

N00639.AR.001836
NSA MID SOUTH
5090.3a

CLOSURE REPORT TANK N-12MILLINGTON SUPPACT TN
8/1/1996
GEOSCIENCES, INC

00442

⑧

**CLOSURE REPORT
NAVAL SUPPORT ACTIVITY, MEMPHIS
TANK N-12
CONTRACT NO. N62467-96-C-0720**

Prepared By

**GEOSCIENCES, INC.
5021 MERCER UNIVERSITY DRIVE
SUITE D-2
MACON, GEORGIA 31210**



August 1996

STATE OF TENNESSEE DIVISION OF UNDERGROUND STORAGE TANKS

PERMANENT CLOSURE REPORT

The Responsible Party (RP) of the underground storage tank (UST) system shall complete and submit the original of this report within 45 days of collecting samples during the UST system closure assessment. Tennessee Code Annotated (T.C.A.) §68-215-103(16) defines Responsible Party as the owner and/or operator of a petroleum site or any person who at the time of the release which caused the contamination was an owner and/or operator of a petroleum underground storage tank.

Include the following appendices in the report. Attach extra sheets if necessary.

Appendix A: A table containing the field screening and analytical results. All results shall be reported in parts per million (ppm). The results shall be properly identified and correlated with the sampling locations on the site map. If water was encountered during closure-in-place, include the monitoring well information required in the Environmental Assessment Guidelines.

Appendix B: The original or carbon copy of the laboratory analysis sheets. Photocopies are not acceptable. All laboratory analysis sheets shall include the information specified in the *UST System Closure Assessment Guidelines*.

Appendix C: Documentation for treatment and/or disposal of soil, sludge, liquid, tanks and piping (i.e. Application to Treat Petroleum Contaminated Soil, Solid Waste Permits, Landfill Disposal Manifests, etc.).

Appendix D: A copy of the Amended Notification form shall be submitted with this report. Send the original Amended Notification form to the UST Nashville Central Office.

1. UST Facility ID 0 - 791696
2. Facility Name Naval Support Activity, Building N-12
3. Division personnel with the appropriate field office were notified at least one working day before collecting soil samples for the UST system closure assessment. Yes No If yes:
 Person contacted _____
 Field office _____
 Date _____
 Reported by _____
4. The tank atmosphere and work zone were regularly tested with a combustible gas indicator in accordance with UST regulations Appendix 6(2) and (3). Yes No

DEC 20 1996
ROICC MEMPHIS

5. Method of purging tank atmosphere:
Carbon dioxide gas ___ Nitrogen ___ Eductor-type air movers XX
Diffused air blower ___ Dry ice (1.5 lb/100 gal.) ___
Other _____
6. Product piping was drained into the tank. Yes XX No ___
7. Product piping was: Capped ___ Removed XX
8. All liquid/sludge was removed from the UST system. Yes XX No ___
Not encountered ___
9. Method of liquid/sludge storage: Stored in DOT approved Drums, Naval Support Activity, Memphis
10. Method of liquid/sludge disposal: Turned over to Navy for disposal.
Manifests included in Appendix C. Yes ___ No XX
Not applicable ___
11. Tank was labeled in accordance with the UST Regulations Appendix 6(4)(f).
Yes XX No ___ Not applicable ___
12. Method of UST system storage/disposal:
Cut up for disposal XX Stored on site ___ Stored off site ___
Other _____
- UST systems stored on site or off site are subject to Rules 1200-1-15-.07(2)(e), (f) and (g) and Appendix 7.
13. Location of UST system storage/disposal Lazarov Brothers, 1166 N. Seventh Street
Memphis, TN
Certificate of disposal included in Appendix C. Yes XX No ___
If no, explain _____
14. Amount of material excavated during UST system closure: 1 cubic yards.

15. Total amount of contaminated material overexcavated after removal of the UST system:
0 cubic yards.

If more than 100 cubic yards of material was overexcavated, Division personnel in the appropriate field office should have been contacted.

Division personnel in the appropriate field office were contacted. Yes ___ No ___

Not applicable XX

If yes:

Person contacted _____

Field Office _____

Date _____

Reported by _____

All excavated material remaining on the site of generation or on a site owned by the responsible party or subsidiary of the responsible party shall be placed on and covered with plastic and bermed. Sampling the excavated material in accordance with Technical Guidance Document - 005, must be completed prior to proper disposal.

If petroleum contaminated material is managed in accordance with Technical Guidance Document-009, the appropriate *Application to Treat Petroleum Contaminated Soil* shall be completed and submitted to the local field office for approval. If the contaminated material is to be treated on a site owned by a Third Party, contact the Tennessee Division of Solid Waste Management.

All excavations shall be backfilled with material containing levels at or below 5 ppm benzene and/or 100 ppm TPH.

16. Mark all that apply regarding the management of the excavated material:

Stockpiled on site ___ Thermal treatment on site ___ Thermal treatment off site ___

Landfilled ___ Other Place in drum, turned over to Navy _____

Documentation is included in Appendix C. Yes ___ No ___ If no, explain why _____

17. Explain why the method in #16 was chosen for management of the excavated material _____

Navy Decision.

18. All samples were placed directly into the appropriate containers, immediately after collection. Yes XX No ___

19. Immediately after collection all samples were placed on ice and maintained at 4°C until delivered to a Division approved laboratory. Yes XX No ___

20. Laboratory confirmation of petroleum contamination or discovery of free product was reported to the Division within 72 hours. Yes ___ No ___ Not applicable XX
 If yes:
 Person contacted _____
 Field office _____
 Date _____
 Reported by _____
21. Water was encountered in the soil borings during closure-in-place.
 Yes ___ No XX Not applicable XX
 If encountered, was water sampled. Yes ___ No ___
 Monitoring well information is in Appendix A. Yes ___ No ___
 Analytical results are in Appendix B. Yes ___ No ___
22. Water was encountered during excavation of the UST system. Yes ___ No XX
 Amount of water removed: _____ gals.
 Water recharged within 24 hours. Yes ___ No ___
 Recharge water was sampled. Yes ___ No ___
 Analytical results are in Appendix B. Yes ___ No ___
 Method of water disposal: _____
 Manifests included in Appendix C. Yes ___ No ___
23. If more than 500 gallons of water were removed, Division personnel in the appropriate field office should have been contacted.
 Division personnel in the appropriate field office were contacted. Yes ___ No ___
 Not applicable XX
 If yes:
 Person contacted _____
 Field Office _____
 Date _____
 Reported by _____
24. Bedrock was encountered during UST system removal/closure-in-place.
 Yes ___ No XX
 All contaminated material above the applicable cleanup level was excavated.
 Yes ___ No XX Not applicable ___
 Soil was sampled from floor of excavation. Yes XX No ___
 Analytical results are in Appendix B. Yes XX No ___
25. The original Notification Form reporting the closure of the tank system was submitted to the Nashville Central Office. Yes XX No ___

26. Failure to submit a Notification Form may result in the assessment of additional tank fees.

THIS PERMANENT CLOSURE REPORT WILL NOT BE PROCESSED WITHOUT THE COMPLETION AND SUBMITTAL OF THE APPROPRIATE APPENDICES IN THEIR ENTIRETY.

27. An updated site map shall be provided in this space showing buildings, utilities, areas of overexcavation, borings, and sample points. The map shall also include soil stockpiles, their dimensions in feet, and properly labeled screening and sampling points. A measurement shall be included from one corner of the tank excavation to a permanent structure (i.e. building, power pole, fire hydrant, etc.). The site map shall include a north arrow.

See figures 1 and 2 in Appendix A.

I certify under penalty of law, including but not limited to penalties for perjury, that the information contained in this form and on any attachments is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for intentional violations.

UST System RP or RP's authorized
representative (Print name) Signature Date

Title (Print)
Jon A. Spaller, P.G. Jon A Spaller 12/18/96

P.E. or P.G. (Print name) Signature Date

TN0299

TN Registration #

Note: Each of the above signatures shall be notarized separately with the following statement.

STATE OF GEORGIA COUNTY OF BIBB

Sworn to and subscribed before me by Jon A. Spaller on this date

12/18/96. My commission expires My Commission Expires Oct. 16, 2005

DEBBIE W. SCARBOROUGH Debbie W. Scarborough 12/18/96
Notary Public (Print Name) Signature Date

Stamp/Seal

I certify under penalty of law, including but not limited to penalties for perjury, that the information contained in this form and on any attachments is true, accurate and complete to the best of my knowledge, information and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for intentional violations.

Darryl K CREASY, PUBLIC WORKS OFFICER

UST System RP or RP's authorized representative (Print name)

D.K.C.
Signature

14 JAN 97
Date

Title (Print)

P.E. or P.G. (Print name)

Signature

Date

TN Registration #

Note: Each of the above signatures shall be notarized separately with the following statement.

STATE OF TENNESSEE COUNTY OF SHELBY

Sworn to and subscribed before me by DARRYL K CREASY on this date

14 JAN 97 My commission expires 08/97.

ERIC M. HURT
LT. JAGC, USNR

Notary Public (Print Name)

Eric M. Hurt
Signature

14 JAN 97
Date

Stamp/Seal

BUILDING N-12

FACILITY ID NUMBER N/A

TABLE 1
FIELD SCREENING RESULTS

PID/FID READING	LOCATION	DEPTH
10 TO 100	Side Walls	0 to 3 feet
260 to 570	Side Walls	3 to 6 feet
>2000	Pit Bottom	6 to 7 feet

Results in PPM

TABLE 2
ANALYTICAL RESULTS

SAMPLE ID #	TPH (GRO)
N-12, North (-7 feet)	8900
N-12, South (-7 feet)	2700

Results in PPM
ND = None Detected

See Appendix B for complete report

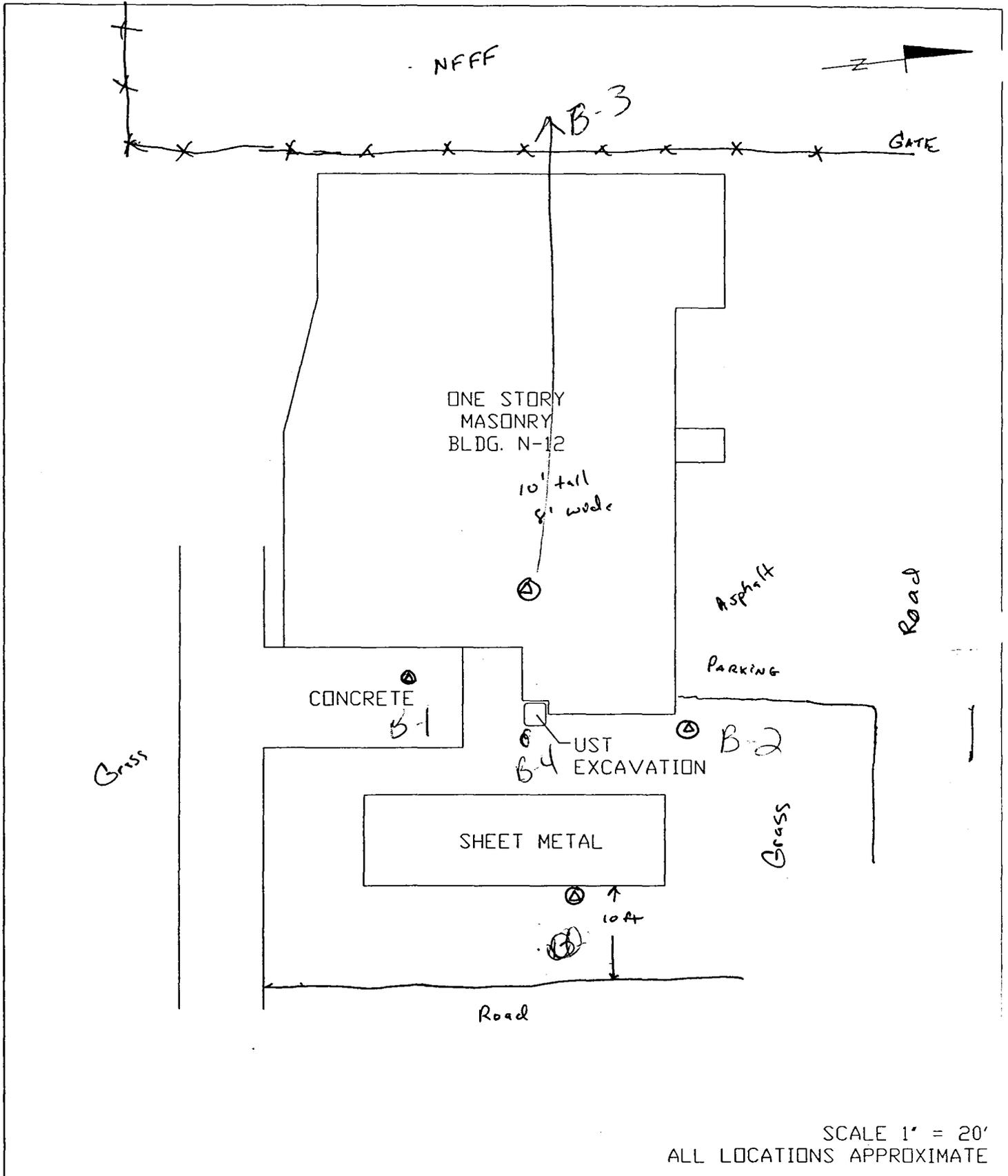
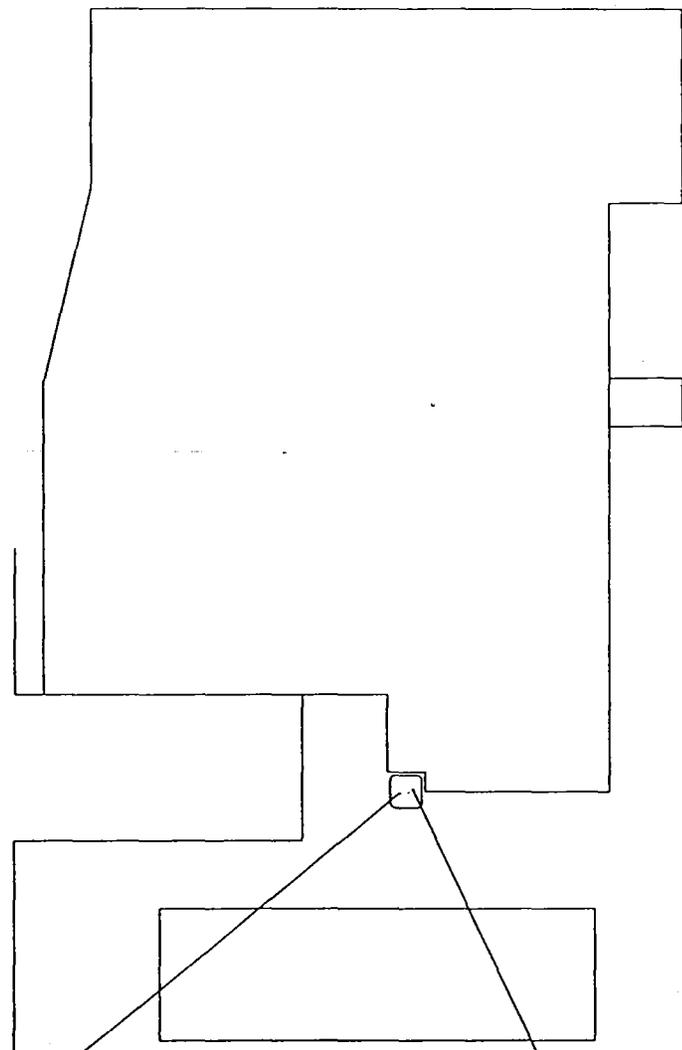


FIGURE 1
 SITE MAP, BLDG. N-12
 NAVAL SUPPORT ACTIVITY, MEMPHIS
 MILLINGTON, TENNESSEE
 GEOSCIENCES JOB NO. MCE-96-515A



Geosciences inc.



LAB ID: AB07858
SAMPLE ID: N-12, SOUTH (-7')
TPH = 2700 ppm
BENZENE = 0.027 ppm

LAB ID: AB07857
SAMPLE ID: N-12, NORTH (-7')
TPH = 8900 ppm
BENZENE = 1.9 ppm

SCALE 1' = 20'
ALL LOCATIONS APPROXIMATE

FIGURE 2
SITE MAP, BLDG. N-12
NAVAL SUPPORT ACTIVITY, MEMPHIS
MILLINGTON, TENNESSEE
GEOSCIENCES JOB NO. MCE-96-515A



Geosciences inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770) 449-8800

FL Certification # E87429

NC Certification # 483

SC Certification # 98000

LABORATORY REPORT

Client: Omega Environmental Services	Client Sample ID: N-12,NORTH (-7)	Date Sampled: 09/19/96
Client Contact: DOUG DRIVER	Lab Sample ID: AB07857	Date Received: 09/24/96
Client Proj No: N/A	Lab Project# 11113	Date Reported: 12/04/96
Client Proj Name: MEMPHIS NAS, TN.		Sample Matrix: SOIL

Compound	Date Analyzed:	Analyst:	Method Ref.:	Reported Detection Limits	RESULTS	Units
BENZENE REPORT						
Benzene	10/01/96	LM	SW846-8020	1000	1,900	ug/kg
BENZENE QC REPORT						
1,4-Difluorobenzene (Surrogate)	10/01/96	LM	SW846-8020		178 %	ug/kg
4-Bromofluorobenzene (Surrogate)	10/01/96	LM	SW846-8020		107 %	ug/kg
Gasoline Range Organics	10/01/96	LM	SW846 8015	1000	8,900	mg/kg
TPH (GRO) QC REPORT						
1,4-Difluorobenzene (Surrogate)	10/01/96	LM	SW846 8015		158 %	mg/kg
4-Bromofluorobenzene (Surrogate)	10/01/96	LM	SW846 8015		146 %	mg/kg


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SC Certification # 98017

LABORATORY REPORT

Client: Omega Environmental Services

Client Sample ID: N-12, SOUTH (-7)

Date Sampled: 09/19/96

Client Contact: DOUG DRIVER

Lab Sample ID: AB07858

Date Received: 09/24/96

Client Proj No: N/A

Lab Project# 11113

Date Reported: 12/04/96

Client Proj Name: MEMPHIS NAS, TN.

Sample Matrix: SOIL

Compound	Date Analyzed:	Analyst:	Method Ref.:	Reported Detection Limits	RESULTS	Units
BENZENE REPORT						
Benzene	10/01/96	LM	SW846-8020	10	27	ug/kg
BENZENE QC REPORT						
1,4-Difluorobenzene (Surrogate)	10/01/96	LM	SW846-8020		652 %	ug/kg
4-Bromofluorobenzene (Surrogate)	10/01/96	LM	SW846-8020		93 %	ug/kg
Gasoline Range Organics	10/01/96	LM	SW846 8015	1000	2,700	mg/kg
TPH (GRO) QC REPORT						
1,4-Difluorobenzene (Surrogate)	10/01/96	LM	SW846 8015		22 %	mg/kg
4-Bromofluorobenzene (Surrogate)	10/01/96	LM	SW846 8015		65 %	mg/kg


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SC Certification # 90005

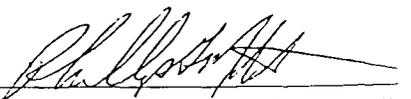
LABORATORY REPORT

Client: **Omega Environmental Services**
Client Contact: **DOUG DRIVER**
Client Proj No: **N/A**
Client Proj Name: **MEMPHIS NAS, TN.**

Client Sample ID: **METHOD BLANK**
Lab Sample ID: **AB07859**
Lab Project# **11113**

Date Sampled: **09/19/96**
Date Received: **09/24/96**
Date Reported: **12/04/96**
Sample Matrix: **SOIL**

Compound	Date Analyzed:	Analyst:	Method Ref.:	Reported Detection Limits	RESULTS	Units
BENZENE REPORT						
Benzene	10/01/96	LM	SW846-8020	5	Not detected	ug/kg
BENZENE QC REPORT						
1,4-Difluorobenzene (Surrogate)	10/01/96	LM	SW846-8020		101 %	ug/kg
4-Bromofluorobenzene (Surrogate)	10/01/96	LM	SW846-8020		75 %	ug/kg
Gasoline Range Organics	10/01/96	LM	SW846 8015	10	Not detected	mg/kg
TPH (GRO) QC REPORT						
1,4-Difluorobenzene (Surrogate)	10/01/96	LM	SW846 8015		104 %	mg/kg
4-Bromofluorobenzene (Surrogate)	10/01/96	LM	SW846 8015		84 %	mg/kg


Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.
6017 Financial Drive, Norcross, Georgia 30071, Phone (770) 449-8800

CASE NARRATIVE

Project Number: 11113

Client Name: Omega Environmental Services

The following problems were encountered with this project:

1) The following sample(s) required dilution raising the Reported Detection Limits due to high analyte concentrations:

GASOLINE RANGE ORGANICS

N-12,NORTH(-7)* N-12,SOUTH(-7)*

BENZENE by Method 8020

N-12,NORTH(-7)* N-12,SOUTH(-7)*

*The recovery for one surrogate for this sample(s) was outside of acceptable limits due to matrix interferences. The remaining surrogate was within limits for this sample(s).

No other problems were encountered with this project.


Phillip G. Mitchell
Quality Assurance Manager

ACCURA ANALYTICAL LABORATORY, INC.
6017 Financial Drive, Norcross, Georgia 30071, Phone (770) 449-8800

CASE NARRATIVE

Project Number: 11404

Client Name: Omega Environmental Services

The following problems were encountered with this project:

1) The following sample(s) required dilution raising the Reported Detection Limits due to high analyte concentrations:

TCLP BENZENE
N-12

No other problems were encountered with this project. Note that TCLP analyte concentrations that are found to be above the regulatory limits are marked with asterisks.



Phillip G. Mitchell
Quality Assurance Manager



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

76452

6017 Financial Drive, Norcross, GA 30071-2925
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Omega Environmental SVS
 Address: 4661 Herndonmill Rd. Site B Tucker GA 30084
 Contact Name: Long Driver
 Contact Phone # 770 621 9444 Fax # _____
 Project Name: Memphis NAS, TN
 Client Project # _____
 Client P.O. # Call for P.O. # please

For Laboratory Use Only						
Custody Seal:	Y	N	Page _____ OF _____			
QC Level:	N	1	2	3	4	Init/Temp: _____
Entered into LIMS:	_____	AAL Project # _____				
Sample Condition:	_____					

ANALYSIS REQUESTED										Remarks	AAL#: AB	
TPH	GRD	Benzene	TPH	DRD								
✓	✓	✓									IF not over	
✓	✓	✓									100 ppm on GRD, then call for consideration of DRD.	

Samplers: (signature) [Signature] Samplers: (printed) Travis Sheppard

Station #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers
N-12	9-19-96					North (-7)	1
N-12	9-19-96					South (-7)	1

Relinquished By: <u>[Signature]</u>	Date / Time: <u>9-23-96</u>	Received By: _____	Date / Time: _____	Special Requirements Or Remarks: _____
Relinquished By: _____	Date / Time: _____	Received At Laboratory By: _____	Date / Time: _____	Turnaround Time Requested: _____

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770) 449-8800

FL Certification # E8742

NC Certification # 48

SC Certification #

LABORATORY REPORT

Client: Omega Environmental Services	Client Sample ID: N-12	Date Sampled: 10/30/96
Client Contact: JOHN MOUNT	Lab Sample ID: AB09585	Date Received: 10/31/96
Client Proj No: BLDG#N-12	Lab Project# 11404	Date Reported: 11/05/96
Client Proj Name: MEMPHIS NAS CONTRACT# N62467-96-4-0720		Sample Matrix: LIQUID

Compound	Date Analyzed:	Analyst:	Method Ref.:	Reported Detection Limits	RESULTS	Units
Ignitability/Flash Point	11/05/96	JMS	SW846-1010	68	> 140	deg F
TCLP Lead	11/04/96	SCH	EPA 1311/200.7	1.0	Not detected	mg/L
TCLP BENZENE REPORT						
Benzene	11/04/96	LM	SW846-1311/8020	10	16 *	mg/L
TCLP BENZENE QC REPORT						
1,4-Difluorobenzene (Surrogate)	11/04/96	LM	SW846-1311/8020		89 %	mg/L
Bromofluorobenzene (Surrogate)	11/04/96	LM	SW846-1311/8020		99 %	mg/L


 Accura Analytical Laboratory, I

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E8742

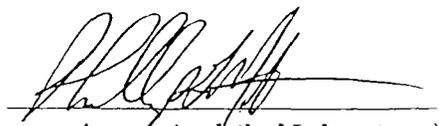
NC Certification # 48

SC Certification

LABORATORY REPORT

Client: Omega Environmental Services	Client Sample ID: METHOD BLANK	Date Sampled: 10/30/96
Client Contact: JOHN MOUNT	Lab Sample ID: AB09586	Date Received: 10/31/96
Client Proj No: BLDG#N-12	Lab Project# 11404	Date Reported: 11/05/96
Client Proj Name: MEMPHIS NAS CONTRACT# N62467-96-4-0720		Sample Matrix: LIQUID

Compound	Date Analyzed:	Analyst:	Method Ref.:	Reported Detection Limits	RESULTS	Units
TCLP Lead	11/04/96	SCH	EPA 1311/200.7	1.0	Not detected	mg/L
TCLP BENZENE REPORT						
Benzene	11/04/96	LM	SW846-1311/8020	1	Not detected	mg/L
TCLP BENZENE QC REPORT						
1,4-Difluorobenzene (Surrogate)	11/04/96	LM	SW846-1311/8020		117 %	mg/L
Bromofluorobenzene (Surrogate)	11/04/96	LM	SW846-1311/8020		76 %	mg/L



Accura Analytical Laboratory, Inc.

Naval Support Activity, Memphis
Millington, Tennessee

Subject: Storage Tanks and Solid Waste Management
Units Removal
Certification of Destruction
Contract #N62467-96-R-0720

The undersigned certifies that the UST(s) listed below were removed, transported, cleaned and scrapped in general accordance with the following:

American Petroleum Institute (API)
API RP 1604
API PUBL 2015
Code of Federal Regulation
29 CFR 1910
40 CFR 280
Corps of Engineers (COE)
COE EM-385-1-1

The UST was received from: NAVAL SUPPORT ACTIVITY, MEMPHIS

For destruction, the UST was delivered to: OMEGA ENVIRONMENTAL SERVICES, INC.

UST ID#: N-12

Place of Origin: BLDG. N-12

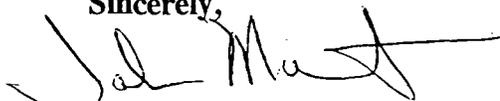
Date: 10-15-96

Buyer: LAZAROV BROTHERS

Seller: OMEGA ENVIRONMENTAL SERVICES, INC.

If there are any questions regarding this Certificate of Destruction, please contact John Mount or John Fleming at Omega Environmental Services, Inc. at (770) 621-9414.

Sincerely,



John A. Mount
Project Manager

Lazarov Bros.
North 7th Street
Memphis Tennessee 38107

To Whom It may Concern:

On October 8, 1996 we received scrap metal from Omega Environmental Services. Cash was given to Bobby Styles of Omega Environmental Services for the amount shown on settlement reports 1753 and 1709.

A handwritten signature in cursive script that reads "Michael Wexler". The signature is written in dark ink and is positioned above the typed name.

Michael Wexler
Lazarov Brothers

LAZAROV BROS.

1167 North 7th St.
Memphis, TN 38107

SETTLEMENT REPORT

No. 1709

Used From:

Date _____

Settlement Report # _____

Customer # _____

W/2/88

23920

#2 Steel Unprepared 19920 12780 0 7140 25.000 / MT 89.25

BOBT

BOBBY STYLES

17125 OLD MILL RD

LITTLE ROCK, AR 72206

7140

89.25

CASH

Bobby Styles

TOTAL

LESS FREIGHT _____

LESS ADVANCE _____

BALANCE DUE _____

CUSTOMER

LAZAROV BROS.

1167 North 7th St.
Memphis, TN 38107

SETTLEMENT REPORT

No. 1753

Used From:

Date _____

Settlement Report # _____

[Handwritten signature]

Customer # _____

10/8/56

23964

15 #2 Steel Unprepared 20140 12820 0 7320 25.000 / NT 91.50

BOST

BORGE STILES

17125 OLD MILL RD

LITTLE ROCK, AR 72205

7320

91.50

Cash

Bobby Stiles

TOTAL

--	--	--	--	--

LESS FREIGHT _____

LESS ADVANCE _____

BALANCE DUE _____

CUSTOMER