

N61165.AR.005095
CNC CHARLESTON
5090.3a

CLOSURE AND ASSESSMENT REPORT BUILDING 32 FOR ABOVE GROUND STORAGE
TANK (AST) 32-1, 32-2, 32-E CNC CHARLESTON SC
12/08/1998
ENVIRONMENTAL DETACHMENT CHARLESTON



8 December 1998

2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER:
Douglas E. Bryant

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Brian K. Smith

Rodney L. Grandy

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

Re: Closure and Assessment Report dated 19 October 1998
Building 32 (AST 32-1/32-2/32-E) (Site Identification # 15405-General File)
Charleston Naval Complex/Charleston Naval Base
Charleston, SC
Charleston County

Dear Mr. Magwood:

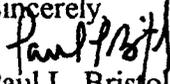
The author has completed technical review of the referenced document. As submitted, the report provides a narrative describing closure activities and/or analytical results of environmental sampling to determine if releases have occurred as a result of operation of the referenced vessel and/or associated piping system. The employed closure activities and visual observations appear to indicate that no additional endeavors for remedial actions and/or contaminant characterization is warranted for AST 32-1/32-2 at Building 32 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.

With regard to AST 32-E, there is concern with environmental conditions outside of the transfer pumps berm. Please provide a more detailed description and evaluation for this area as soon as possible.

Should you have any questions please contact me at (803) 898-3559.

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

Sincerely,

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


Tom Knight, Manager
Groundwater Quality Section
Bureau of Water

cc: Trident District EQC



DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
P.O. BOX 190010
2155 EAGLE DRIVE
NORTH CHARLESTON, S.C. 29419-9010

Li S. 4. 99
W 36 99

5090
Code 1849
9 Apr 99

Mr. Paul Bristol
South Carolina Department of Health
And Environmental Control
Groundwater Quality Section
Bureau of Water
2600 Bull Street
Columbia, SC 29201

RECEIVED

APR 12 1999

Water Monitoring, Assessment &
Protection Division

AST 32E FOLLOW-UP EVALUATION

Ref: SCDHEC Letter Re: Building 32 Closure Assessment Report, dated 8 December 1998

Dear Mr. Bristol:

The referenced letter requested a more detailed description and evaluation of the area surrounding the containment berm at AST 32E. The following is a brief history of the former AST and an evaluation of the surrounding area.

AST 32E was a 5,000 gallons aboveground storage tank that supplied two, 350 gallons day tanks for the emergency generators inside Building 32. AST's 32-1 and 32-2 were the day tanks connected to the emergency generators for the operation of Dry Docks 1 & 2. AST 32E was installed inside a six-foot high concrete berm at the southeast end of Building 32. Adjacent to the tank containment berm, a smaller shallow berm held transfer piping and pumps. The pumps were used for filling the 5,000 gallons tank and for pumping fuel to the day tanks on the second floor inside Building 32.

The tank, piping and transfer pump were removed. All piping was installed aboveground. The area under the containment berms, pump, and piping is concrete. The concrete pad extends from the fueling/pumping area up to the edge of the curved railroad tracks approximately 8 feet. It appears that in the past, the tank may have been filled from a railroad fuel car. At the time of the tank removal, there was 20 feet of 2" hose connected to the transfer piping.

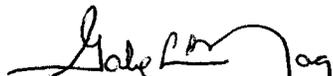
There is a 1-3" layer of sand, grit, dirt, and rocks covering the concrete between the tank berm and the railroad tracks. The sandy area supports sparse grasses

and weed growth. The area was examined for signs of environmental degradation or vegetative distress. There was no observable petroleum staining or odors associated with the pump or tank containment or the area surrounding the berms. A soil sample was taken from the soil above the concrete at the edge of the transfer berm. The sample revealed very low levels of BTEX constituents and non-detect for the Polynuclear Aromatic Hydrocarbons. Based on the lack of spill or discharged evidence and the analysis of the soil sample, AST 32E is recommended for "no further action".

The location of the soil sample and the soil sample analysis are enclosed for your review.

If you have any questions please contact me at (843) 820-7307.

Sincerely,


GABRIEL L. MAGWOOD
Remedial Project Manager

Encl:
(1) Sample Location and Analysis

BLDG 32
POWER HOUSE

↑
COOPER RIVER ~ 966'

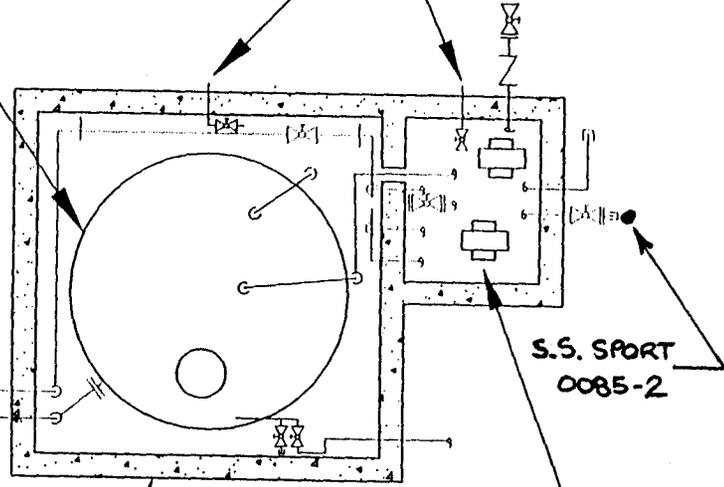
FORMER AST 32-E

CONCRETE SLAB THROUGHOUT

BERM DRAIN PIPE AND VALVES

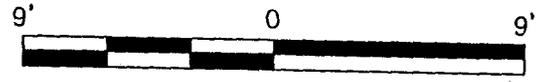
SUPPLY & RETURN PIPING, REMOVED

- NOTE:
- ALL EXTERIOR PIPING WAS REMOVED
 - ALL PIPING WAS EITHER ABOVE GROUND OR INSIDE BUILDING 32
 - ALL PIPING WAS EASILY INSPECTED AND FOUND TO BE IN SOUND CONDITION



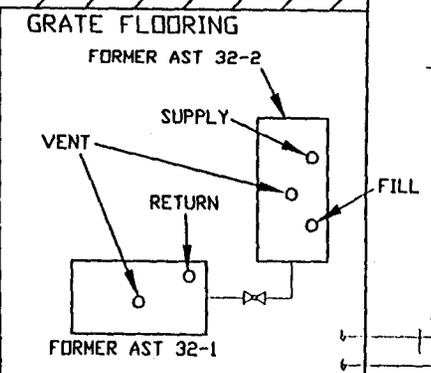
PUMP, REMOVED, TYP

CONCRETE BERM
(6' 8" HIGH)



GRAPHIC SCALE

RAILROAD BED



SPORTENVDETHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (843) 743-6777

Site Map 1
ASTs AT BLDG 32
Charleston Naval Base
Charleston, SC

DWG DATE: 16 SEPT 98

DWG NAME: A-32_3



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
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: January 15, 1999

Page 1 of 3

Sample ID : 99 SPORT0085-2
 Lab ID : 9901147-02
 Matrix : Soil
 Date Collected : 01/07/99
 Date Received : 01/07/99
 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		1.71	0.456	1.00	ug/kg	1.0	TCL	01/13/99	1645	139717	
Ethylbenzene		3.00	0.274	1.00	ug/kg	1.0					
Naphthalene	U	ND	0.547	1.00	ug/kg	1.0					
Toluene		2.35	0.821	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.52	0.638	2.00	ug/kg	1.0					
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	ND	639	1330	ug/kg	4.0	GWL	01/08/99	1930	139305	2
Acenaphthylene	U	ND	586	1330	ug/kg	4.0					
Anthracene	U	ND	346	1330	ug/kg	4.0					
Benzo(a)anthracene	U	ND	266	1330	ug/kg	4.0					
Benzo(a)pyrene	U	ND	293	1330	ug/kg	4.0					
Benzo(b)fluoranthene	U	ND	573	1330	ug/kg	4.0					
Benzo(ghi)perylene	U	ND	320	1330	ug/kg	4.0					
Benzo(k)fluoranthene	U	ND	533	1330	ug/kg	4.0					
Chrysene	U	ND	213	1330	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	ND	333	1330	ug/kg	4.0					
Fluoranthene	U	ND	266	1330	ug/kg	4.0					
Fluorene	U	ND	453	1330	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	ND	320	1330	ug/kg	4.0					
Naphthalene	U	ND	626	1330	ug/kg	4.0					
Phenanthrene	U	ND	240	1330	ug/kg	4.0					
Pyrene	U	ND	293	1330	ug/kg	4.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 01/08/99 0941 139717

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414

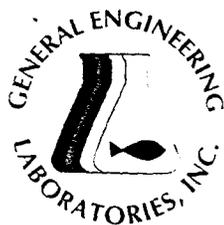
(843) 556-8171 • Fax (843) 766-1178

9901147-02



Printed on recycled paper.





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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
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: January 15, 1999

Page 2 of 3

Sample ID : 99 SPORT0085-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
GC/MS Base/Neutral Compounds							RDH	01/08/99	1220	139305	4

Comments:

Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
2-Fluorobiphenyl	M610	83.1	(30.0 - 115.)
Nitrobenzene-d5	M610	49.5	(23.0 - 120.)
p-Terphenyl-d14	M610	84.8	(37.3 - 128.)
Bromofluorobenzene	BTEX+NAP-8260B	129.	(53.5 - 154.)
Dibromofluoromethane	BTEX+NAP-8260B	73.7	(63.4 - 136.)
Toluene-d8	BTEX+NAP-8260B	99.1	(72.1 - 137.)

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





GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
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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: January 15, 1999

Page 3 of 3

Sample ID : 99 SPORT0085-2

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, Karen Blakeney at (843) 769-7386.


Reviewed By





GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
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: January 15, 1999

Page 1 of 2

Sample ID : 99 SPORT0085-1
 Lab ID : 9901147-01
 Matrix : GroundH2O
 Date Collected : 01/07/99
 Date Received : 01/07/99
 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	0.300	1.00	ug/l	1.0	TCL	01/13/99	1942	139716	
Ethylbenzene	U	ND	0.300	1.00	ug/l	1.0					
Naphthalene	U	ND	0.600	1.00	ug/l	1.0					
Toluene	U	ND	0.500	1.00	ug/l	1.0					
Xylenes (TOTAL)	U	ND	1.10	2.00	ug/l	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX+NAP-8260B	114.	(60.2 - 139.)
Dibromofluoromethane	BTEX+NAP-8260B	99.7	(70.6 - 152.)
Toluene-d8	BTEX+NAP-8260B	101.	(68.4 - 135.)

M = Method	Method-Description
M 1	SW846 8260B

Notes:

The qualifiers in this report are defined as follows:

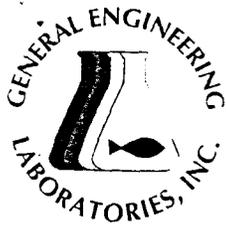
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U indicates that the analyte was not detected at a concentration greater than the detection limit.

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472F
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: January 15, 1999

Page 2 of 2

Sample ID : 99 SPORT0085-1

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, Karen Blakeney at (843) 769-7386.

Reviewed By





6 May 1999

2600 Bull Street
Columbia, SC 29201-1708

COMMISSIONER:
Douglas E. Bryant

BOARD:
John H. Burriss
Chairman

William M. Hull, Jr., MD
Vice Chairman

Roger Leaks, Jr.
Secretary

Mark B. Kent

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

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

Re: Additional Assessment Report dated 9 April 1999
Building 32 (AST 32-E) (Site Identification # 15405-General File)
Charleston Naval Complex/Charleston Naval Base
Charleston, SC
Charleston County

Dear Mr. Magwood:

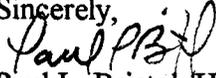
The author has completed technical review of the referenced document. As submitted, the report provides a narrative describing previous closure activities and analytical results of environmental sampling to establish if releases occurred as a result of operation of the referenced vessel and/or associated piping system. The employed closure activities and visual observations appear to indicate that no additional endeavors for remedial actions and/or contaminant characterization is warranted for AST 32-E at this time.

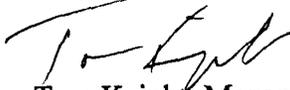
With consideration to the above comments, the Department has reviewed the referenced environmental data. Based on the information and analytical data submitted, the Department recognizes that the Department of the Navy and Charleston Naval Complex/Charleston Naval Base has adequately addressed the known 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.

Should you have any questions please contact me at (803) 898-3559.

Charleston Naval Complex/Charleston Naval Base
6 May 1999
page 2

Sincerely,


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


Tom Knight, Manager
Groundwater Quality Section
Bureau of Water

cc: Trident District EQC

Li 10.30.98
L012.8.98

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. #:	Unregulated		
Facility Name:	Charleston Naval Base Complex, Power House, Bldg 32		
Street Address:	Hobson Avenue		
City:	North Charleston, 29405-2413	County:	Charleston

III. CLOSURE INFORMATION

Closure Started: 21 July 1998	Closure Completed: 22 Sept 1998
Number of ASTs Closed: 3	
N/A Consultant	SPORTENVDETCNASN 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 PE 10/8/98
Signature

RECEIVED

OCT 21 1998

Water Monitoring, Assessment &
Protection Division

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.....

32-1	32-2	32-E	Tank 4	Tank 5	Tank 6
Fuel oil	Fuel oil	Fuel oil			
350 gal	350 gal	5,000 gal			
Unk	Unk	Unk			
Steel	Steel	Steel			
6/95	6/95	6/95			
N	N	N			
N	N	N			
R	R	R			
N	N	N			
N	N	N			

- L. Method of disposal for any ASTs removed.

ASTs 32-1, 32-2 and 32-E were removed, drained, cut open at both ends, and cleaned with a steam cleaner. They were 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 from the tanks were recycled.

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

All three ASTs were in excellent condition. ASTs 32-1 and 32-2 had been located inside Building 32.

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.....

32-1	32-2	32-E	Tank 4	Tank 5	Tank 6
Steel	Steel	Steel			
see note 1	see note 1	48'			
1 see note 2	1 see note 2	1 see note 2			
S	S	S			
Y	Y	Y			
N	N	N			
N	N	N			
Unk	Unk	Unk			

Note 1: ASTs 32-1 & 32-1 were located inside Building 32.

Note 2: The tanks provided fuel oil to Power House Building 32's generators.

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

The piping for all three ASTs was situated either above ground or inside Building 32. All piping was in excellent condition. No corrosion, pitting, or holes were found.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Facility 32, the Powerhouse, was constructed in 1909 and is designated a historical landmark.

No samples were taken because ASTs 32-1 and 32-2 were located inside the building, and the concrete berm for AST 32-E rested on a concrete pad.

X. SAMPLING METHODOLOGY

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

Samples were not taken.

XI. RECEPTORS

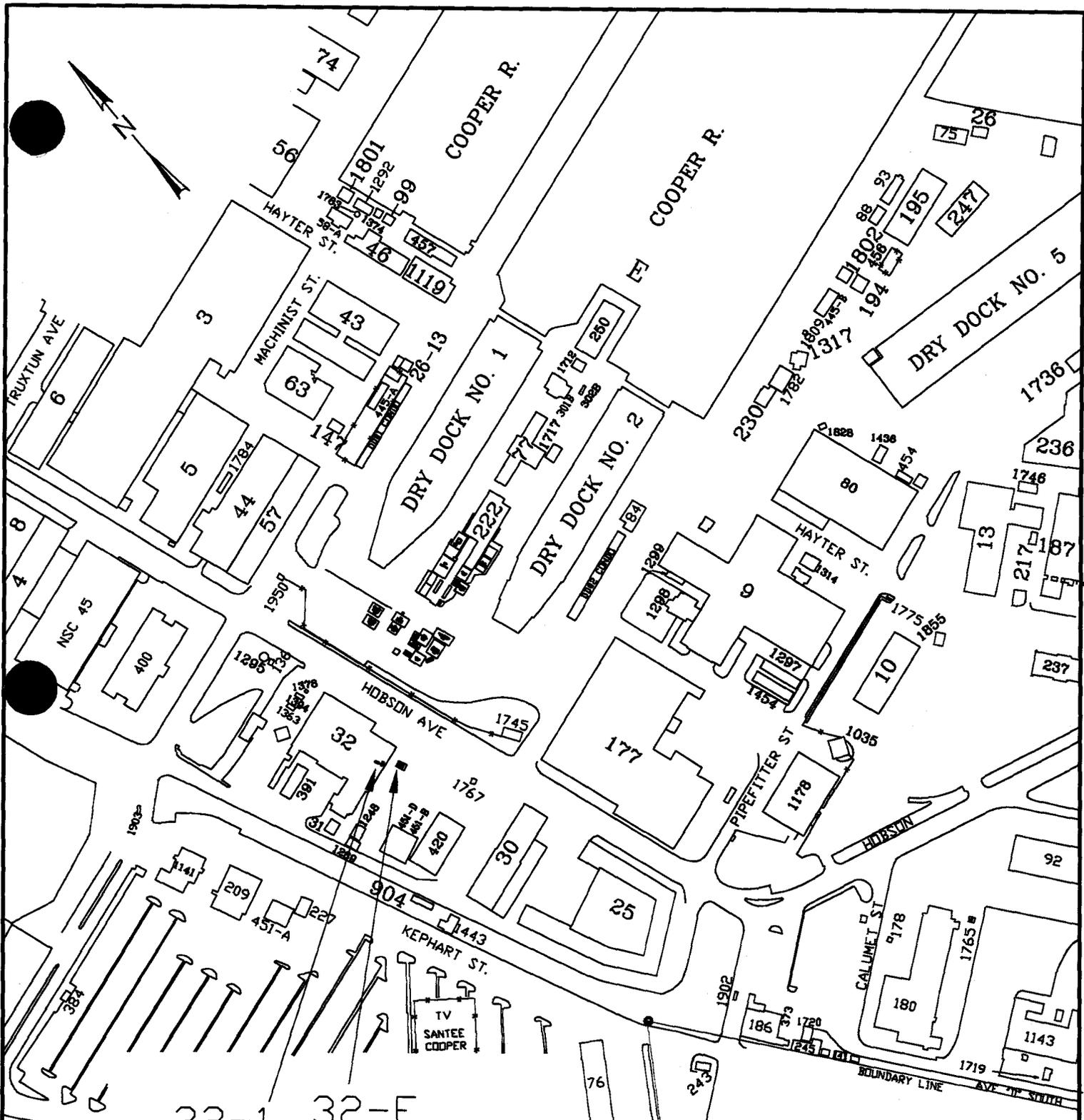
Yes No

<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map. [Cooper R. ~966']</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>[storm drain, electrical]</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, 2, and 3
Photographs 1 thru 7

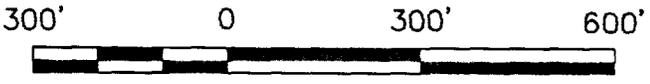


32-1 32-E
 32-2
 FORMER ASTs

SPORTENVDECHASN
 1899 North Hobson Ave.
 North Charleston, SC 29405-2106
 Ph. (843) 743-6777

Site Map 1
 ASTs 32-1, 32-2, 32-E
 Charleston Naval Base
 Charleston, SC

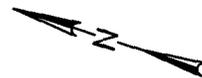
DWG DATE: 6 AUG 98 DWG NAME: A-32_1



GRAPHIC SCALE

HOBSON AVE

COOPER RIVER ~ 966'



SM ○

SM ○

SM ○

SD □

EM ○

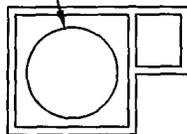
EP □

CONCRETE SLAB THROUGHOUT

RAILROAD BED

FORMER AST 32-E

BLDG 32
POWER HOUSE

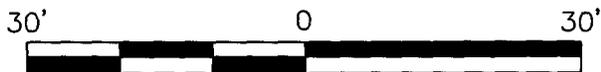


CONCRETE BERM

FORMER AST 32-2

FORMER AST 32-1

- KEY
- EM - ELECTRIC MANHOLE
 - EP - ELECTRIC PANEL
 - SD - STORM DRAIN
 - SM - STORM DRAIN MANHOLE



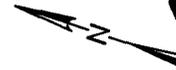
GRAPHIC SCALE

SPORTENVDETHASN
 1899 North Hobson Ave.
 North Charleston, SC 29405-2106
 Ph. (843) 743-6777

Site Map 2
 BLDG 32 ASTs
 Charleston Naval Base
 Charleston, SC

DWG DATE: 11 AUG 98 | DWG NAME: A-32_2

↑
COOPER RIVER ~ 966'



BLDG 32
POWER HOUSE

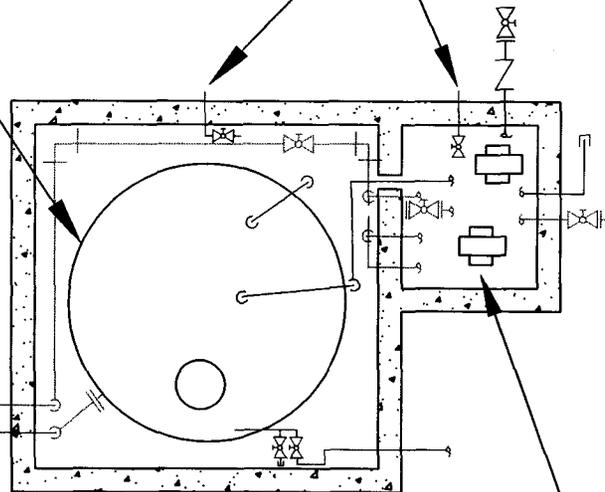
FORMER AST 32-E

CONCRETE SLAB
THROUGHOUT

SUPPLY & RETURN
PIPING, REMOVED

BERM DRAIN PIPE AND VALVES

NOTE: * ALL EXTERIOR PIPING WAS REMOVED
* ALL PIPING WAS EITHER ABOVE GROUND
OR INSIDE BUILDING 32
* ALL PIPING WAS EASILY INSPECTED
AND FOUND TO BE IN SOUND CONDITION



PUMP, REMOVED, TYP

CONCRETE BERM
(6' 8" HIGH)

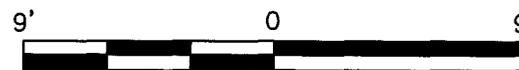
RAILROAD BED

GRATE FLOORING

FORMER AST 32-2

SUPPLY
VENT
RETURN
FILL

FORMER AST 32-1



GRAPHIC SCALE

SPORTENVDETHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (843) 743-6777

Site Map 3
ASTs AT BLDG 32
Charleston Naval Base
Charleston, SC

DWG DATE: 16 SEPT 98 | DWG NAME: A-32_3

ASTs at Building 32

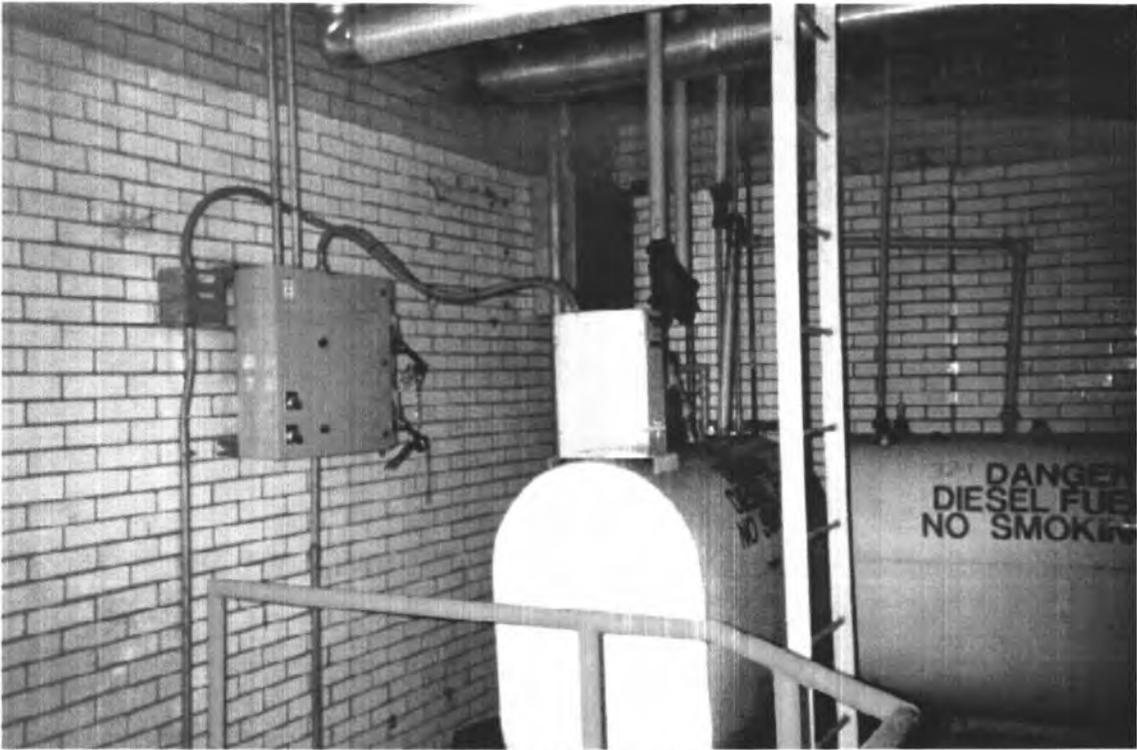


Photo 1: ASTs 32-1 and 32-2 inside building 32 before their removal.



Photo 2: AST 32-2 on the cutting pad.

ASTs at Building 32

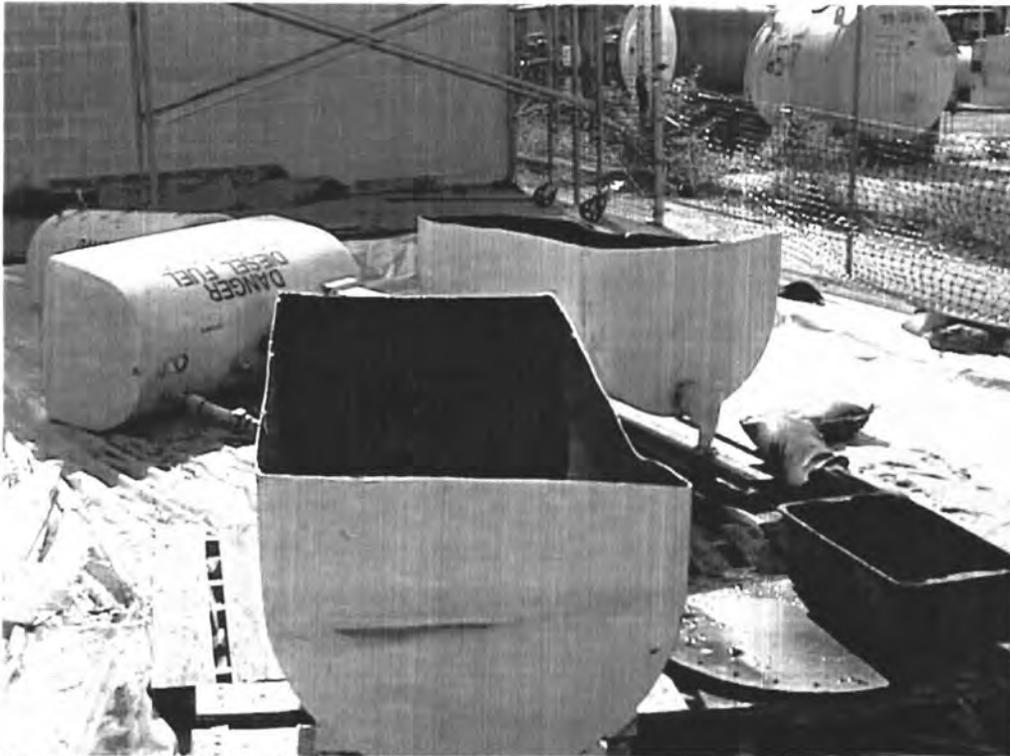


Photo 3: ASTs 32-1 and 32-2 during cutting.

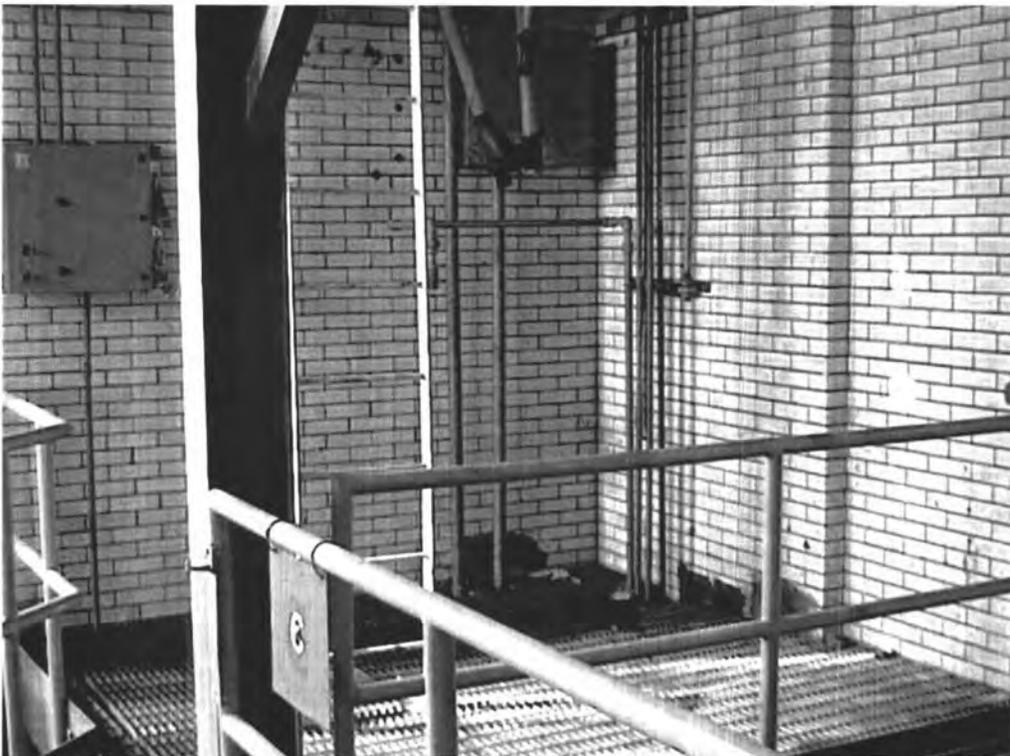


Photo 4: Location of ASTs 32-1 and 32-2 inside Building 32.

ASTs at Building 32

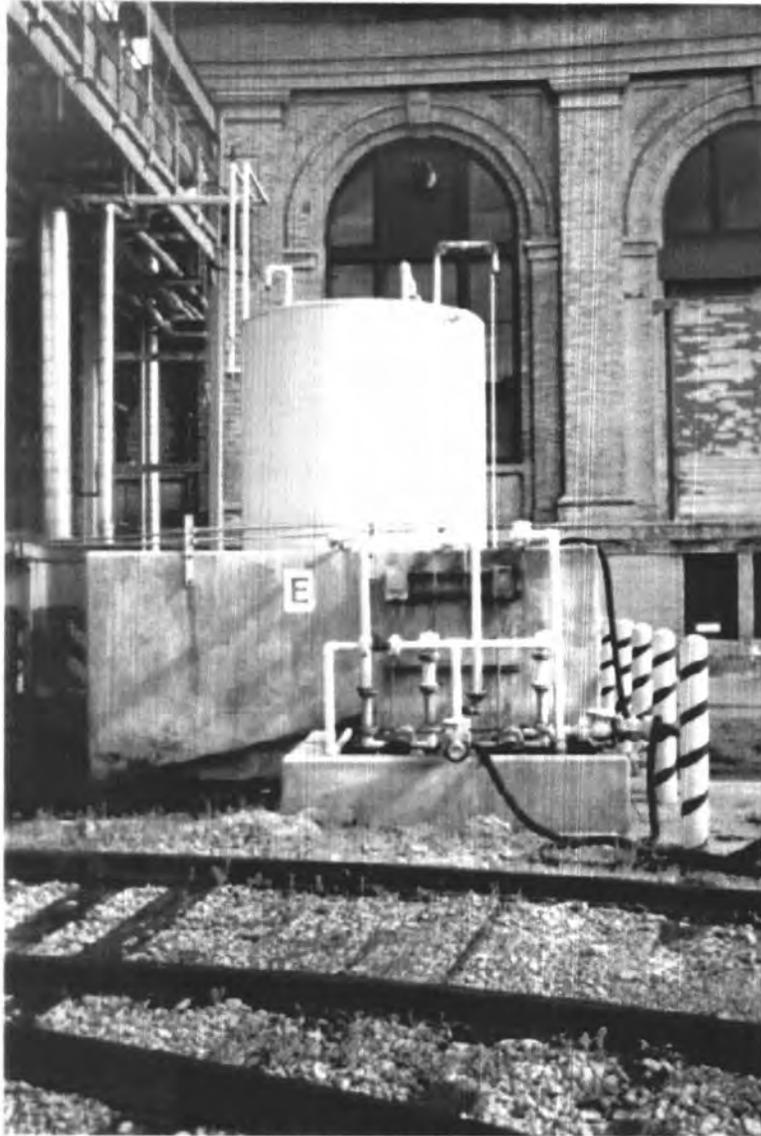


Photo 5: AST 32E and piping prior to removal.

ASTs at Building 32

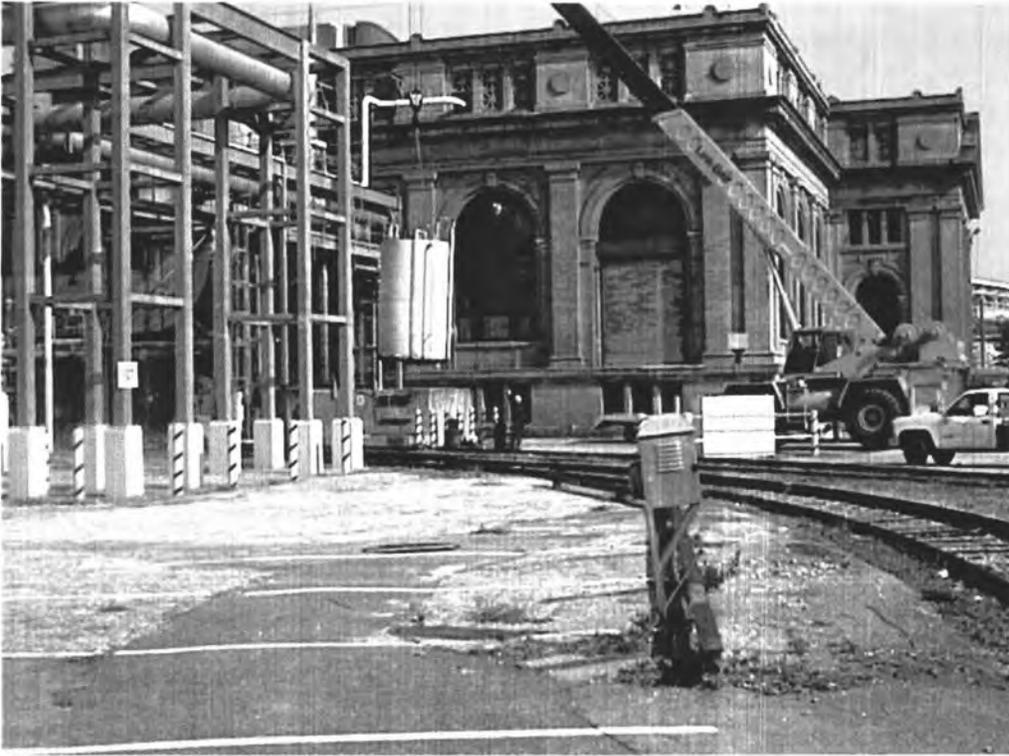


Photo 6: AST 32-E being hoisted from the berm.



Photo 7: AST 32-E concrete berm.

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.

No samples were taken.

Attachment III

Certificate of Disposal (tank)

AST Certificate of Reuse

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

AST 32-E; Powerhouse, Building 32, Hobson Ave., N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

Fuel oil

SIZE (GAL)

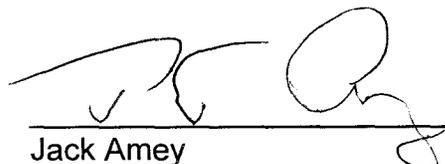
5,000 gal

CLEANING/DISPOSAL METHOD

The tank was removed and emptied and will be put to reuse by Environmental Detachment Charleston.

DISPOSAL CERTIFICATION

I certify that the above tank will be put to reuse.


Jack Amey 19/22/98
(Date)