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CNC CHARLESTON
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LETTER REGARDING SOUTH CAROLINA DEPARTMENT OF HEALTH AND
ENVIRONMENTAL CONTROL REVIEW OF ASSESSMENT REPORT DATED 17 OCTOBER
1996 FOR BUILDING 9 ABOVE GROUND STORAGE TANK 9B AND 9C (AST 9B AND 9C)
CNC CHARLESTON SC
12/31/1996
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Mr. Gabriel L. Magwood
Southern Division NFEC
P.O. Box 190010
2155 Eagle Drive
North Charleston, South Carolina 29419-9010

Re: Assessment Report dated October 17, 1996
Charleston Naval Base Building # 9 AST 9B/9C (Site Identification # 17684)
Charleston County

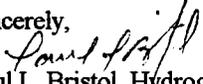
Date: December 31, 1996

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides a narrative describing tank removal activities at the referenced site. The site has designation Area of Concern (AOC) #574 in the Naval Base Resource Conservation and Recovery Act (RCRA) Facility Assessment program. Environmental assessments to determine the extent and severity of contamination, if any, from potential releases as a result of operation of the referenced storage tank system will be conducted under the guidance of the RCRA program.

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

Sincerely,


Paul L. Bristol, Hydrogeologist
Groundwater Assessment and Development Section
Bureau of Water

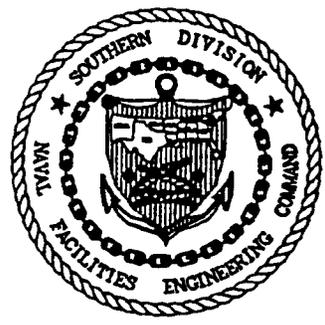
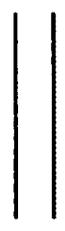
cc: Trident District EQC

Lo 12.18.96
Lo 12.23.94
PLM

#17684



ASSESSMENT REPORT
AST 9B & 9C
NAVAL BASE CHARLESTON
CHARLESTON SC



Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC



Prepared by:

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, PORTSMOUTH DETACHMENT
ENVIROMENTAL CHARLESTON, SC
1899 NORTH HOBSON AVE.
NORTH CHARLESTON SC 29405-2106

October 17, 1996

RECEIVED
NOV 01 1996
Groundwater Assessment
and Development Section

Aboveground Storage Tank (AST) Assessment Report

Date Received
State Use Only

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: 803	Telephone Number: 743-9985	Contact Person: LCDR Paul Rose	

II SITE IDENTIFICATION AND LOCATION

Site I.D. #:	AOC #574		
Facility Name:	Charleston Naval Base Complex, BLDG 9, ASTs 9B and 9C		
Street Address:	South Hobson Avenue		
City:	North Charleston, 29405-2413	County:	Charleston

III CLOSURE INFORMATION

Closure Started: 20 June 1996	Closure Completed: 24 July 1996
Number of ASTs Closed: 2	
N/A	SPORTENVDETHASN
Consultant	UST Removal Contractor

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

<small>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.</small>	
LCDR Paul Rose	
Name (Type or Print)	
	
Signature	

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NOV 01 1996
Groundwater Assessment
and Development Section

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
9B #2 Fuel Oil	9C #2 Fuel Oil			
586 gal.	3,700 gal			
1939	1939			
Steel	Steel			
1995	Unk.			
N	N			
N	N			
R	R			
Y	Y			
N	N			

- L. Method of disposal for any ASTs removed (attach disposal manifests).

ASTs 9B and 9C were removed from the site, steam cleaned, and cut up for recycling as scrap metal. See Attachment II.

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

The tanks were empty. No sludge was removed.

- N. Were any corrosion, pitting, or holes observed on the AST?

The ASTs were in poor condition. Oil was leaching out of the sides of the tanks. See photographs in Attachment I.

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	Tank 6
Steel	Steel				
25' (Bldg 9)	25' (Bldg 9)				
1	1				
P	P				
Y	Y				
N	N				
N	N				
> 20 yrs.	> 20 yrs.				

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

The piping was sound. No evidence of leakage was found in them.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 9 is located inside the Controlled Industrial Area of the Charleston Naval Shipyard. ASTs 9B and 9C provided #2 fuel oil to Building 9's foundry furnaces and torches. This location is designated as Area of Concern (AOC) #574 in the Naval Base Resource Conservation and Recovery Act (RCRA) Facility Assessment. The site also contained a waste oil tank which was removed prior to base closure. See photograph, Attachment I.

The condition of the tanks and the available documentation support the conclusion that the tanks had been leaking for many years. Prior to base closure, Public Works planned to replace ASTs 9B and 9C because of their poor condition.

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.) [*mild, from contaminated soil beneath ASTs]	*X		

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

Sample #	Location	Sample Type Soil/Water)	Depth *	Date/Time of Collection	Collected By	OVA#
See Note 1.						

* = Depth Below the Surrounding Land Surface

Note 1:

No samples were taken of this location per agreement with the Project Team. The site is presently being assessed and worked under the RCRA permit for Naval Base Charleston.

X. SAMPLING METHODOLOGY

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

No samples were taken.

XI. RECEPTORS

Yes No

<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system?</p> <p style="text-align: right; margin-right: 50px;">[* Cooper R. 320']</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 AST 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 AST 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 AST system that could potentially come in contact with the contamination?</p> <p style="text-align: right; margin-right: 50px;">[* Storm drain, electrical]</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	*X	

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 through 5

← Cooper River, 320'



SD

SD

BROKEN
CONCRETE
SLAB

BLDG
1314

NOTES:

1 -- NBCE 57401D

2 -- NBCE 574001

3 -- NBCE 574002

FORMER
ABOVE GROUND
PIPING AST 9B

FORMER
AST 9C

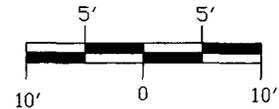
GROUND LEVEL
PIPING

D

UNPAVED SOIL

BLDG 9

GRAPHIC SCALE



KEY:

D -- DRAIN

∞ -- ELECTRICAL CONDUIT ENTER GROUND

2 -- PERMANENT MONITORING WELL

SD -- STORM DRAIN

Figure: Site Map 2
AST 9B & 9C
Charleston Naval Base
Charleston, SC

SPORTENVDETHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 16 OCT 1996

DWG NAME: CNS9_2

ASTs 9B and 9C

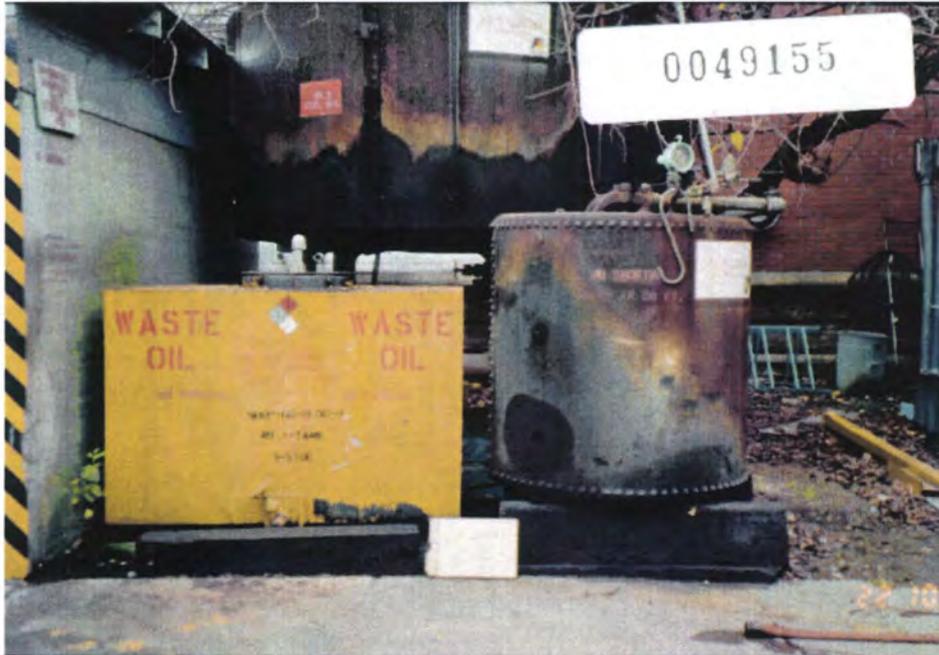


Photo 1: Building 9 waste oil tank, AST 9C, and AST 9B from left to right. This photo was taken before the waste oil tank was removed, prior to base closure.



Photo 2: ASTs 9B and 9C, taken prior to base closure.

ASTs 9B and 9C



Photo 3: ASTs 9B and 9C, taken prior to removal.



Photo 4: AST 9B foundation soil staining.



Photo 5: AST 9C foundation soil staining.

Attachment II

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 (803) 743-6482

TANK ID & LOCATION

AST 9B, BLDG 9, Charleston Naval Shipyard, Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

SIZE (GAL)

#2 Fuel Oil

586 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.

Thomas F. Songer / 10/16/96
(Name) (Date)

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 (803) 743-6482

TANK ID & LOCATION

AST 9C, BLDG 9, Charleston Naval Shipyard, Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

#2 Fuel Oil

SIZE (GAL)

3,700 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.

Thomas F. Berger / 10/16/96
(Name) (Date)