

N61165.AR.005029
CNC CHARLESTON
5090.3a

ABOVEGROUND STORAGE TANK (AST) ASSESSMENT REPORT FOR ESA CNC
CHARLESTON SC
08/30/1999
NAVFAC SOUTHERN

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. #: ESA, Unregulated
Facility Name: Charleston Naval Base Complex,
Street Address: C.B. Lane
City: North Charleston, 29405-2413 County: Charleston

III. CLOSURE INFORMATION

Closure Started: 27 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)
Signature *Henry N. Shepard II* 3/10/2000

V. AST INFORMATION

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

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Fuel oil					
500 gal.					
Unk.					
Steel					
Unk.					
N					
N					
R					
Y					
N					

- L. Method of disposal for any ASTs removed.

AST ESA 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.

The AST had several areas where surface rust had formed as a result of paint deterioration. No pitting or holes were observed.

VI. PIPING INFORMATION

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

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Steel				
8'				
1				
S				
Y-see Para. VII				
N				
N				
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

The AST ESA was inside a concrete block berm. The AST held diesel fuel for naval equipment. The piping inside the berm and the dispenser were removed. The piping between the berm and dispenser was flushed and capped. A soil sample was taken at the berm drain valve outfall.

VIII. SITE CONDITIONS

Yes No Unk

<p>A. Were any petroleum-stained or contaminated soils found near the AST?</p>		X	
<p>B. Were any petroleum odors detected? If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>		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 0261-07	Under the drain valve for the berm	Soil	Sand	1'	30 August 99 1145	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 ESA 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 outside the berm under the drain valve for the berm 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 SPORTENVDETHASN until it was transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

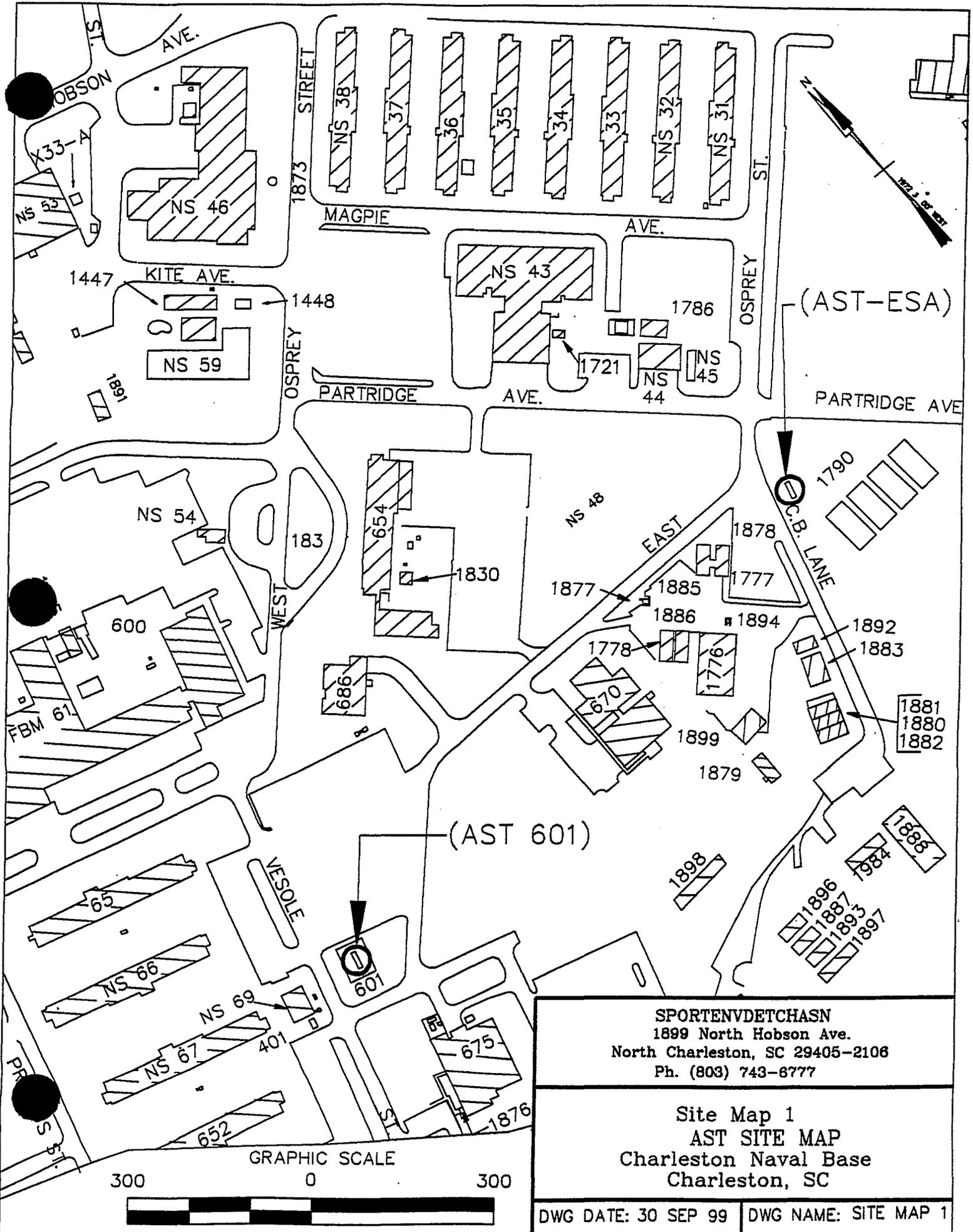
Yes No

A.	<p>Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system? (500' to the Cooper River) If yes, indicate type of receptor, distance, and direction on site map.</p>	<p>X</p>	
B.	<p>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.</p>		<p>X</p>
C.	<p>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.</p>		<p>X</p>
D.	<p>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.</p>		<p>X</p>

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, B, C, D and E



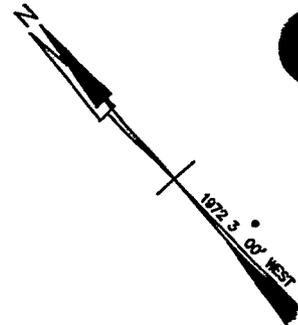
SPORTENVDECHASN
 1899 North Hobson Ave.
 North Charleston, SC 29405-2108
 Ph. (803) 743-8777

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

DWG DATE: 30 SEP 99 DWG NAME: SITE MAP 1

EAST

C.B. LANE



CONCRETE BERM (12'-8" x 10' x 5' HIGH)

SOIL SAMPLE
99SPORT0261-07

DRAIN VALVE FOR BERM

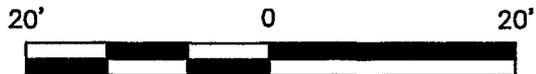
FENCE

AST ESA YARD
500 GAL.

DIESEL PUMP
(REMOVED)

1-1/2" PIPE,
(FLUSH/CAPPED)

1790



GRAPHIC SCALE

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

Site Map 2
 AST ESA YARD
 Charleston Naval Base
 Charleston, SC

DWG DATE: 16 JUL 99	DWG NAME: B-ESA-YD_1
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AST ESA



Photo A: Dispenser pump for AST ESA. Dark areas around dispenser and berm are scrub grasses rather than staining. No evidence of leakage or spills was observed.



Photo B: AST berm inside the fenced area

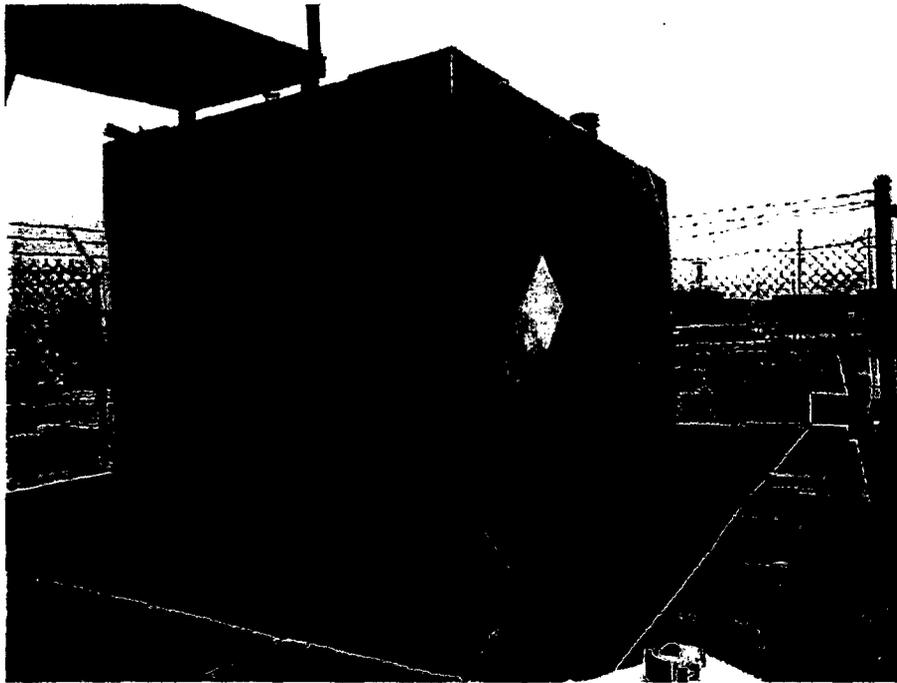


Photo C: The AST was set on block foundation

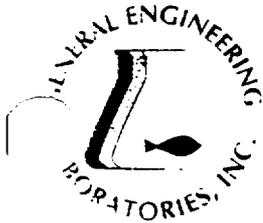


Photo D: ESA AST moved to the clean and cut-up area

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

Page 1 of 3

Sample ID : 99SPORT0261-07
 Lab ID : 9908E33-07
 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
File Organics											
<i>TEX + NAPTH. - 5 items</i>											
Benzene	U	ND	0.471	1.00	ug/kg	1.0	TCL	08/31/99	1311	157375	1
Ethylbenzene	U	ND	0.283	1.00	ug/kg	1.0					
Naphthalene	U	ND	0.565	1.00	ug/kg	1.0					
Toluene	U	ND	0.848	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.659	2.00	ug/kg	1.0					
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	ND	66.6	333	ug/kg	10.	JPA	09/01/99	1347	157320	2
Acenaphthylene	U	ND	66.6	333	ug/kg	10.					
Anthracene	U	ND	66.6	333	ug/kg	10.					
Benzo(a)anthracene	U	ND	66.6	333	ug/kg	10.					
Benzo(a)pyrene	U	ND	66.6	333	ug/kg	10.					
Benzo(b)fluoranthene	U	ND	66.6	333	ug/kg	10.					
Benzo(ghi)perylene	U	ND	66.6	333	ug/kg	10.					
Benzo(k)fluoranthene	U	ND	66.6	333	ug/kg	10.					
Chrysene	U	ND	66.6	333	ug/kg	10.					
Dibenzo(a,h)anthracene	U	ND	266	333	ug/kg	10.					
Fluoranthene	U	ND	66.6	333	ug/kg	10.					
Fluorene	U	ND	66.6	333	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene	U	ND	233	333	ug/kg	10.					
Naphthalene	U	ND	66.6	333	ug/kg	10.					
Phenanthrene	U	ND	66.6	333	ug/kg	10.					
Pyrene	U	ND	66.6	333	ug/kg	10.					

The following prep procedures were performed:
 Volatiles 8260 High Level

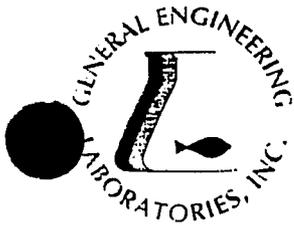
TCL 08/31/99 0905 157375 3

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

(843) 556-8171 • Fax (843) 766-1178



9908E33-07



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

Page 2 of 3

Sample ID : 99SPORT0261-07

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

Comments:

Surrogate recovery failed due to dilution(s).

Surrogate Recovery	Test	Percent %	Acceptable Limits
2-Fluorobiphenyl	M610-NPWC	0.00*	(44.7 - 110.)
Nitrobenzene-d5	M610-NPWC	0.00*	(42.4 - 107.)
p-Terphenyl-d14	M610-NPWC	0.00*	(45.5 - 104.)
Bromofluorobenzene	BTEX+NAP-8260B	92.1	(73.0 - 129.)
Dibromofluoromethane	BTEX+NAP-8260B	101.	(66.0 - 117.)
Toluene-d8	BTEX+NAP-8260B	103.	(73.0 - 122.)

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

Notes:

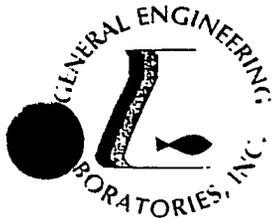
The qualifiers in this report are defined as follows:

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.

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



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cc: NPWC00197

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Page 3 of 3

Sample ID : 99SPORT0261-07

M = Method

Method-Description

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

WPWC00197

9908E3

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

CHAIN OF CUSTODY RECORD

RUSH 3 Day Turn!

Page 1 of 1

Client Name/Facility Name		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							
SPORTENV DETCHMEN		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/NAP	PAH	Remarks
Collected by/Company	WELL																		
SPORTENV DETCHMEN																			
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS												
1 99 SPORT0261-01	8-30-99	0900	X	X	X	X	3										X		TRIP BLANK
2- SPORT0261-02	8-30-99	0945	X	X	X	X	4										X	X	AST 1143
3- SPORT0261-03	8-30-99	1025	X	X	X	X	4										X	X	AST 1142
4- SPORT0261-04	8-30-99	1110	X	X	X	X	4										X	X	AST 601 EAST
5- SPORT0261-05	8-30-99	1120	X	X	X	X	4										X	X	AST 601 WEST
6- SPORT0261-06	8-30-99	1130	X	X	X	X	4										X	X	AST 601 PPG
7- SPORT0261-07	8-30-99	1145	X	X	X	X	4										X	X	ESA YARD

PRESERVED AT 4°C
42346
Remarks

Relinquished by: <i>[Signature]</i>	Date: 8/30/99	Time: 1350	Received by: <i>Virgin Wastinger</i>	Relinquished by: <i>Virgin Wastinger</i>	Date: 8/30/99	Time: 1530	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date: 8/30/99	Time: 1530	Received by lab by: <i>P. Kauer</i>	Date: 8/30/99	Time: 15:50	Remarks:	

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

ESA Fenced Area, CB Lane, Charleston Naval Complex, N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

SIZE (GAL)

Fuel oil

500

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 II | 9/30/99
Charles C. Wannamaker (Date)