3
	33 2,4,6-Trichlorophenol **	196.00	19.448(0.912)	1056567	83.8	83.8
	34 2,4,5-Trichlorophenol	196.00	19.622(0.920)	1230484	86.8	86.8(H)
$	35 2-Fluorobiphenyl	172.00	19.622(0.920)	4768342	84.1	84.1
	36 2-Chloronaphthalene	162.00	19.904(0.933)	3825423	81.2	81.2
	37 2-Nitroaniline	65.00	20.282(0.951)	1001325	81.2	81.2
	38 Dimethyl phthalate	163.00	20.747(0.973)	4508006	76.3	76.3
	39 2,6-Dinitrotoluene	165.00	20.898(0.980)	983412	80.3	80.3
	42 Acenaphthylene	152.00	20.974(0.983)	5796540	79.9	79.9
	41 3-Nitroaniline	138.00	21.428(1.005)	516155	77.3	77.3(M)
*	40 Acenaphthene-d10	164.00	21.331(1.000)	1568314	40.0	
	43 Acenaphthene **	153.00	21.428(1.005)	3779764	79.1	79.1
	44 2,4-Dinitrophenol *	184.00	21.655(0.000)	298757	68.3	68.3(M)
	47 2,4-Dinitrotoluene	165.00	21.937(1.028)	1351071	86.8	86.8
	45 4-Nitrophenol *	65.00	21.915(1.026)	373437	71.0	71.0(M)
	46 Dibenzofuran	168.00	21.883(1.026)	5260527	81.6	81.6
	48 Diethyl phthalate	149.00	22.575(1.058)	5098715	84.6	84.6
	50 Fluorene	166.00	22.770(1.067)	4275099	84.9	84.9
	49 4-Chlorophenyl phenyl ether	204.00	22.803(1.069)	2126205	85.4	85.4
	52 4-Nitroaniline	138.00	23.139(0.000)	466357	90.6	90.6(M)
	4,6-Dinitro-2-methylphenol	198.00	22.987(0.912)	438653	80.7	80.7
	N-Nitrosodiphenylamine **	169.00	23.150(0.919)	1892647	91.6	91.6
	54 1,2-Diphenylhydrazine	77.00	23.236(0.922)	8270622	80.8	80.8
$	55 2,4,6-Tribromophenol	329.70	23.421(0.930)	674316	100	100
	56 4-Bromophenyl phenyl ether	248.00	24.070(0.955)	1289952	88.0	88.0
	57 Hexachlorobenzene	283.30	24.189(0.960)	1503610	92.1	92.1
	58 Pentachlorophenol **	265.75	24.773(0.983)	557329	92.5	92.5
*	59 Phenanthrene-d10	188.00	25.196(1.000)	1956080	40.0	
	60 Phenanthrene	178.00	25.272(1.003)	5837079	88.7	88.7
	61 Anthracene	178.00	25.402(1.008)	5219891	85.8	85.8
	62 Carbazole	167.00	25.932(0.000)	2815908	90.5	90.5(M)
	63 Di-n-butyl phthalate	149.00	26.818(1.064)	8104823	82.7	82.7
	64 Fluoranthene **	202.00	28.349(1.125)	5246171	93.7	93.7
	65 Pyrene	202.00	28.931(0.902)	5097253	73.5	73.5
$	66 Terphenyl-d14	244.00	29.374(0.916)	3468657	75.1	75.1
	67 Butyl benzyl phthalate	149.00	30.678(0.957)	3115801	71.2	71.2
	68 Di(2-ethylhexyl) adipate	129.00	30.895(0.963)	2520770	66.7	66.7
	69 3,3'-Dichlorobenzidine	252.00	32.049(0.999)	398483	87.6	87.6(M)
	71 Benz(a)anthracene	228.00	32.049(0.999)	3291045	82.5	82.5
*	72 Chrysene-d12	240.00	32.070(1.000)	1276331	40.0	
	70 Bis(2-ethylhexyl) phthalate	149.00	32.158(1.003)	4782300	70.7	70.7
	73 Chrysene	228.00	32.136(1.002)	2945049	79.4	79.4
	74 Di-n-octyl phthalate **	149.00	33.789(1.000)	6988085	71.2	71.2
	75 Benzo(b)fluoranthene	252.00	34.890(1.000)	2309965	80.8	80.8
	76 Benzo(k)fluoranthene	252.00	34.977(0.000)	2554806	79.0	79.0(M)
	Benzo(a)pyrene **	252.00	35.916(1.000)	1879692	80.1	80.1
	Perylene-d12	264.00	36.101(1.000)	652608	40.0	(M)
	79 Indeno(1,2,3-cd)pyrene	276.00	40.565(0.000)	1692851	95.8	95.8(M)
	80 Dibenz(a,h)anthracene	278.00	40.673(0.000)	1356505	89.1	89.1(M)
	81 Benzo(g,h,i)perylene	276.00	41.935(0.000)	1332377	80.7	80.7(M)

C Flag Legend

- Compound response manually integrated.
- Operator selected an alternate compound hit.

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i Injection Date: 02-AUG-1996 07:15
Lab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
Analysis Type: WATER Init. Calibration Time: 15:51 13:17
Lab Sample ID: Method File: /chem/msd_2.i/2-080296.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
2-Fluorophenol	1.112	1.058	0.050	4.9	30.0
Aniline	1.113	1.050	0.050	5.6	30.0
Phenol-d5	1.062	1.118	0.050	5.3	30.0
Phenol **	1.085	1.313	0.050	21.0	30.0
Bis(2-chloroethyl) ether	1.202	1.176	0.050	2.1	30.0
2-Chlorophenol	1.283	1.257	0.050	2.0	30.0
1,3-Dichlorobenzene	1.511	1.545	0.050	2.2	30.0
1,4-Dichlorobenzene **	1.551	1.596	0.050	2.9	30.0
1,2-Dichlorobenzene	1.460	1.479	0.050	1.3	30.0
Benzyl alcohol	0.876	0.990	0.050	13.0	30.0
2-Methylphenol	0.932	0.888	0.050	4.7	30.0
Bis(2-chloroisopropyl) ether	1.021	1.063	0.050	4.2	30.0
N-Nitrosodi-n-propylamine *	0.699	0.775	0.050	10.8	30.0
4-Methylphenol	0.953	0.890	0.050	6.5	30.0
Hexachloroethane	0.671	0.697	0.050	3.8	30.0
Nitrobenzene-d5	0.424	0.439	0.050	3.4	30.0
Nitrobenzene	0.398	0.396	0.050	0.6	30.0
Isophorone	0.683	0.764	0.050	11.9	30.0
2-Nitrophenol **	0.265	0.276	0.050	3.9	30.0
2,4-Dimethylphenol	0.371	0.399	0.050	7.4	30.0
Bis(2-chloroethoxy)methane	0.376	0.391	0.050	4.0	30.0
2,4-Dichlorophenol **	0.313	0.341	0.050	9.0	30.0
Benzoic acid	0.218	0.230	0.050	5.3	30.0
1,2,4-Trichlorobenzene	0.385	0.419	0.050	8.8	30.0
Naphthalene	1.148	1.213	0.050	5.7	30.0
4-Chloroaniline	0.338	0.345	0.050	2.1	30.0
Hexachlorobutadiene **	0.224	0.249	0.050	11.1	30.0
4-Chloro-3-methylphenol **	0.350	0.324	0.050	7.4	30.0
2-Methylnaphthalene	0.745	0.788	0.050	5.8	30.0
Hexachlorocyclopentadiene *	0.259	0.263	0.050	1.7	30.0
2,4,6-Trichlorophenol **	0.322	0.337	0.050	4.8	30.0
2,4,5-Trichlorophenol	0.361	0.392	0.050	8.6	30.0
2-Fluorobiphenyl	1.446	1.520	0.050	5.1	30.0
2-Chloronaphthalene	1.202	1.220	0.050	1.5	30.0
2-Nitroaniline	0.315	0.319	0.050	1.4	30.0
Dimethyl phthalate	1.506	1.437	0.050	4.6	30.0
2,6-Dinitrotoluene	0.312	0.314	0.050	0.4	30.0
Acenaphthylene	1.850	1.848	0.050	0.1	30.0
3-Nitroaniline	0.170	0.165	0.050	3.4	30.0
Acenaphthene **	1.219	1.205	0.050	1.1	30.0
2,4-Dinitrophenol *	0.112	0.095	0.050	14.6	30.0
2,4-Dinitrotoluene	0.397	0.431	0.050	8.5	30.0
4-Nitrophenol *	0.134	0.119	0.050	11.2	30.0
Dibenzofuran	1.643	1.627	0.050	2.0	30.0
Diethyl phthalate	1.577	1.498	0.050	5.0	30.0

080

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

nstrument ID: msd_2.i Injection Date: 02-AUG-1996 07:15
ab File ID: BNA0101001.d Init. Calibration Date(s): 05/28/93 07/31/96
nalysis Type: WATER Init. Calibration Times: 15:51 13:17
ab Sample ID: Method File: /chem/msd_2.i/2-080296.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
Fluorene	1.284	1.363	0.050	6.1	30.0
4-Chlorophenyl phenyl ether	0.635	0.678	0.050	6.7	30.0
4-Nitroaniline	0.131	0.149	0.050	13.3	30.0
4,6-Dinitro-2-methylphenol	0.111	0.112	0.050	0.9	30.0
N-Nitrosodiphenylamine **	0.423	0.484	0.050	14.4	30.0
1,2-Diphenylhydrazine	2.092	2.114	0.050	1.1	30.0
2,4,6-Tribromophenol	0.137	0.172	0.050	25.5	30.0
4-Bromophenyl phenyl ether	0.300	0.330	0.050	10.0	30.0
Hexachlorobenzene	0.334	0.384	0.050	15.1	30.0
Pentachlorophenol **	0.123	0.142	0.050	15.6	30.0
Phenanthrene	1.345	1.492	0.050	10.9	30.0
Anthracene	1.243	1.334	0.050	7.3	30.0
Carbazole	0.636	0.720	0.050	13.1	30.0
Di-n-butyl phthalate	2.005	2.072	0.050	3.3	30.0
Fluoranthene **	1.145	1.341	0.050	17.1	30.0
Pyrene	2.175	1.997	0.050	8.2	30.0
Terphenyl-d14	1.448	1.359	0.050	6.2	30.0
Butyl benzyl phthalate	1.372	1.221	0.050	11.0	30.0
Di(2-ethylhexyl) adipate	1.185	0.988	0.050	16.7	30.0
3,3'-Dichlorobenzidine	0.143	0.156	0.050	9.5	30.0
Benz(a)anthracene	1.250	1.289	0.050	3.1	30.0
Bis(2-ethylhexyl) phthalate	2.119	1.873	0.050	11.6	30.0
Chrysene	1.162	1.154	0.050	0.7	30.0
Di-n-octyl phthalate **	5.966	5.313	0.050	10.9	30.0
Benzo(b)fluoranthene	1.739	1.756	0.050	1.0	30.0
Benzo(k)fluoranthene	1.966	1.942	0.050	1.2	30.0
Benzo(a)pyrene **	1.428	1.429	0.050	0.1	30.0
Indeno(1,2,3-cd)pyrene	1.075	1.287	0.050	19.8	30.0
Dibenz(a,h)anthracene	0.926	1.031	0.050	11.4	30.0
Benzo(g,h,i)perylene	1.008	1.017	0.050	0.8	30.0

Ecosys, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd_2.i
Lab File ID: BNA0101001.d
Lab Sample ID:
Analysis Type: OTHER
Method File: /chem/msd_2.i/2-080296.b/MA-BNA.m
Misc Info: CONTINUE CALIBRATION

Calibration Date: 08/02/96
Calibration Time: 0802
Sample Type: WATER
Level: LOW

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	% DIFF
8 1,4-Dichlorobenzene-	811352	405676	1622704	811352	0.00
26 Naphthalene-d8	2470959	1235479	4941918	2470959	0.00
40 Acenaphthene-d10	1568314	784157	3136628	1568314	0.00
59 Phenanthrene-d10	1956080	978040	3912160	1956080	0.00
72 Chrysene-d12	1276331	638165	2552662	1276331	0.00
78 Perylene-d12	657608	328804	1315216	657608	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	% DIFF
8 1,4-Dichlorobenzene-	13.34	12.84	13.84	13.34	0.00
26 Naphthalene-d8	16.74	16.24	17.24	16.74	0.00
40 Acenaphthene-d10	21.33	20.83	21.83	21.33	0.00
59 Phenanthrene-d10	25.20	24.70	25.70	25.20	0.00
72 Chrysene-d12	32.07	31.57	32.57	32.07	0.00
78 Perylene-d12	36.10	35.60	36.60	36.10	0.00

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

Data File: /chem/msd_2.i/2-080296.b/BNAC101001.d
Date : 02-AUG-1996 07:15
Instrument : msd_2.i
Sample ID :
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00

SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107920	Extraction Method No.: 3510
Batch No(s): 0801960004	Date Extracted: 8/1/96
Lab File ID: BNA0801008	Date Analyzed: 8/1/96
Lab Sample ID: AB35823	Time Analyzed: 15:26
Cleanup Method: NA	Level: Low
Instrument ID: MSD-2	Matrix: Water

This method blank applies to the following samples, LCS and LCSD.

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	NA	AB36646 LCS	BNA0201002	8/2/96
2	NA	AB36647 LCSD	BNA0301003	8/2/96
3	#45-T1-GW	AB35820	BNA0401004	8/2/96
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QA/QC Officer

Comments:

SemiVolatile LCS/LCSD Recovery

Lab Name: EcoSys, Inc. Client: ACE SAD

Ledger No(s): 107920 Matrix Spike/MS Dup: AB36646 LCS

Batch No(s): 0801960004 AB36647 LCSD

Lab File ID: BNA0201002/BNA0301003

Compound	Spike Added (ug/L)	Sample Conc (ug/L)	LCS Conc (ug/L)	LCS% Recovery	#	QC Limits Recovery
Phenol	100	NR	66	66		12-110
2-Chlorophenol	100	NR	72	72		27-123
1,4-Dichlorobenzene	50	NR	37	74		36-97
N-Nitroso-di-n-propylamine	50	NR	41	83		41-116
1,2,4-Trichlorobenzene	50	NR	38	76		39-98
4-Chloro-3-methylphenol	100	NR	90	90		23-97
Acenaphthene	50	NR	43	85		46-118
4-Nitrophenol	100	NR	72	72		10-80
2,4-Dinitrotoluene	50	NR	41	82		24-96
Pentachlorophenol	100	NR	71	71		9-103
Pyrene	50	NR	55	110		26-127

Compound	Spike Added (ug/L)	LCSD Conc (ug/L)	LSCD% Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Phenol	100	64	64		4		42	12-110
2-Chlorophenol	100	71	71		1		40	27-123
1,4-Dichlorobenzene	50	37	74		0		28	36-97
N-Nitroso-di-n-propylamine	50	41	81		2		38	41-116
1,2,4-Trichlorobenzene	50	39	77		2		28	39-98
4-Chloro-3-methylphenol	100	91	91		1		42	23-97
Acenaphthene	50	42	83		2		31	46-118
4-Nitrophenol	100	71	71		1		50	10-80
2,4-Dinitrotoluene	50	40	80		3		38	24-96
Pentachlorophenol	100	68	68		4		50	9-103
Pyrene	50	55	111		0		31	26-127

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

* Values outside of QC limits

NR = Not Required

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

QA/QC Officer 13 Aug 08

Comments: _____

SemiVolatile Surrogate Recovery (Water)

Lab Name: EcoSys, Inc. Client: ACE-SAD

Ledger No(s).: 107920 Level: Low

Batch No.(s): 0801960004

Lab	S1		S2		S3		S4		S5		S6		Total
Sample No.	(2FP)	#	(PHL)	#	(NBZ)	#	(FBP)	#	(TBP)	#	(TPH)	#	Out
AB35823 MB	47		25		75		76		84		123		0
AB36646 LCS	73		60		74		73		99		109		0
AB36647 LCSD	78		57		75		70		96		107		0
AB35820	50		26		101		80		100		107		0

Column used to flag recovery values
* = Values outside of required QC limits
ND = Not Detected

	QC Limits
S1 (2FP) 2-Fluorophenol	21-110
S2 (PHL) Phenol-d5	10-110
S3 (NBZ) Nitrobenzene-d5	35-114
S4 (FBP) 2-Fluorobiphenyl	43-116
S5 (TBP) 2,4,6-Tribromophenol	10-123
S6 (TPH) Terphenyl-d14	33-141

QA/QC Officer

Comments:

TAB 9

MANIFESTS

45

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749
Ludowici, Georgia 31316
Office (912) 368-7488 • Plant (912) 876-8085

Date _____ 19__ Load No. 11

Customer: Triple "R" Mgmt. Description: PCS

Project Number: RRR 104

Location: Ft. Stewart County: Liberty

43620 lb Net
23000 lb Tare
66620 lb Gross
12:23 PM AU 12 96

~~00 lb Net~~
~~66620 lb Tare~~
~~66620 lb Gross~~
~~12:22 PM AU 12 96~~

Signature of Weigher

TONS: 21.81 TOTAL TONS: 222.80

TRUCKER: Hendrix TRUCK NO. 33

DRIVER: Robert Stovall TICKET NO. 58829

VIP-1518-HV

45

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 50013

1. Page 1 of

2. Generator's Name and Mailing Address
Ft. Stewart
Hinesville, GA 31313

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

4. Transporter 1 Company Name
Hendricks Hauling

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Triple R Management, Inc.
c/o Reynolds Constr Co.
Rt. 84
Ludowici, GA 31316

A. Transporter's Phone
B. Transporter's Phone 912-427-6756
C. Facility's Phone 912-756-3655

7. Waste Shipping Name and Description	8. Containers No.	8. Containers Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	1	TT	18.00	CY
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

11. Special Handling Instructions and Additional Information

8101

Tank # 45

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

Printed/Typed Name	Signature	Month	Day	Year
Tom C. Fry	Tom C. Fry	08	06	96

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Robert Stovall	Robert Stovall			

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Charles Pruitt	Charles Pruitt	08	12	96

FACILITY

15. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
		08	12	96

ORIGINAL – RETURN TO GENERATOR

REYNOLDS CONSTRUCTION COMPANY

Highway 84 — P. O. Box 749
Ludowici, Georgia 31316
Office (912) 368-7488 • Plant (912) 876-8085

Date _____ 19___ Load No. 12

Triple "R" Mgnt. PCS
Customer Description

RRR 104
Project Number

Ft. Stewart Liberty
Location County

43100 lb Net
20080 lb Tare
63180 lb+ Gross
12:27 PM AU 12 96

Signature of Weigher

TONS: 21.55 TOTAL TONS: 214.35

Hendrix 44
TRUCKER TRUCK NO.

DRIVER TICKET NO. 58831

VIP-1518-HV

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 5001.6

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address
Ft. Stewart
Hinesville, GA 31313

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

4. Transporter 1 Company Name
Hendricks Hauling

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Triple R Management, Inc.
c/o Reynolds Constr Co.
Rt. 84
Ludowici, GA 31316

A. Transporter's Phone
B. Transporter's Phone 912-427-6758
C. Facility's Phone 912-756-3655

7. Waste Shipping Name and Description	8. Containers No.	8. Containers Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	1	TT	18.00	CY
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

11. Special Handling Instructions and Additional Information

8101

Tank # 45

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

Printed/Typed Name: Tom C. Fry — Signature: Tom C. Fry — Month 08 Day 06 Year 96

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RAYMOND G. BACA — Signature: Raymond G. Baca — Month 08 Day 12 Year 96

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles Pruitt — Signature: Charles Pruitt — Month Day Year

FACILITY

15. Discrepancy Indication Space

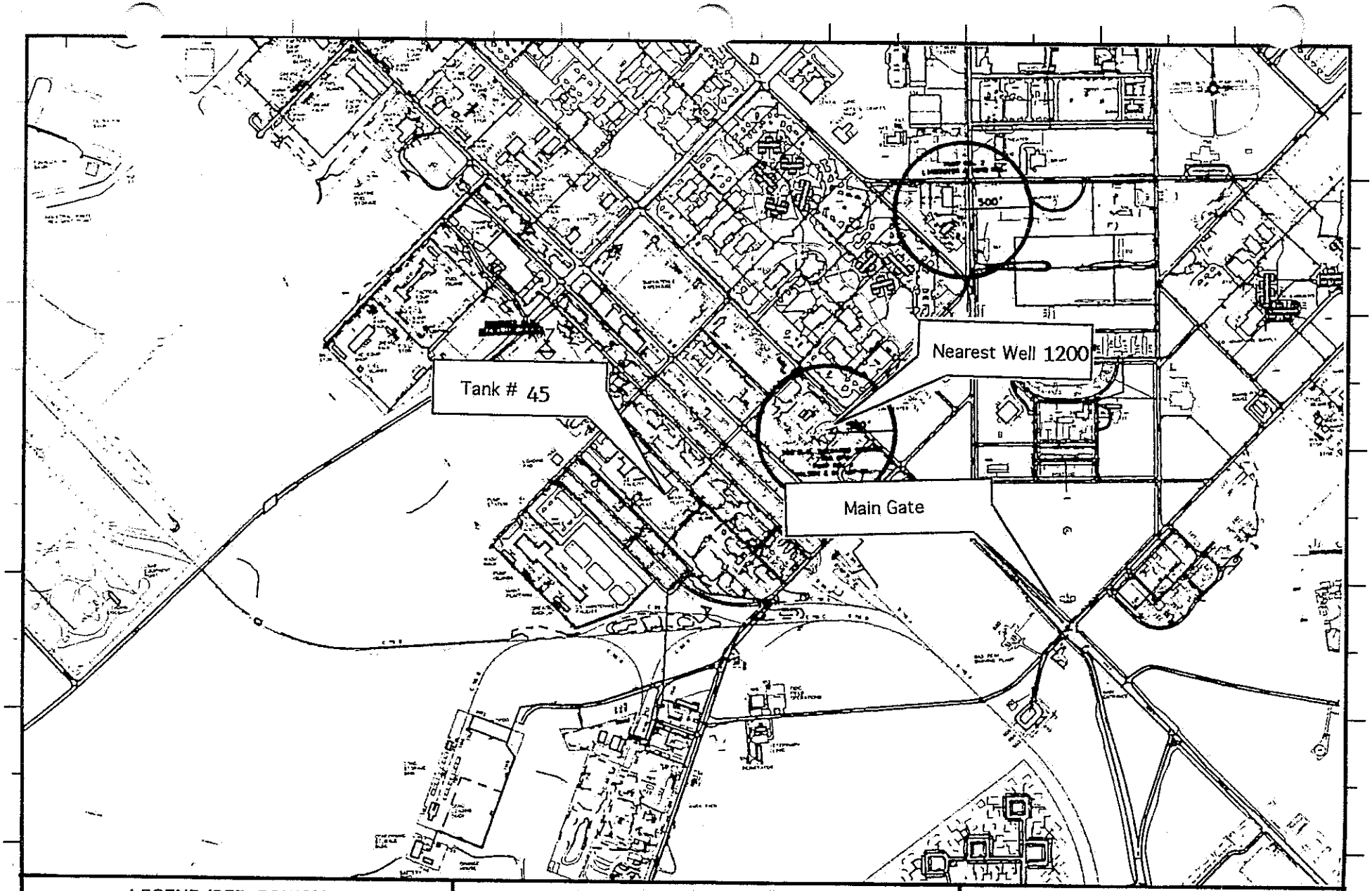
16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month 08 Day 12 Year 96

ORIGINAL – RETURN TO GENERATOR

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart.

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

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

Area Map for Tank # 45
Fort Stewart
Hinesville, Georgia

DRAWING NO.: FIGURE 1