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CNC CHARLESTON
5090.3a

ABOVE GROUND STORAGE TANK (AST) ASSESSMENT REPORT BUILDING M-82 CNC CHARLESTON SC

07/20/1999

ENVIRONMENTAL DETACHMENT CHARLESTON

G 3.20.00
W 5.3.00

Aboveground Storage Tank (AST) Assessment Report

Date Received State Use Only

Submit Completed Form to:
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I. OWNERSHIP OF AST(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. #: M82, Unregulated

Facility Name: Charleston Naval Base Complex, Building M-82

Street Address: Truxtun Avenue

City: North Charleston, 29405-2413 County: Charleston

III. CLOSURE INFORMATION

Closure Started: 20 July 99 Closure Completed: 30 August 99

Number of ASTs Closed: 1

N/A — Consultant

SPORTENVDETCHASN — AST 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)

Henry N. Shepard II 3/10/2000
Signature

RECEIVED
MAR 17 2000
Water Monitoring, Assessment & Protection Division

V. AST INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
A. Product.....	Fuel oil				
B. Capacity.....	300 gal.				
C. Age.....	Unk.				
D. Construction Material.....	Steel				
E. Month/Year of Last Use.....	Unk.				
F. Spill Prevention Equipment Y/N.....	N				
G. Overfill Prevention Equipment Y/N....	N				
H. Method of Closure Removed/Filled..	R				
I. Visible Corrosion or Pitting Y/N.....	Y				
J. Visible Holes Y/N.....	N				

L. Method of disposal for any ASTs removed.

AST M82 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 ASTs.

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

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

Surface rust observed in one area of deteriorated paint. No pitting or holes were observed.

VI. PIPING INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
A.	Construction Material.....	Steel				
B.	Distance from AST to Dispenser.....	8'				
C.	Number of Dispensers.....	1 See para VII.				
D.	Type of System P/S.....	S				
E.	Was Piping Removed Y/N.....	Y - See Para VII.				
F.	Visible Corrosion or Pitting Y/N.....	N				
G.	Visible Holes Y/N.....	N				
H.	Age.....	Unk				

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

No corrosion, pitting, or holes were observed.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building M-82 was constructed in 1992 on the foundation of a building built in 1942. The building continues to serve, as it has always served, as headquarters for the Naval Station Security Department.

Aboveground storage tank M82 provided fuel oil for building M-82's emergency generator. AST M82 was situated in a concrete berm. The supply piping in the berm was removed. The standing end was capped after being disconnected at the generator and flushed.

VIII. SITE CONDITIONS

		Yes	No	Unk
A.	Were any petroleum-stained or contaminated soils found near the AST?		X	
B.	Were any petroleum odors detected? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		X	

IX. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 10120

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected By	OVA#
99 SPORT 0261-03	Sample taken at the outfall of the berm drain line	Soil	Sand	1'	30 August 99 1025	Rusty Cope	Not taken

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

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

After the removal of AST M82 a soil sample was 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. The soil sample was extracted at the outfall of the berm drain under the drain valve at one foot depth. Samples for volatiles were taken using the Encore sampler and T-handle.

The sample was 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 sample remained in the custody of SPORTENVDETCHASN until it was transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system? If yes, indicate type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the AST system? If yes, indicate type of well, distance, and direction on site map.		X
C.	Are there any underground structures (e.g., basements) located within 100 feet of the AST system? If yes, indicate the type of structure, distance, and direction on site map.		X
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the AST system that could potentially come in contact with the contamination? If yes, indicate the type of utility, distance, and direction on the site map.	X*	

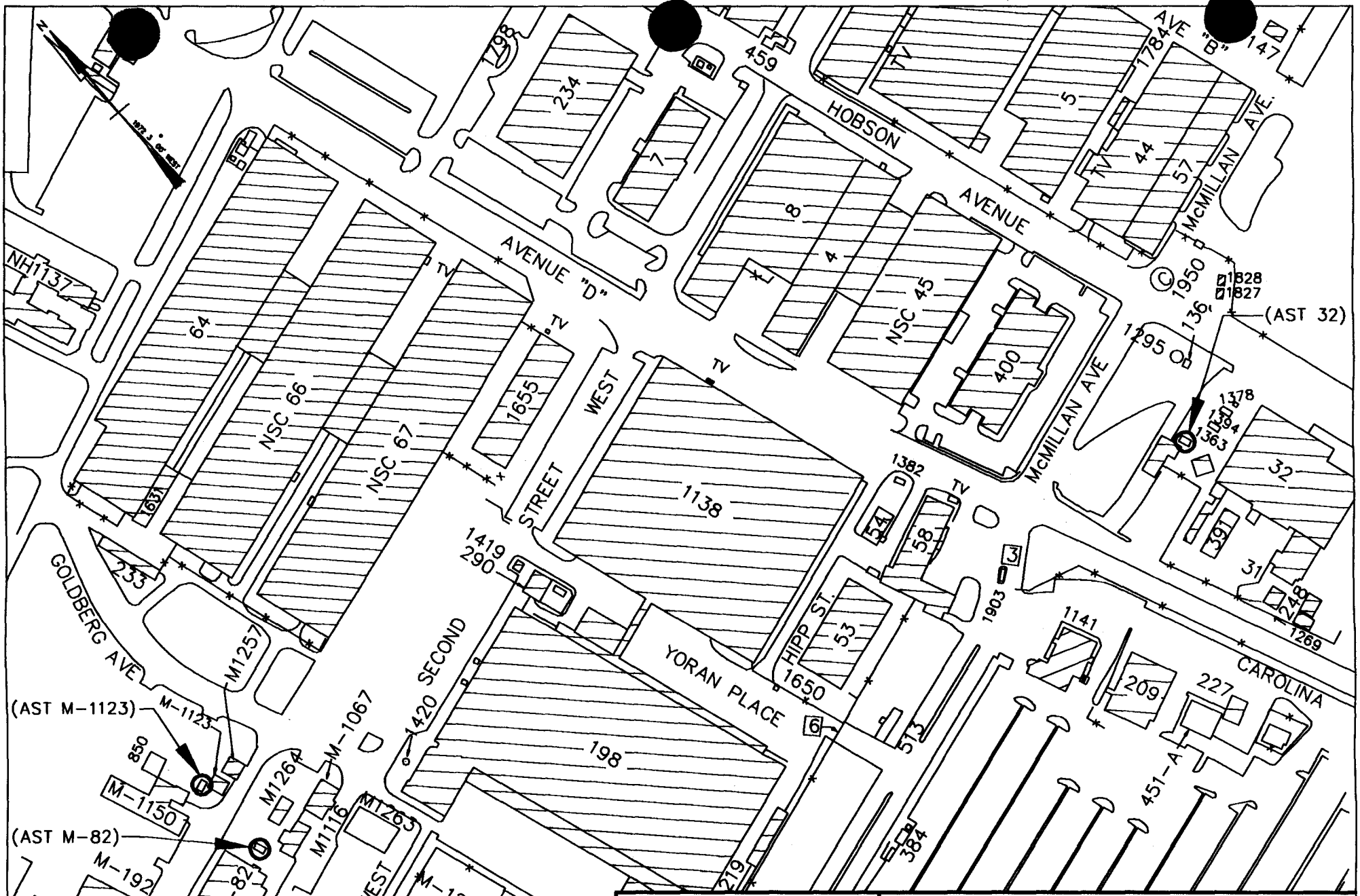
* Electrical lines, water main, and telephone lines

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 A and B

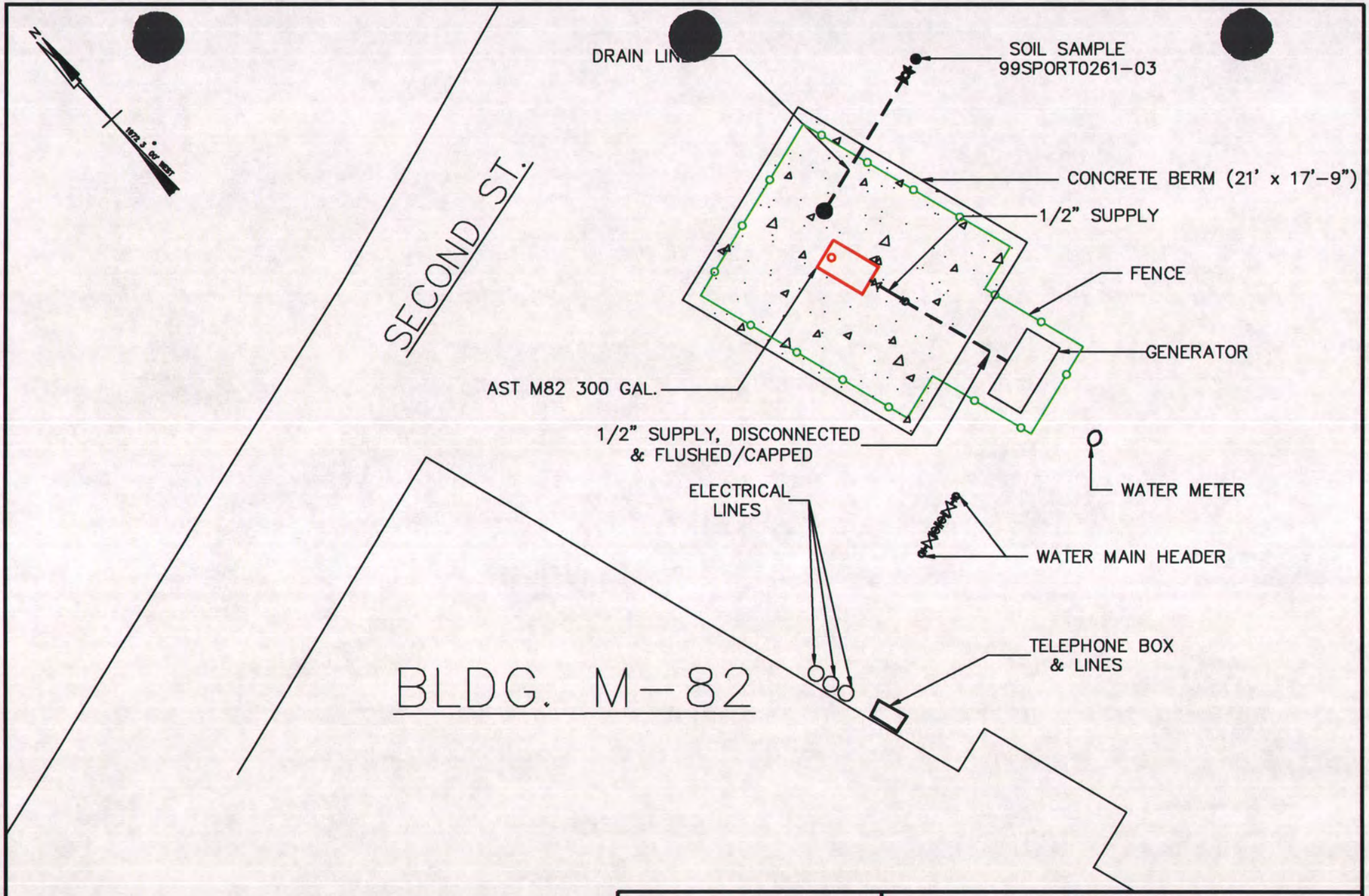


SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Site Map 1
AST SITE MAP
Charleston Naval Base
Charleston, SC

DWG DATE: 30 SEP 99

DWG NAME: SITE MAP 1



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

Site Map 2
AST M82
Charleston Naval Base
Charleston, SC

DWG DATE: 16 JUL 99

DWG NAME: B-M82_1

AST 82

Photo A: AST M82 in the berm

Photo B: AST M82 cleaned

Attachment II

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

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

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 02, 1999

Sample ID	: 99SPORT0261-03
Lab ID	: 9908E33-03
Matrix	: Soil
Date Collected	: 08/30/99
Date Received	: 08/30/99
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
[redacted]tile Organics											
[redacted]EX + NAPTH. - 5 items											
Benzene	U	ND	0.505	1.01	ug/kg	1.0	TCL	08/31/99	1113	157375	1
Ethylbenzene	U	ND	0.303	1.01	ug/kg	1.0					
Naphthalene	U	ND	0.606	1.01	ug/kg	1.0					
Toluene	U	ND	0.909	1.01	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.707	2.02	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	ND	26.6	133	ug/kg	4.0	JPA	08/31/99	1441	157320	2
Acenaphthylene	U	ND	26.6	133	ug/kg	4.0					
Anthracene	J	116	26.6	133	ug/kg	4.0					
Benzo(a)anthracene		3040 >	26.6	133	ug/kg	4.0					
Benzo(a)pyrene		1940 >	26.6	133	ug/kg	4.0					
Benzo(b)fluoranthene		4080 >	26.6	133	ug/kg	4.0					
Benzo(ghi)perylene		757	26.6	133	ug/kg	4.0					
Benzo(k)fluoranthene		3040	26.6	133	ug/kg	4.0					
Chrysene		3800	26.6	133	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	107	133	ug/kg	4.0					
Fluoranthene		1850	26.6	133	ug/kg	4.0					
Fluorene	U	ND	26.6	133	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene		1110 >	93.2	133	ug/kg	4.0					
Naphthalene	U	ND	26.6	133	ug/kg	4.0					
Phenanthrene	U	ND	26.6	133	ug/kg	4.0					
[redacted]rene		2480	26.6	133	ug/kg	4.0					

The following prep procedures were performed:

Volatiles 8260 High Level TCL 08/31/99 0845 157375 3

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

9908E33-03

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 02, 1999

Sample ID : 99SPORT0261-03

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
GC/MS Base/Neutral Compounds							HDB	08/31/99	0915	157320	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610-NPWC	83.8	(44.7 - 110.)
[illegible]robenzene-d5	M610-NPWC	68.1	(42.4 - 107.)
[illegible]erphenyl-d14	M610-NPWC	98.2	(45.5 - 104.)
Bromofluorobenzene	BTEX+NAP-8260B	90.7	(73.0 - 129.)
Dibromofluoromethane	BTEX+NAP-8260B	105.	(66.0 - 117.)
Toluene-d8	BTEX+NAP-8260B	107.	(73.0 - 122.)

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

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, Elise Hanson at 843-556-8171.

Reviewed By

IPWC00197 9908E35

CHAIN OF CUSTODY RECORD

RUSH! 3 Day Turn!

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 1

Client Name/Facility Name: SPORTEN UDETCHASN

Collected by/Company: SPORTEN UDETCHASN

	SAMPLE ID	DATE	TIME	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	BTEX/MBP	PAH	Remarks
1 99	SPORT0261-01	8-30-99	0900		X		X	3																X		TRIP BLANK .2
2-	SPORT0261-02	8-30-99	0945		X		X	4																X	X	AST M143 .1
3-	SPORT0261-03	8-30-99	1025		X		X	4																X	X	AST M42 .1
4-	SPORT0261-04	8-30-99	1110		X		X	4																X	X	AST 601 EAST .1
5	SPORT0261-05	8-30-99	1120		X		X	4																X	X	AST 601 WEST .1
6-	SPORT0261-06	8-30-99	1130		X		X	4																X	X	AST 601 MPG .1
M-	SPORT0261-07	8-30-99	1145		X		X	4																X	X	ESA YARD .1

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

PRESERVED AT 4°C

42346

Relinquished by:	Date:	Time:	Received by:
[signature]	8-30-99	1350	Virgin Washington
[signature]	8/30/99	1650	Received by lab by: P. Power

Relinquished by:	Date:	Time:	Remarks:
Virgin Washington	8/30/99	1530	
	8/31/99	15.35	

Date:	Time:	Received by:
8/30/99	1530	[signature]

White = sample collector Yellow = file Pink = with report

Attachment III

Certificate of Disposal (tank)

AST 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

M82; Building M-82, 1630 Truxtun Ave., Charleston Naval Complex, N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK	SIZE (GAL)
Fuel oil	300

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.

Charles C. Wannamaker, III / 12/16/99

Charles C. Wannamaker (Date)