

N61165.AR.005238
CNC CHARLESTON
5090.3a

NO FURTHER ACTION (NFA) UNDERGROUND STORAGE TANK (UST) ASSESSMENT
REPORT DATED 19 OCTOBER 1998 FOR BUILDING 644 (PHYSICAL TRAINING COMPLEX)
CNC CHARLESTON SC
12/07/1998
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



7 December 1998

2600 Bull Street
Columbia, SC 29201-1708

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Department of the Navy
Southern Division NFEC
P.O. Box 190010
North Charleston, SC 29419-9010
Attention: Mr. Gabriel Magwood

Re: **Underground Storage Tank Assessment Report dated 19 October 1998**
Building 644 (Physical Training Complex) (Site Identification # 15405-General File)
Charleston Naval Complex/Charleston Naval Base
Charleston, SC
Charleston County

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides a narrative describing closure activities and analytical results of environmental sampling conducted to determine if releases have occurred as a result of operation of the referenced vessel and/or associated piping system. The analytical results provided indicate that concentrations of BTEX compounds were detected above established method detection limits in soil grab samples obtained from the UST excavation and/or piping run excavation. These results are below levels proposed in the SCAP (Soil Corrective Action Plan amended 30 July 1997) for the Charleston Naval Complex. In this regard, the employed closure activities and sampling results appear to indicate that no additional endeavors for remedial actions and/or contaminant characterization is warranted for Building 644 at this time.

With consideration to the above comments, the Department has reviewed the referenced environmental data. Based on the information and analytical data submitted, the Department recognizes that the Department of the Navy and Charleston Naval Complex/Charleston Naval Base has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Charleston Naval Complex/Charleston Naval Base
7 December 1998
page 2

Should you have any questions please contact me at (803) 734-5328.

Sincerely,



Paul L. Bristol, Hydrogeologist
Groundwater Quality Section
Bureau of Water



Tom Knight, Manager
Groundwater Quality Section
Bureau of Water

cc: Trident District EQC

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

Li 10.30.98
LO 12.7.98

Submit Completed Form to:

Date Received
State Use Only

UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

NFA
Σ
Σ

I OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office			
Mailing Address: P.O. Box 190010			
City: N. Charleston	State: SC	Zip Code: 29419-9010	
Area Code: 843 Telephone Number: 743-9985 Contact Person: Henry N. Shepard II, P. E.			

II SITE IDENTIFICATION AND LOCATION

Site I.D. #:	Unregulated		
Facility Name:	US Border Patrol, Physical Training Complex, Building 644		
Street Address:	Dyess Avenue		
City:	North Charleston, 29405-2413	County:	Charleston

III CLOSURE INFORMATION

Closure Started: 18 Aug 1998	Closure Completed: 17 Sept 1998
Number of USTs Closed: 1	
N/A Consultant	SPORTENVDETHASN UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

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

Henry Shepard II, P. E.	
Name (Type or Print)	
<i>Henry N. Shepard II PE</i>	10/8/98
Signature	

RECEIVED

OCT 21 1998

V. UST INFORMATION

- A. Product.....
- B. Capacity.....
- C. Age.....
- D. Construction Material.....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Visible Corrosion or Pitting Y/N.....
- K. Visible Holes Y/N.....

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Fuel oil					
5,000 gal					
1977					
Steel					
3/96					
11'					
N					
N					
R					
N					
N					

- L. Method of disposal for any USTs removed from the ground (attach disposal manifests)

UST 644 was removed, drained, cut open at both ends, and cleaned with a steam cleaner. It was then cut up for recycling as scrap metal. (See Attachment III.)

- M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

The sludge, waste water, and residual fuel oil from UST 644 were recycled.

- N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

UST 644 was covered with a protective coating. The tank was in good condition, no pitting or holes were found.

VI. PIPING INFORMATION

- A. Construction Material.....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System P/S.....
- E. Was Piping Removed from the Ground? Y/N....
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Note 1: UST 644 supplied heating fuel oil to building 644.

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Steel & Copper					
31' See note 1					
1 See note 1					
S					
Y					
N					
N					
1977					

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

The piping was in good condition. No corrosion, pitting, or holes were found.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 644, built in 1977, served as the Charleston Naval Base bowling center until base closure. It currently serves as the Physical Training Complex for the US Border Patrol.

VIII. SITE CONDITIONS

Yes No Unk

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>		X	
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>		X	
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p> <p>_____</p>		X	
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p> <p>_____</p>		* X	
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p>		X	

* All excavated soil was returned to the tank pit.

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store (preserve) the samples.

After the removal of UST 644 soil samples were taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted at the tank ends. Samples for volatiles were taken using the Encore sampler and T-handle.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETCHASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

Yes No

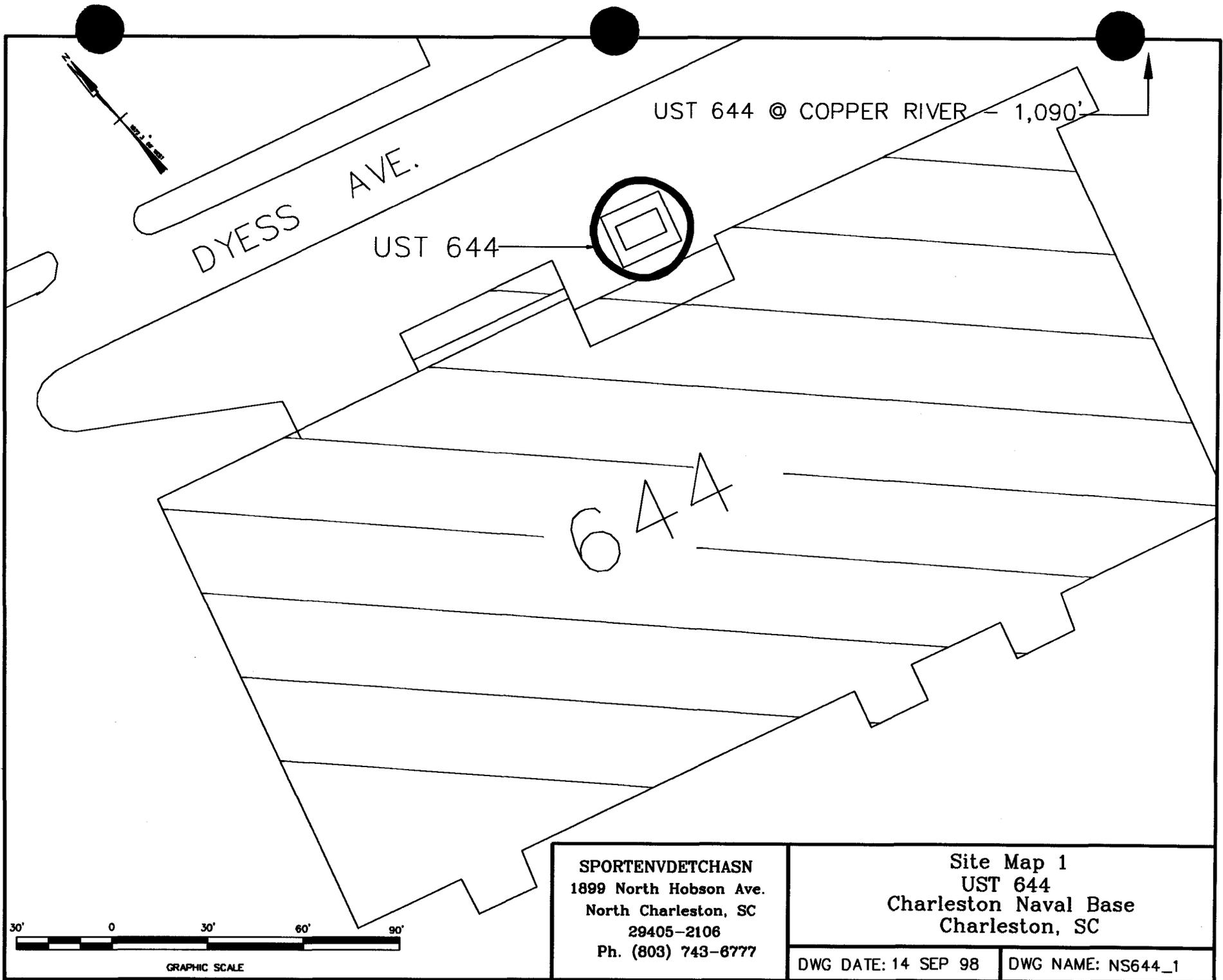
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>		X
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) located within 100 feet of the UST system?</p> <p>If yes, indicate the type of structure, distance, and direction on site map.</p>		X
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?</p> <p>If yes, indicate the type of utility, distance, and direction on the site map. [sewer]</p>	X	
<p>E. Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X

Attachment I

SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1 and 2
Photographs 1 and 2



UST 644 @ COOPER RIVER - 1,090'

DYESS AVE.

1972.3 @ WEST

EXCAVATION, 20' x 14' x 11' DEEP

FORMER UST 644

2" WATER LINE

S.S. SPORT 0796-3,
BLACK GRAY DIRT,
PID = 45.9 ppm

2" VENT STEEL PIPE

6" SEWER LINE

1/2" OD. SUPPLY
& RETURN COPPER
PIPES

S.S. SPORT 0796-2,
BLACK GRAY DIRT,
PID = 2140 ppm

SIDEWALK

SEWER MANHOLE

BLDG. 644

LEGEND

S.S. - SOIL SAMPLE

15' 0 15'



GRAPHIC SCALE

SPORTENVDETHASN
1899 North Hobson Ave.
North Charleston, SC 29405-2106
Ph. (803) 743-6777

Site Map 2
UST 644
Charleston Naval Base
Charleston, SC

DWG DATE: 14 SEP 98 DWG NAME: NS644_2

UST 644



Photo 1: UST 644 excavation site at the US Border Patrol Physical Training complex.



Photo 2: UST 644 during cutting and cleaning.

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results
Chain-of-Custody



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Laboratory Certifications

STATE	GEL	EPI
FL	ES7156/87294	ES7472/87458
NC	233	
SC	10:20	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 21, 1998

Page 1 of 2

Sample ID : SPOR796-1
 Lab ID : 9809340-01
 Matrix : Soil
 Date Collected : 09/09/98
 Date Received : 09/10/98
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>BTEX + NAPTH. - 5 items</i>											
Benzene	U	ND	0.489	1.00	ug/kg	1.0	JEB	09/15/98	1325	131120	1
Ethylbenzene	U	ND	0.293	1.00	ug/kg	1.0					
Naphthalene	U	ND	0.586	1.00	ug/kg	1.0					
Toluene	U	ND	0.879	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.16	0.684	2.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

JEB 09/11/98 0900 131120 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX+NAP-8260B	98.8	(53.5 - 154.)
Dibromofluoromethane	BTEX+NAP-8260B	95.5	(63.4 - 136.)
Toluene-d8	BTEX+NAP-8260B	117.	(72.1 - 137.)

M = Method	Method-Description
M 1	SW846 8260B
M 2	EPA 5035

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9809340-01



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STATE	GEL	EPI
FL	EE7136/87294	EE7472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 21, 1998

Page 2 of 2

Sample ID : SPORTO796-1

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

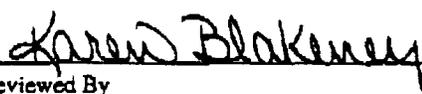
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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

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

This data report has been prepared and reviewed
 in accordance with General Engineering Laboratories
 standard operating procedures. Please direct
 any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



 Reviewed By

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Avc.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 21, 1998

Page 1 of 2

Sample ID : SPOR0796-2
 Lab ID : 9809340-02
 Matrix : Soil
 Date Collected : 09/09/98
 Date Received : 09/10/98
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>BTEX + NAPTH. - 5 items</i>											
Benzene		1.13	0.459	1.00	ug/kg	1.0	JEB	09/15/98	1502	131120	1
Ethylbenzene	J	0.844	0.275	1.00	ug/kg	1.0					
Naphthalene	U	ND	0.550	1.00	ug/kg	1.0					
Toluene		1.05	0.825	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.862	0.642	2.00	ug/kg	1.0					
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	ND	159	331	ug/kg	1.0	JPA	09/16/98	2306	131000	2
Acenaphthylene	U	ND	146	331	ug/kg	1.0					
Anthracene	U	ND	86.1	331	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.2	331	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.8	331	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	142	331	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.4	331	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	132	331	ug/kg	1.0					
Chrysene	U	ND	53.0	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.8	331	ug/kg	1.0					
Fluoranthene	U	ND	66.2	331	ug/kg	1.0					
Fluorene	U	ND	113	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.4	331	ug/kg	1.0					
Naphthalene	U	ND	156	331	ug/kg	1.0					
Phenanthrene	U	ND	59.6	331	ug/kg	1.0					
Pyrene	U	ND	72.8	331	ug/kg	1.0					

The following prep procedures were performed:
 GC/MS Volatiles (8260 High Level)

JEB 09/11/98 0915 131120 3

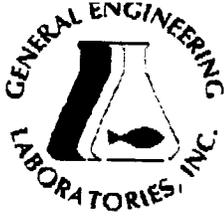
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 21, 1998

Page 2 of 2

Sample ID : SPORT0796-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
GC/MS Base/Neutral Compounds							RDH	09/11/98	1605	131000	4

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	76.2	(30.0 - 115.)
Nitrobenzene-d5	M610	65.2	(23.0 - 120.)
p-Terphenyl-d14	M610	58.0	(37.3 - 128.)
Bromofluorobenzene	BTEX+NAP-8260B	99.4	(53.5 - 154.)
Dibromofluoromethane	BTEX+NAP-8260B	101.	(63.4 - 136.)
Toluene-d8	BTEX+NAP-8260B	123.	(72.1 - 137.)

M = Method	Method-Description
M 1	SW846 8260B
M 2	EPA 8270
M 3	EPA 5035
M 4	EPA 3550

Notes:

The qualifiers in this report are defined as follows:

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 in accordance with General Engineering Laboratories
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Karen Blakeney
 Reviewed By

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STATE	GEL	GPI
FL	ER7156/87294	ER7472/87458
NC	233	
SC	10120	10382
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 21, 1998

Page 1 of 2

Sample ID : SPOR796-3
 Lab ID : 9809340-03
 Matrix : Soil
 Date Collected : 09/09/98
 Date Received : 09/10/98
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>BTEX + NAPTH. - 5 items</i>											
Benzene		2.41	0.447	1.00	ug/kg	1.0	JEB	09/15/98	1535	131120	1
Ethylbenzene		1.39	0.268	1.00	ug/kg	1.0					
Naphthalene	U	ND	0.536	1.00	ug/kg	1.0					
Toluene		1.88	0.805	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.81	0.626	2.00	ug/kg	1.0					
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	ND	159	331	ug/kg	1.0	JPA	09/16/98	2335	131000	2
Acenaphthylene	U	ND	146	331	ug/kg	1.0					
Anthracene	U	ND	86.1	331	ug/kg	1.0					
Benzo(a)anthracene	U	ND	66.2	331	ug/kg	1.0					
Benzo(a)pyrene	U	ND	72.8	331	ug/kg	1.0					
Benzo(b)fluoranthene	U	ND	142	331	ug/kg	1.0					
Benzo(ghi)perylene	U	ND	79.4	331	ug/kg	1.0					
Benzo(k)fluoranthene	U	ND	132	331	ug/kg	1.0					
Chrysene	U	ND	53.0	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	ND	82.8	331	ug/kg	1.0					
Fluoranthene	U	ND	66.2	331	ug/kg	1.0					
Fluorene	U	ND	113	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	ND	79.4	331	ug/kg	1.0					
Naphthalene	U	ND	156	331	ug/kg	1.0					
Phenanthrene	U	ND	59.6	331	ug/kg	1.0					
Pyrene	U	ND	72.8	331	ug/kg	1.0					

The following prep procedures were performed:
 GC/MS Volatiles (8260 High Level)

JEB 09/11/98 0920 131120 3

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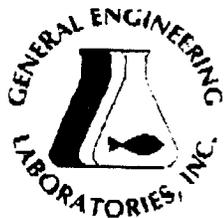
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 21, 1998

Page 2 of 2

Sample ID : SPOR0796-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
GC/MS Base/Neutral Compounds						RDH	09/11/98	1605	131000	4	

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	69.6	(30.0 - 115.)
Nitrobenzene-d5	M610	54.9	(23.0 - 120.)
p-Terphenyl-d14	M610	60.0	(37.3 - 128.)
Bromofluorobenzene	BTEX+NAP-8260B	83.4	(53.5 - 154.)
Dibromofluoromethane	BTEX+NAP-8260B	96.0	(63.4 - 136.)
Toluene-d8	BTEX+NAP-8260B	128.	(72.1 - 137.)

M = Method	Method-Description
M 1	SW846 8260B
M 2	EPA 8270
M 3	EPA 5035
M 4	EPA 3550

Notes:

The qualifiers in this report are defined as follows:

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

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Karen Blakeney
 Reviewed By

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9809340-03

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CHAIN OF CUSTODY RECORD

Client Name/Facility Name SPORTENVDETCHASN		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved												
Collected by/Company SPORTENVDETCHASN		WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	STEX/NAP	PAH	Remarks
SAMPLE ID	DATE																							
SPORT 796-1	9/9/98	1330	X			1																X		Soil Trip Blank
SPORT 796-2	9/9/98	1640	X	X		4																X	X	Bldg-644 North
SPORT 796-3	9/9/98	1645	X	X		4																X	X	Bldg-644 South
Relinquished by: <i>R.W. Coff</i>	Date: 9/10/98	Time: 1645	Received by: <i>W.R. Hiers, Jr.</i>	Date: 9/10/98	Time: 1515	Received by: <i>Raymond Reed</i>	Relinquished by: <i>W.R. Hiers, Jr.</i>	Date: 9/10/98	Time: 1515	Received by: <i>Raymond Reed</i>	Remarks:													

White = sample collector Yellow = file Pink = with report

Attachment III

Certificate of Disposal (tank)

UST Certificate of Disposal

CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, USN
Portsmouth, VA
Environmental Detachment Charleston
1899 North Hobson Avenue
North Charleston 29405-2106

Telephone (843) 743-6482

TANK ID & LOCATION

UST 644; Building 644, Dyess Ave., Charleston Naval Base, N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

Fuel oil

SIZE (GAL)

5,000 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, cut into sections, and disposed of as recyclable scrap metal.

DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.

Carl Jenkins | 9/12/98
Carl Jenkins (Date)