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FINAL RESOURCE CONSERVATION AND RECOVERY ACT FACILITY ASSESSMENT VOLUME V CNC CHARLESTON SC

6/6/1995

ENSAFE

FINAL
RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
VOLUME V

SOUTHDIV Contract Number:
N62467-89-D-0318
CTO-029

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
Charleston, South Carolina

Prepared by:

EnSafe/Allen & Hoshall
935 Houston Northcutt Boulevard, Suite 113
Mt. Pleasant, South Carolina 29464
(803) 884-0029

June 6, 1995

DEPARTMENT OF THE NAVY
CHARLESTON NAVAL SHIPYARD
1351 FIRST STREET
CHARLESTON, S.C. 29408-2020

5090
Ser 106.2/0572
12 JUL 1995

Mr. G. Randall Thompson
Director, Division of Hazardous and Infectious Waste Management
Bureau of Solid and Hazardous Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RE: FORWARDING OF RCRA FACILITY ASSESSMENT VOLUMES I, II, III, IV, & V; FINAL

Dear Mr. Thompson:

Enclosed are three copies of the Final RCRA Facility Assessment (RFA) Volumes I, II, III, IV & V for the Charleston Naval Shipyard as required by its Hazardous and Solid Waste Amendments Part B Permit (EPA SCO 170 022 560). These RFAs have been changed to remove the word "Draft" from the affected pages. If you have any questions, please contact Amos Webb at (803) 743-5519.

Sincerely,

R L Laney

R. L. LANEY
Director, Occupational Safety,
Health and Environmental Office
By direction of the Commander

Encl:
(1) RCRA Facility Assessment Volumes I, II, III, IV, & V; Final

Copy to:
SCDHEC (Bowers, Walton)
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FINAL
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NAVAL BASE CHARLESTON
VOLUME V

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ACRONYM LIST

AA	Accumulation Area
AOC	Area of Concern
BOD_5	Biological Oxygen Demand
BRAC	Base Realignment and Closure
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CFR	Code of Federal Regulations
CNSY	Charleston Naval Shipyard
COD	Chemical Oxygen Demand
CSI	Confirmatory Sampling Investigation
DD	Drydock
DLA	Defense Logistics Agency
DRMO	Defense Reutilization and Marketing Office
EBS	Environmental Baseline Survey
EDTA	Ethylenediaminetetraacetic Acid
EOD	Explosive Ordnance Disposal
HAPs	Hazardous Air Pollutants
HSWA	Hazardous and Solid Waste Amendments
ICP	Inductively Coupled Plasma
MEK	Methyl Ethyl Ketone
MWR	Morale, Welfare, and Recreation
NCSD	North Charleston Sewer District
NFI	No Further Investigation
NPDES	National Pollutant Discharge Elimination System
NRMC	Naval Regional Medical Center
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PCE	Perchloroethylene
PEP	Propellants, Explosives, and Propellants
PM	Particulate Matter
POL	Petroleum, Oil, and Lubricants
ppb	Parts Per Billion
ppm	Parts Per Million
PVC	Polyvinyl Chloride

ACRONYM LIST

RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RU	Regulated Unit
SAA	Satellite Accumulation Area
SCDHEC	South Carolina Department of Health and Environmental Control
SCHWMR	South Carolina Hazardous Waste Management Regulations
SIMA	Shore Intermediate Maintenance Activity
SOUTHNAVFACENGCOM	Southern Division Naval Facilities Engineering Command
SWDA	Solid Waste Disposal Act
SWMUs	Solid Waste Management Units
THCs	Total Hydrocarbons
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
USTs	Underground Storage Tanks
UXO	Unexploded Ordnance
VOCs	Volatile Organic Compounds
VSI	Visual Site Inspection

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1.0 INTRODUCTION

In November 1984, Congress enacted the Hazardous and Solid Waste Amendments (HSWA) to the Solid Waste Disposal Act (SWDA). SWDA is more commonly known as the Resource Conservation and Recovery Act (RCRA) and will be referred to as RCRA herein. The HSWA established a RCRA corrective action program with a primary objective of cleaning up releases of hazardous waste or hazardous substances that may pose a threat to human health and the environment. The initial phase of the corrective action process is the RCRA Facility Assessment (RFA). The purpose of the RFA is to:

- Identify solid waste management units (SWMUs) and gather information on releases at RCRA facilities.

- Evaluate SWMUs and other areas of concern (AOCs) for releases to all media and regulated units for releases to media other than groundwater.

- Make preliminary determinations regarding releases of concern and the need for further actions and interim measures at the facility.

- Screen from further investigations those SWMUs and AOCs which do not pose a threat to human health and the environment.

Naval Base Charleston, South Carolina is located on the banks of the Cooper River in Charleston County, South Carolina. The installation consists of two major areas; an undeveloped spoil area on the east bank of the Cooper River on Clouter Island in Berkeley County, and a developed area on the west bank of the Cooper River. The developed portion of Naval Base Charleston lies on a peninsula, bounded on the west by the Ashley River and on the east by the Cooper River. Naval Base Charleston facilities adjacent to the main developed area include Naval Hospital Charleston and the Chicora Tank Farm, both located within 0.5 mile of the

western boundary of the installation. In addition to the areas listed above, there are four non-contiguous properties that are integral parts of the Naval Base Charleston. These are the Short Stay recreational facility in Monck's Corner, a degaussing facility in downtown Charleston, the Navy Annex facility adjacent to the Charleston Air Force Base, and the Naval Electronics facility on Sullivan's Island.

Naval Base Charleston is made up of several different command organizations. Of these, Charleston Naval Shipyard (CNSY) was designated as the *lead activity* for compliance with the Navy Hazardous Waste Management Program for all commands and activities at Naval Base Charleston. As the lead activity, CNSY is the holder of RCRA Part B Permit SCO 170 022 560. Section II.B.2 of the HSWA portion of the Part B Permit outlines the RFA requirements for CNSY.

In August 1987, Ebasco Services, Inc., under contract to the United States Environmental Protection Agency (USEPA) Region IV, prepared an Interim RFA of Naval Base Charleston which identified 24 SWMUs. On August 20-22, 1990, the USEPA and South Carolina Department of Health and Environmental Control (SCDHEC) performed an inspection of the installation which identified additional SWMUs. Subsequent to this inspection, Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) prepared two addendums to the 1987 RFA addressing the new SWMUs. Upon completion of the second addendum, a total of 36 SWMUs had been identified.

On August 10, 1993, CNSY notified the USEPA Region IV and SCDHEC of three additional SWMUs and 118 sites that would be evaluated for consideration as SWMUs or AOCs.

Since August 1993 and in conjunction with the Base Closure program, over 300 RFAs have been conducted at Naval Base Charleston (in addition to the original 36). These RFAs have been presented in several volumes. Additional volumes will be prepared as new sites are identified.

SWMU/AOC Site Location Maps for these volumes can be found in map pockets following the text of each volume. SWMUs are shown in Figures 4-A, 4-B, 4-C, 4-D, and 4-E; AOCs are shown in Figures 5A, 5B, 5C, and 5D. Tables 1-1, 1-1A, 1-2, and 1-2A summarize all SWMUs and AOCs contained within the RFA. Tables 1-1 and 1-2 are listed according to SWMU/AOC number; Tables 1-1A and 1-2A are listed according to building/facility number.

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
1	—	DRMO Storage Area	Hazardous Wastes, Lead	RFI	DRMO	A
2	—	Lead Contaminated Area	Lead	RFI	DRMO	A
3	—	Pesticide Mixing Area	Pesticides	RFI	Building 249	G
4	—	Pesticide Storage Building	Pesticides	RFI	Building 381	F
5	—	Battery Electrolyte Treatment Area	Acids	RFI	Building 1797 Area	E
6	—	Public Works Storage Yard (Old Corral)	Hazardous Wastes, Lead	RFI	Old Corral SW of Building 380	G
7	—	PCB Transformer Storage Yard	PCBs	RFI	Old Corral SW of Building 380	G
8	—	Oil Sludge Pit	Oil Sludges	RFI	Parking Area SW of Building 161	G
9	—	Closed Landfill	Industrial Wastes	RFI	Open Area Between Bainbridge and West Road	H
10	—	Hazardous Waste Storage Facility, Building 246	Industrial Wastes	RU	Building 246	G
11	—	Caustic Pond	Calcium Hydroxide	RFI	SE of Building 190	G
12	—	Old Fire Fighter Training Area	Petroleum	RFI	Southern Tip of Base	I
13	—	Current Fire Fighter Training Area	Petroleum	RFI	Building 1303 Area	H
14	—	Chemical Disposal Area	Decontaminating Agent	RFI	South of Building 1897	H
15	—	Incinerator	Products of Incomplete Combustion, Paper	RFI	South of Building 1843	H
16	—	Paint Storage Bunker	Paint, Thinner	RFI	West of Building X-55	I
17	—	Oil Spill Area	Oil	RFI	North Side of Building 61	H
18	—	PCB Spill Area	PCBs	RFI	Building 1278	E
19	—	Solid Waste Transfer Station	Solid Wastes	RFI	West of Least Tern Lane	H

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
20	—	Waste Disposal Area	Solid Wastes	RFI	NE of Building 903	H
21	—	Old Paint Storage Center (Waste Paint Storage Pad)	Paint, Thinner	RFI	Building 1275 Area	E
22	—	Old Plating Shop Wastewater Treatment System	Cadmium, Chromium	RFI	Alley Between Buildings 5 and 44	E
23	—	New Plating Shop Wastewater Treatment System	Heavy Metals, Solvents	RFI	Building 226	E
24	—	Waste Oil Reclamation Facility	Waste Oil	RFI	Fuel Farm Area	G
25	—	Building 44, Old Plating Operation	Cyanide, Metals	RFI	Building 44	E
26	—	Waste Storage Area, Building 64-40, Pier C	Paint, Thinner	NFI	Pier C Building 64-40	E
27	—	Waste Storage Area East End, Pier C	Paint, Thinner	NFI	East End Pier C	E
28	—	Waste Storage Area West End, Pier C	Paint, Thinner	NFI	West End Pier C	E
29	—	Building X-10	Hazardous Wastes	NFI	Building X-10	G
30	—	Building 13 SAA #39	Hazardous Wastes	NFI	Building 13	E
31	—	Waste Paint Storage Area Drydock #5	Paint, Thinner	NFI	Drydock #5	E
32	—	Waste Paint Storage Area Building 195	Paint, Thinner	NFI	Building 195	E
33	—	Waste Paint Storage Area West End, Drydock #2	Paint, Thinner	NFI	Drydock #2	E
34	—	MWR, Southeast of Building X-10	Refrigerant, Waste Oil	NFI	SE of Building X-10	G
35	—	Building X-12	Hazardous Wastes	NFI	Building X-12	G
36	—	Building 68 Battery Shop	Sulfuric Acid	RFI	Building 68	F
37	I - 4.1	Sanitary Sewer System	Industrial Wastes	RFI	Basewide	L
38	II - 4.1	Miscellaneous Storage, North of Building 1605	Waste Oil	CSI	North of Building 1605	A

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
39	I - 4.2	Former POL Drum Storage, Building 1604	Petroleum Products	RFI	North of Building 1604	A
40	I - 4.3	DRMO, Building 1640	Hazardous Wastes	RU	Building 1640	A
41	II - 4.2	Battery Charging Station, Building 1624	Lead, Sulfuric Acid	NFI	Building 1624	A
42	II - 4.3	Former Asphalt Plant and Tanks	Asphalt Products, Solvents, Degreasers	CSI	NW of Building 1803	A
43	II - 4.4	Publications and Printing Plant, Building 1628	Chromium, Lead	CSI	Building 1628	A
44	I - 4.4	Coal Storage Yard	Coal and Coal By-Products	RFI	South Side of Noisette Creek	C
45	I - 4.5	SAA, Building NH-51	Photograph Fixer/ Developer	NFI	Building NH-51	C
46	I - 4.6	Temporary SAA, Building NH-21	Lead Paint Removal Debris	NFI	Building NH-21	C
47	II - 4.5	Burning Dump, Building NSC 66 Area	Products of Incomplete Combustion	RFI	Building NSC 64, 66, 67	C
48	I - 4.7	SAA, Building 234	Photo Chemicals, Ammonia, EDTA Containers	NFI	Building 234	C
49	II - 4.6	Forklift Battery Charging Station, Building 219	Lead, Sulfuric Acid	NFI	Building 219	C
50	I - 4.8	SAA, Building NH-1	Xylene, Toluene, Coating Resin	NFI	Building NH-1	D
51	I - 4.9	SAA, Building NH-1	Xylene, Hazardous Wastes	NFI	Building NH-1	D
52	I - 4.10	SAA, Building NH-1	Hazardous Wastes	NFI	Building NH-1	D
53	I - 4.11	SAA, Building 212	Paint, Thinner	RFI Investigate w/ AOC 526	Building 212	E

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
54	I - 4.12	Former Abrasive Blasting Area	Blast Residue	RFI Investigate w/ SWMU 21	Building 1275 Area	E
55	I - 4.13	SAA, Building 59A	Paint, Thinner, Glue	NFI	Building 59A	E
56	I - 4.14	SAA, Building 2A	Adhesives	NFI	Building 2A	E
57	I - 4.15	SAA, Building 35	Petroleum Products	NFI	Building 35	E
58	I - 4.16	SAA, Building 35	Acids/Metals, Alcohol	NFI	Building 35	E
59	I - 4.17	SAA, Building 35	Hazardous Wastes	NFI	Building 35	E
60	I - 4.18	Less-Than-90-Day Accumulation Area, Building 2	Petroleum Products, Solvents, Paint	NFI	Building 2	E
61	I - 4.19	Less-Than-90-Day Accumulation Area, Building 228	Adhesives	NFI	Building 228	E
62	I - 4.20	SAA, Building 226	Plating Solution, Metal Hydroxide, Misc. Plating Supplies/Debris	NFI	Building 226	E
63	II - 4.7	Battery Charging Station, Former Building 73	Lead, Acids	CSI	Building 226 Area	E
64	I - 4.21	SAA, Building 56	Paint	NFI	Building 56	E
65	I - 4.22	Lead Storage Area, Building 221	Lead	RFI	Building 221	E
66	I - 4.23	SAA, Pier C	Paint	NFI	Pier C	E
67	II - 4.8	Mercury Gauge Room, Building 3	Mercury	CSI	Building 3	E
68	I - 4.24	SAA, Building 5	Adhesives, Paints	NFI	Building 5	E
69	I - 4.25	SAA, Building 5	Paint, Adhesives	NFI	Building 5	E

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
70	II - 4.9	Dip Tank Area, Building 5	Copper, Chromium Arsenate	RFI	Building 5	E
71	I - 4.26	SAA, Building 44	Petroleum Products, Metal Shavings	NFI	Building 44	E
72	II - 4.10	Less-Than-90-Day Accumulation Area, Building 44	Metal Debris	NFI	Building 44	E
73	I - 4.27	SAA, Building 43	Petroleum Products, Used Coolants, Solvents	NFI	Building 43	E
74	I - 4.28	SAA, Building 57	Tetrachloroethylene	NFI	Building 57	E
75	I - 4.29	SAA, Drydock #1	Hazardous Wastes	NFI	Drydock #1	E
76	I - 4.30	SAA, Building 32	Paint, Hazardous Wastes	NFI	Building 32	E
77	I - 4.31	SAA, Drydock #2	Paint, Hazardous Wastes	NFI	Drydock #2	E
78	I - 4.32	SAA, Drydock #2	Hazardous Wastes	NFI	Drydock #2	E
79	I - 4.33	SAA, Building 250	Hazardous Wastes	NFI	Building 250	E
80	II - 4.11	Paint Shop Storage, Building 194	Lead, Paint, Solvents, Sand-Blasting Grit	CSI	Building 194	E
81	I - 4.34	Less-Than-90-Day Accumulation Area, Building 1245	Paint, Trichloroethane	CSI	Building 1245	E
82	I - 4.35	SAA, Building 177	Solvents, Xylene, Petroleum Products, Adhesives, Preservatives, Acetone, MEK, Toluene	NFI	Building 177	E
83	I - 4.36	Building 9 Foundry	Lead, Solvents, PCBs	RFI	Building 9	E
84	I - 4.37	Lead Storage, Building 9	Lead	RFI	Building 9	E

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
85	I - 4.38	SAA, Building 9	Paint Debris, Petroleum Products	NFI	Building 9	E
86	I - 4.39	Less-Than-90-Day Accumulation Area, Building 9	Paint, Petroleum Products	NFI	Building 9	E
87	I - 4.40	Less-Than-90-Day Accumulation Area, Building 80	Paint, Petroleum Products, Mercury, Chelating Agents	CSI	Building 80	E
88	I - 4.41	SAA, Building 25	Hazardous Waste Storage	NFI	Building 25	E
89	I - 4.42	SAA, Building 13	Acids/Metals, Lab Samples, Freon 133	NFI	Building 13	E
90	I - 4.43	SAA, Building 13	Petroleum Products	NFI	Building 13	E
91	I - 4.44	SAA, Building 13	Petroleum Products	NFI	Building 13	E
92	I - 4.45	SAA, Building 13	Acids/Metals (ICP Waste)	NFI	Building 13	E
93	I - 4.46	SAA, Building 13	Kodak Fixer, Miscellaneous	NFI	Building 13	E
94	I - 4.47	SAA, Building 13	Acids, Acids/Metals, Alcohol	NFI	Building 13	E
95	I - 4.48	SAA, Building 13	Used Analytical Reagents	NFI	Building 13	E
96	I - 4.49	Less-Than-90-Day Accumulation Area, Building 236	Petroleum Products, Paint	NFI	Building 236	E
97	I - 4.50	Less-Than-90-Day Accumulation Area, Building 236	Petroleum Products, Solvents	CSI	Building 236	E
98	I - 4.51	SAA, Pier G	Hazardous Waste Storage	NFI	Pier G	E
99	I - 4.52	SAA, Pier G	Marine Anti-Foulant Paint, Thinner	NFI	Pier G	E
100	I - 4.53	SAA, Building 218	Petroleum Products, Paint, Sandblast Grit	RFI	Building 218	E

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
101	I - 4.54	Less-Than-90-Day Accumulation Area, Building 1173	Hazardous Waste Accumulation	NFI	Building 1173	E
102	II - 4.12	Mercury Spill, Building 79	Mercury	CSI	Building 79	E
103	I - 4.55	SAA, Drydock #5	Hazardous Waste Storage	NFI	Drydock #5	E
104	Not Included in this Document	Reserved	—	—	—	E
105	I - 4.56	SAA, Building 1518 (Diver's Locker)	Petroleum Products, Marine Anti-Foulant Paint, Thinner	NFI	Building 1518	E
106	I - 4.57	Blast Area in Drydock #3	Blast Residue	RFI	Drydock #3	E
107	I - 4.58	Temporary SAA, CBU-412 Chapel	Lead Paint Removal, Construction Debris	NFI	Chapel CBU-412	F
108	I - 4.59	SAA, Building 187	Hazardous Waste Storage	NFI	Building 187	F
109	I - 4.60	Abrasive Blast Media Storage Area	Blast Media	CSI	Structures 1364, 1365, 1393	F
110	I - 4.61	SAA, Building 1346	Paint, Grease	NFI	Building 1346	F
111	I - 4.62	SAA, Building 241	Marine Anti-Foulant Paint, Thinner	NFI	Building 241	F
112	I - 4.63	SAA, Building 241	Marine Anti-Foulant Paint, Thinner	NFI	Building 241	F
113	I - 4.64	SAA, Building 241	Marine Anti-Foulant Paint, Thinner, Petroleum Products	NFI	Building 241	F
114	I - 4.65	SAA, Building 241	Petroleum Products	NFI	Building 241	F

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
115	I - 4.66	SAA, Building 242	Petroleum Products	NFI	Building 242	F
116	I - 4.67	SAA, Building 1175	Petroleum Products	NFI	Building 1175	F
117	I - 4.68	SAA, Building 249	Marine Anti-Foulant Paint, Thinner	NFI	Building 249	G
118	II - 4.14	Temporary SAA, Pier Z	Marine Anti-Foulant Paint, Thinner	NFI	Pier Z	G
119	II - 4.15	Garbage Handling, Facility 1271	Solid Wastes	NFI	End of Building 336	G
120	I - 4.69	Pier M Laydown	Marine Anti-Foulant Paint, Thinner, Lead	RFI	Pier M	G
121	I - 4.70	SAA, Building 801	VOCs, Metals, Petroleum Products	RFI Investigate w/ SWMU 9	Building 801	H
122	I - 4.71	SAA, Building 636	Marine Anti-Foulant Paint, Thinner, Grease	NFI	Building 636	H
123	I - 4.72	SAA, Building 636	Marine Anti-Foulant Paint, Thinner, Grease	NFI	Building 636	H
124	I - 4.73	SAA, Building 1508	Marine Anti-Foulant Paint, Thinner, Petroleum Products	NFI	Building 1508	H
125	I - 4.74	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
126	I - 4.75	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
127	I - 4.76	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
128	I - 4.77	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
129	I - 4.78	SAA, Building 202	Spent OBA Canisters	NFI	Building 202	H

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
130	I - 4.79	SAA, Building 202	Petroleum Products	NFI	Building 202	H
131	I - 4.80	SAA, Building NS-67	Dry Paint Waste	NFI	Building NS-67	H
132	I - 4.81	SAA, Building FBM 61	Mercuric Nitrate	NFI	Building 61	H
133	I - 4.82	SAA, Building FBM 61	Borate Cupric Sulfate, Petroleum Products	NFI	Building 61	H
134	I - 4.83	SAA, Building FBM 61	Hazardous Waste Storage	NFI	Building 61	H
135	I - 4.84	SAA, Building FBM 61	Hazardous Waste Storage	NFI	Building 61	H
136	I - 4.85	SAA, Building NS-53	VOCs, Metals, Petroleum Products	CSI	Building NS-53	H
137	I - 4.86	SAA, Building 675	Photograph Fixer	NFI	Building 657	H
138	I - 4.87	SAA, Building 1776	VOCs, Waste Oil, Petroleum Products, Antifreeze	CSI	Building 1776	H
139	II - 4.16	Former Temporary SAA, Pier P	Marine Anti-Foulant Paint, Thinner	NFI	Pier P	I
140	II - 4.17	Temporary SAA, Pier P	Marine Anti-Foulant Paint, Thinner	NFI	Pier P	I
141	I - 4.88	Temporary SAA, Pier Q	Marine Anti-Foulant Paint, Thinner	NFI	Pier Q	I
142	I - 4.89	Less-Than-90-Day Accumulation Area, Building 681	Paint, Aerosol	NFI	Building 681	I
143	III - 4.1	Building 222	Mercuric Nitrate, Silver Nitrate, Chromium, Lead, Flammable Wastes, Chromium/Lead Paint	NFI	Building 222	E

Table 1-1
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
144	III - 4.2	SAA, Building 222, CNSY Permit #88	Flammable Wastes, Lead, Cadmium, Brass, Bronze	NFI	Building 222	E
145	III - 4.3	Mercury Spill Area, Building 13A	Mercury	CSI	Under Building 13A	E
146	III - 4.4	SAA, Building 13A, CNSY Permit #85	Lead	NFI	Building 13A	E
147	III - 4.5	SAA, Pier C, CNSY Permit #79	Waste Oil, Aerosol Cans	NFI	Pier C	E
148	III - 4.6	SAA, Building 194, CNSY Permit #81	Marine Anti-Foulant Paint Waste, Thinner	NFI	Building 194	E
149	III - 4.7	Metal Trades SAA, Drydock #5, CNSY Permit #T06	Marine Anti-Foulant Paint Waste, Thinner	NFI	Drydock #5 Area	E
150	III - 4.8	Braswell Shipyard SAA, Pier Z, CNSY Permit #93	Paint Wastes, Thinner	NFI	Pier Z	G
151	III - 4.9	Building 79A	Mercuric Nitrate, Silver Nitrate, Chromium, Lead, Flammable Wastes, Chromium/Lead Paint	NFI	Building 79A	E
152	III - 4.10	SAA, Building 79A, CNSY Permit #92	Flammable Wastes, Lead, Brass, Bronze	NFI	Building 79A	E
153	III - 4.11	SAA, Pier H, CNSY Permit #91	Marine Anti-Foulant Paint Waste, Thinner	NFI	Pier H	E
154	III - 4.12	SAA, Pier H, CNSY Permit #80	Waste Oil, Aerosol Cans	NFI	Pier H	E
155	III - 4.13	Building 101	Chromium, Lead, Flammable Wastes, Chromium/Lead Paint	NFI	Building 101	E
156	III - 4.14	SAA, Drydock #4 Pierside, CNSY Permit #86	Lead, PPE	NFI	Drydock #4 Area	E
157	III - 4.15	Less-Than-90-Day Accumulation Area, Building 1278, CNSY Permit #83	Investigation Derived Waste (IDW)	NFI	Building 1278	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
158	III - 4.16	SAA, Pier M Quaywall, CNSY Permit #82	Paint Wastes	NFI	Pier M Quaywall	G
159	III - 4.17	SAA, Building 665, CNSY Permit #90	Aerosol Cans	RFI	Building 665	H
160	III - 4.18	SAA, Port Services, CNSY Permit #95	Waste Oil	NFI	Pier S Quaywall	I
161	IV - 4.1	Vehicle Maintenance Shop, Marine Reserve Center	Petroleum Products	CSI	Building 2505, Naval Annex	K
162	IV - 4.2	Sludge Drying Field, MOMAG 11	Heavy Metals	CSI	South of Building 2509, Naval Annex	K
163	IV - 4.3	Concrete Pit Area 10' 10' x 2' at MOMAG 11	Paint, Spent Solvents, Heavy Metals, Methane	CSI	North of Building 2513 Naval Annex	K
164	IV - 4.4	Blasting Operation, MOMAG 11	Lead, Cadmium	CSI	Building 2556, Naval Annex	K
165	IV - 4.5	Painting Operation, MOMAG 11	Paint, Lead	NFI	Building 2556, Naval Annex	K
166	IV - 4.6	Sewer System, Naval Annex	Heavy Metals, Petroleum Products, Waste Paint, Solvents	CSI	Basewide, Naval Annex	K
167	IV - 4.7	Less-Than-180-Day Accumulation Area, MOMAG 11, CNSY Permit #94	Waste Paints, Petroleum Products, Spent Solvents, Batteries, Heavy Metals, Aerosol Cans	NFI	South of Building 2522, Naval Annex	K
168	IV - 4.8	Building 2A, Temporary Metal Storage Area	Zinc, Metals	NFI	Building 2A, Between Buildings 2 and 59	E
169	IV - 4.9	Building 57, Touch-up Painting Operations	Waste Paint, Paint Thinner, Heavy Metals	NFI	Building 57	E
170	IV - 4.10	Drydock #1 Area, PCB Removal Operations	PCBs	CSI	Drydock #1 Area	E
171	IV - 4.11	Drydock #2 Area, PCB Removal Operations	PCBs	CSI	Drydock #2 Area	E
172	IV - 4.12	Building 80, Steam Cleaning Operations	Petroleum Products	CSI	Building 80	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
173	IV - 4.13	Building 1297, Storage Area	Lead Zinc Misc. Chemicals Unlabelled Drums	CSI	Building 1297	E
174	IV - 4.14	Air Compressor Oil Blowdown, Building 97	Petroleum Lubricating Oils	NFI	Building 97	F
175	IV - 4.15	Crane Painting Area, Near Building 1277	Paint Constituents Heavy Metals Lead Acetone Xylenes Toluene	RFI	South of Building 1277	F
176	IV - 4.16	Transformer Oil Leak, Near Building 657	PCBs	NFI	Building 657	H
177	IV - 4.17	RTC-4 Oil Spill	Petroleum Products	CSI	Building RTC-4	I
178	IV - 4.18	Site of Apparent Transformer Fire Outside of Building NS-53	PCBs Wood Preservatives	CSI	Building NS-53	H
179	IV - 4.19	SAA, Building 222, Shipping and Receiving, CNSY Permit #90	Flammable Wastes Lead Cadmium Brass Bronze	NFI	Building 222	E
180	IV - 4.20	SAA, Building 222, New Fuel Enclosure, CNSY Permit #102	Flammable Wastes Lead Cadmium Brass Bronze	NFI	Building 222	E
181	V - 4.1	SAA, Metal Trades, CNSY Permit #99	Lead Petroleum Products	CSI	Pier C	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
182	V - 4.2	SAA, Ships Forces, CNSY Permit #102	Lead Petroleum Products Solvents	NFI	Pier C	E
183	V - 4.3	Less-Than-90-Day Accumulation Area, Building 79A, CNSY Permit #89	Lead Brass Bronze Chromium Cadmium Alcohol	NFI	Building 79A High Bay	E
184	V - 4.4	SAA, Building 79A, CNSY Permit #106	Brass Bronze	NFI	Building 79A High Bay	E
185	Not Included in this Document	Reserved	—	—	—	E
186	V - 4.5	SAA, Building 58, CNSY Permit #105	Lead Chromium	NFI	Building 58, Outside	C
187	V - 4.6	SAA, Paint Waste, CNSY Permit #101	Lead Petroleum Products Solvents	NFI	Head of Drydock #5, North Side	E
188	V - 4.7	SAA, Paint Waste, CNSY Permit #103	Lead Petroleum Products Solvents	RFI	South Side of Drydock #5, Midway	E
189	V - 4.8	SAA, Building 222 Fenced in Area, CNSY Permit #108	Brass Bronze Cadmium	NFI	Building 222, Outside West End	E
190	V - 4.9	SAA, Pier J, CNSY Permit #110	Brass Cadmium Lead	NFI	Pier J	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
191	V - 4.10	SAA, Pier G, CNSY Permit #98	Paint and Oil Waste	NFI	Pier G	E
192	V - 4.11	SAA, Building 222, CNSY Permit #111	Brass Cadmium Lead Bronze Chromium	NFI	Building 222	E
193	V - 4.12	SAA, Building 79A, CNSY Permit #107	Brass Bronze	NFI	Building 79A, Fenced in Area	E
194	V - 4.13	Building 197, Paint Storage, Naval Short Stay	Paint Waste	NFI	Building 197, Short Stay	K
195	V - 4.14	Building 207, Flammable Storage, Naval Short Stay	Petroleum Products Solvents	NFI	Building 207, Short Stay	K

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
50	I - 4.8	SAA, Building NH-1	Xylene, Toluene, Coating Resin	NFI	Building NH-1	D
51	I - 4.9	SAA, Building NH-1	Xylene, Hazardous Wastes	NFI	Building NH-1	D
52	I - 4.10	SAA, Building NH-1	Hazardous Wastes	NFI	Building NH-1	D
75	I - 4.29	SAA, Drydock #1	Hazardous Wastes	NFI	Drydock #1	E
170	IV - 4.10	Drydock #1 Area, PCB Removal Operations	PCBs	CSI	Drydock #1 Area	E
33	—	Waste Paint Storage Area West End, Drydock #2	Paint, Thinner	NFI	Drydock #2	E
56	I - 4.14	SAA, Building 2A	Adhesives	NFI	Building 2A	E
60	I - 4.18	Less-Than-90-Day Accumulation Area, Building 2	Petroleum Products, Solvents, Paint	NFI	Building 2	E
77	I - 4.31	SAA, Drydock #2	Paint, Hazardous Wastes	NFI	Drydock #2	E
78	I - 4.32	SAA, Drydock #2	Hazardous Wastes	NFI	Drydock #2	E
168	IV - 4.8	Building 2A, Temporary Metal Storage Area	Zinc, Metals	NFI	Building 2A, Between Buildings 2 and 59	E
171	IV - 4.11	Drydock #2 Area, PCB Removal Operations	PCBs	CSI	Drydock #2 Area	E
67	II - 4.8	Mercury Gauge Room, Building 3	Mercury	CSI	Building 3	E
106	I - 4.57	Blast Area in Drydock #3	Blast Residue	RFI	Drydock #3	E
156	III - 4.14	SAA, Drydock #4 Pierside, CNSY Permit #86	Lead, PPE	NFI	Drydock #4 Area	E
177	IV - 4.17	RTC-4 Oil Spill	Petroleum Products	CSI	Building RTC-4	I
22	—	Old Plating Shop Wastewater Treatment System	Cadmium, Chromium	RFI	Alley Between Buildings 5 and 44	E
31	—	Waste Paint Storage Area Drydock #5	Paint, Thinner	NFI	Drydock #5	E

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
68	I - 4.24	SAA, Building 5	Adhesives, Paints	NFI	Building 5	E
69	I - 4.25	SAA, Building 5	Paint, Adhesives	NFI	Building 5	E
70	II - 4.9	Dip Tank Area, Building 5	Copper, Chromium Arsenate	RFI	Building 5	E
103	I - 4.55	SAA, Drydock #5	Hazardous Waste Storage	NFI	Drydock #5	E
149	III - 4.7	Metal Trades SAA, Drydock #5, CNSY Permit #T06	Marine Anti-Foulant Paint Waste, Thinner	NFI	Drydock #5 Area	E
187	V - 4.6	SAA, Paint Waste, CNSY Permit #101	Lead Petroleum Products Solvents	NFI	Head of Drydock #5, North Side	E
188	V - 4.7	SAA, Paint Waste, CNSY Permit #103	Lead Petroleum Products Solvents	RFI	South Side of Drydock #5, Midway	E
83	I - 4.36	Building 9 Foundry	Lead, Solvents, PCBs	RFI	Building 9	E
84	I - 4.37	Lead Storage, Building 9	Lead	RFI	Building 9	E
85	I - 4.38	SAA, Building 9	Paint Debris, Petroleum Products	NFI	Building 9	E
86	I - 4.39	Less-Than-90-Day Accumulation Area, Building 9	Paint, Petroleum Products	NFI	Building 9	E
29	—	Building X-10	Hazardous Wastes	NFI	Building X-10	G
34	—	MWR, Southeast of Building X-10	Refrigerant, Waste Oil	NFI	SE of Building X-10	G
35	—	Building X-12	Hazardous Wastes	NFI	Building X-12	G
30	—	Building 13 SAA #39	Hazardous Wastes	NFI	Building 13	E
89	I - 4.42	SAA, Building 13	Acids/Metals, Lab Samples, Freon 133	NFI	Building 13	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
90	I - 4.43	SAA, Building 13	Petroleum Products	NFI	Building 13	E
91	I - 4.44	SAA, Building 13	Petroleum Products	NFI	Building 13	E
92	I - 4.45	SAA, Building 13	Acids/Metals (ICP Waste)	NFI	Building 13	E
93	I - 4.46	SAA, Building 13	Kodak Fixer, Miscellaneous	NFI	Building 13	E
94	I - 4.47	SAA, Building 13	Acids, Acids/Metals, Alcohol	NFI	Building 13	E
95	I - 4.48	SAA, Building 13	Used Analytical Reagents	NFI	Building 13	E
145	III - 4.3	Mercury Spill Area, Building 13A	Mercury	CSI	Under Building 13A	E
146	III - 4.4	SAA, Building 13A, CNSY Permit #85	Lead	NFI	Building 13A	E
46	I - 4.6	Temporary SAA, Building NH-21	Lead Paint Removal Debris	NFI	Building NH-21	C
88	I - 4.41	SAA, Building 25	Hazardous Waste Storage	NFI	Building 25	E
76	I - 4.30	SAA, Building 32	Paint, Hazardous Wastes	NFI	Building 32	E
57	I - 4.15	SAA, Building 35	Petroleum Products	NFI	Building 35	E
58	I - 4.16	SAA, Building 35	Acids/Metals, Alcohol	NFI	Building 35	E
59	I - 4.17	SAA, Building 35	Hazardous Wastes	NFI	Building 35	E
73	I - 4.27	SAA, Building 43	Petroleum Products, Used Coolants, Solvents	NFI	Building 43	E
25	—	Building 44, Old Plating Operation	Cyanide, Metals	RFI	Building 44	E
71	I - 4.26	SAA, Building 44	Petroleum Products, Metal Shavings	NFI	Building 44	E
72	II - 4.10	Less-Than-90-Day Accumulation Area, Building 44	Metal Debris	NFI	Building 44	E
45	I - 4.5	SAA, Building NH-51	Photograph Fixer/ Developer	NFI	Building NH-51	C

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
136	I - 4.85	SAA, Building NS-53	VOCs, Metals, Petroleum Products	CSI	Building NS-53	H
178	IV - 4.18	Site of Apparent Transformer Fire Outside of Building NS-53	PCBs Wood Preservatives	CSI	Building NS-53	H
16	—	Paint Storage Bunker	Paint, Thinner	RFI	West of Building X-55	I
64	I - 4.21	SAA, Building 56	Paint	NFI	Building 56	E
74	I - 4.28	SAA, Building 57	Tetrachloroethylene	NFI	Building 57	E
169	IV - 4.9	Building 57, Touch-up Painting Operations	Waste Paint, Paint Thinner, Heavy Metals	NFI	Building 57	E
186	V - 4.5	SAA, Building 58, CNSY Permit #105	Lead Chromium	NFI	Building 58, Outside	C
55	I - 4.13	SAA, Building 59A	Paint, Thinner, Glue	NFI	Building 59A	E
17	—	Oil Spill Area	Oil	RFI	North Side of Building 61	H
132	I - 4.81	SAA, Building FBM 61	Mercuric Nitrate	NFI	Building 61	H
133	I - 4.82	SAA, Building FBM 61	Borate Cupric Sulfate, Petroleum Products	NFI	Building 61	H
134	I - 4.83	SAA, Building FBM 61	Hazardous Waste Storage	NFI	Building 61	H
135	I - 4.84	SAA, Building FBM 61	Hazardous Waste Storage	NFI	Building 61	H
47	II - 4.5	Burning Dump, Building NSC 66 Area	Products of Incomplete Combustion	RFI	Building NSC 64, 66, 67	C
26	—	Waste Storage Area, Building 64-40, Pier C	Paint, Thinner	NFI	Pier C Building 64-40	E
131	I - 4.80	SAA, Building NS-67	Dry Paint Waste	NFI	Building NS-67	H

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
36	—	Building 68 Battery Shop	Sulfuric Acid	RFI	Building 68	F
102	II - 4.12	Mercury Spill, Building 79	Mercury	CSI	Building 79	E
151	III - 4.9	Building 79A	Mercuric Nitrate, Silver Nitrate, Chromium, Lead, Flammable Wastes, Chromium/Lead Paint	NFI	Building 79A	E
152	III - 4.10	SAA, Building 79A, CNSY Permit #92	Flammable Wastes, Lead, Brass, Bronze	NFI	Building 79A	E
183	V - 4.3	Less-Than-90-Day Accumulation Area, Building 79A, CNSY Permit #89	Lead Brass Bronze Chromium Cadmium Alcohol	NFI	Building 79A High Bay	E
184	V - 4.4	SAA, Building 79A, CNSY Permit #106	Brass Bronze	NFI	Building 79A High Bay	E
193	V - 4.12	SAA, Building 79A, CNSY Permit #107	Brass Bronze	NFI	Building 79A, Fenced in Area	E
87	I - 4.40	Less-Than-90-Day Accumulation Area, Building 80	Paint, Petroleum Products, Mercury, Chelating Agents	CSI	Building 80	E
172	IV - 4.12	Building 80, Steam Cleaning Operations	Petroleum Products	CSI	Building 80	E
174	IV - 4.14	Air Compressor Oil Blowdown, Building 97	Petroleum Lubricating Oils	NFI	Building 97	F
155	III - 4.13	Building 101	Chromium, Lead, Flammable Wastes, Chromium/Lead Paint	NFI	Building 101	E
8	—	Oil Sludge Pit	Oil Sludges	RFI	Parking Area SW of Building 161	G

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
82	I - 4.35	SAA, Building 177	Solvents, Xylene, Petroleum Products, Adhesives, Preservatives, Acetone, MEK, Toluene	NFI	Building 177	E
108	I - 4.59	SAA, Building 187	Hazardous Waste Storage	NFI	Building 187	F
11	—	Caustic Pond	Calcium Hydroxide	RFI	SE of Building 190	G
80	II - 4.11	Paint Shop Storage, Building 194	Lead, Paint, Solvents, Sand-Blasting Grit	CSI	Building 194	E
148	III - 4.6	SAA, Building 194, CNSY Permit #81	Marine Anti-Foulant Paint Waste, Thinner	NFI	Building 194	E
32	—	Waste Paint Storage Area Building 195	Paint, Thinner	NFI	Building 195	E
194	V - 4.13	Building 197, Paint Storage, Naval Short Stay	Paint Waste	NFI	Building 197, Short Stay	K
125	I - 4.74	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
126	I - 4.75	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
127	I - 4.76	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
128	I - 4.77	SAA, Building 202	Mercuric Nitrate Waste	NFI	Building 202	H
129	I - 4.78	SAA, Building 202	Spent OBA Canisters	NFI	Building 202	H
130	I - 4.79	SAA, Building 202	Petroleum Products	NFI	Building 202	H
195	V - 4.14	Building 207, Flammable Storage, Naval Short Stay	Petroleum Products Solvents	NFI	Building 207, Short Stay	K
53	I - 4.11	SAA, Building 212	Paint, Thinner	RFI Investigate w/ AOC 526	Building 212	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
100	I - 4.53	SAA, Building 218	Petroleum Products, Paint, Sandblast Grit	RFI	Building 218	E
49	II - 4.6	Forklift Battery Charging Station, Building 219	Lead, Sulfuric Acid	NFI	Building 219	C
65	I - 4.22	Lead Storage Area, Building 221	Lead	RFI	Building 221	E
143	III - 4.1	Building 222	Mercuric Nitrate, Silver Nitrate, Chromium, Lead, Flammable Wastes, Chromium/Lead Paint	NFI	Building 222	E
144	III - 4.2	SAA, Building 222, CNSY Permit #88	Flammable Wastes, Lead, Cadmium, Brass, Bronze	NFI	Building 222	E
179	IV - 4.19	SAA, Building 222, Shipping and Receiving, CNSY Permit #90	Flammable Wastes Lead Cadmium Brass Bronze	NFI	Building 222	E
180	IV - 4.20	SAA, Building 222, New Fuel Enclosure, CNSY Permit #102	Flammable Wastes Lead Cadmium Brass Bronze	NFI	Building 222	E
189	V - 4.8	SAA, Building 222 Fenced in Area, CNSY Permit #108	Brass Bronze Cadmium	NFI	Building 222, Outside West End	E
192	V - 4.11	SAA, Building 222, CNSY Permit #111	Brass Cadmium Lead Bronze Chromium	NFI	Building 222	E

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Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
23	—	New Plating Shop Wastewater Treatment System	Heavy Metals, Solvents	RFI	Building 226	E
62	I - 4.20	SAA, Building 226	Plating Solution, Metal Hydroxide, Misc. Plating Supplies/Debris	NFI	Building 226	E
63	II - 4.7	Battery Charging Station, Former Building 73	Lead, Acids	CSI	Building 226 Area	E
61	I - 4.19	Less-Than-90-Day Accumulation Area, Building 228	Adhesives	NFI	Building 228	E
48	I - 4.7	SAA, Building 234	Photo Chemicals, Ammonia, EDTA Containers	NFI	Building 234	C
96	I - 4.49	Less-Than-90-Day Accumulation Area, Building 236	Petroleum Products, Paint	NFI	Building 236	E
97	I - 4.50	Less-Than-90-Day Accumulation Area, Building 236	Petroleum Products, Solvents	CSI	Building 236	E
111	I - 4.62	SAA, Building 241	Marine Anti-Foulant Paint, Thinner	NFI	Building 241	F
112	I - 4.63	SAA, Building 241	Marine Anti-Foulant Paint, Thinner	NFI	Building 241	F
113	I - 4.64	SAA, Building 241	Marine Anti-Foulant Paint, Thinner, Petroleum Products	NFI	Building 241	F
114	I - 4.65	SAA, Building 241	Petroleum Products	NFI	Building 241	F
115	I - 4.66	SAA, Building 242	Petroleum Products	NFI	Building 242	F
10	—	Hazardous Waste Storage Facility, Building 246	Industrial Wastes	RU	Building 246	G
3	—	Pesticide Mixing Area	Pesticides	RFI	Building 249	G

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
117	I - 4.68	SAA, Building 249	Marine Anti-Foulant Paint, Thinner	NFI	Building 249	G
79	I - 4.33	SAA, Building 250	Hazardous Wastes	NFI	Building 250	E
119	II - 4.15	Garbage Handling, Facility 1271	Solid Wastes	NFI	End of Building 336	G
6	—	Public Works Storage Yard (Old Corral)	Hazardous Wastes, Lead	RFI	Old Corral SW of Building 380	G
7	—	PCB Transformer Storage Yard	PCBs	RFI	Old Corral SW of Building 380	G
4	—	Pesticide Storage Building	Pesticides	RFI	Building 381	F
107	I - 4.58	Temporary SAA, CBU-412 Chapel	Lead Paint Removal, Construction Debris	NFI	Chapel CBU-412	F
122	I - 4.71	SAA, Building 636	Marine Anti-Foulant Paint, Thinner, Grease	NFI	Building 636	H
123	I - 4.72	SAA, Building 636	Marine Anti-Foulant Paint, Thinner, Grease	NFI	Building 636	H
137	I - 4.86	SAA, Building 675	Photograph Fixer	NFI	Building 657	H
176	IV - 4.16	Transformer Oil Leak, Near Building 657	PCBs	NFI	Building 657	H
159	III - 4.17	SAA, Building 665, CNSY Permit #90	Aerosol Cans	RFI	Building 665	H
142	I - 4.89	Less-Than-90-Day Accumulation Area, Building 681	Paint, Aerosol	NFI	Building 681	I
121	I - 4.70	SAA, Building 801	VOCs, Metals, Petroleum Products	RFI Investigate w/ SWMU 9	Building 801	H
20	—	Waste Disposal Area	Solid Wastes	RFI	NE of Building 903	H
101	I - 4.54	Less-Than-90-Day Accumulation Area, Building 1173	Hazardous Waste Accumulation	NFI	Building 1173	E

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
116	I - 4.67	SAA, Building 1175	Petroleum Products	NFI	Building 1175	F
81	I - 4.34	Less-Than-90-Day Accumulation Area, Building 1245	Paint, Trichloroethane	CSI	Building 1245	E
21	—	Old Paint Storage Center (Waste Paint Storage Pad)	Paint, Thinner	RFI	Building 1275 Area	E
54	I - 4.12	Former Abrasive Blasting Area	Blast Residue	RFI Investigate w/ SWMU 21	Building 1275 Area	E
175	IV - 4.15	Crane Painting Area, Near Building 1277	Paint Constituents Heavy Metals Lead Acetone Xylenes Toluene	RFI	South of Building 1277	F
18	—	PCB Spill Area	PCBs	RFI	Building 1278	E
157	III - 4.15	Less-Than-90-Day Accumulation Area, Building 1278, CNSY Permit #83	Investigation Derived Waste (IDW)	NFI	Building 1278	E
173	IV - 4.13	Building 1297, Storage Area	Lead Zinc Misc. Chemicals Unlabelled Drums	CSI	Building 1297	E
13	—	Current Fire Fighter Training Area	Petroleum	RFI	Building 1303 Area	H
110	I - 4.61	SAA, Building 1346	Paint, Grease	NFI	Building 1346	F
109	I - 4.60	Abrasive Blast Media Storage Area	Blast Media	CSI	Structures 1364, 1365, 1393	F
124	I - 4.73	SAA, Building 1508	Marine Anti-Foulant Paint, Thinner, Petroleum Products	NFI	Building 1508	H

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
105	I - 4.56	SAA, Building 1518 (Diver's Locker)	Petroleum Products, Marine Anti-Foulant Paint, Thinner	NFI	Building 1518	E
39	I - 4.2	Former POL Drum Storage, Building 1604	Petroleum Products	RFI	North of Building 1604	A
38	II - 4.1	Miscellaneous Storage, North of Building 1605	Waste Oil	CSI	North of Building 1605	A
41	II - 4.2	Battery Charging Station, Building 1624	Lead, Sulfuric Acid	NFI	Building 1624	A
43	II - 4.4	Publications and Printing Plant, Building 1628	Chromium, Lead	CSI	Building 1628	A
40	I - 4.3	DRMO, Building 1640	Hazardous Wastes	RU	Building 1640	A
138	I - 4.87	SAA, Building 1776	VOCs, Waste Oil, Petroleum Products, Antifreeze	CSI	Building 1776	H
5	—	Battery Electrolyte Treatment Area	Acids	RFI	Building 1797 Area	E
42	II - 4.3	Former Asphalt Plant and Tanks	Asphalt Products, Solvents, Degreasers	CSI	NW of Building 1803	A
15	—	Incinerator	Products of Incomplete Combustion, Paper	RFI	South of Building 1843	H
14	—	Chemical Disposal Area	Decontaminating Agent	RFI	South of Building 1897	H
161	IV - 4.1	Vehicle Maintenance Shop, Marine Reserve Center	Petroleum Products	CSI	Building 2505, Naval Annex	K
162	IV - 4.2	Sludge Drying Field, MOMAG 11	Heavy Metals	CSI	South of Building 2509, Naval Annex	K
163	IV - 4.3	Concrete Pit Area 10' x 10' x 2' at MOMAG 11	Paint, Spent Solvents, Heavy Metals, Methane	CSI	North of Building 2513 Naval Annex	K
167	IV - 4.7	Less-Than-180-Day Accumulation Area, MOMAG 11, CNSY Permit #94	Waste Paints, Petroleum Products, Spent Solvents, Batteries, Heavy Metals, Aerosol Cans	NFI	South of Building 2522, Naval Annex	K

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
164	IV - 4.4	Blasting Operation, MOMAG 11	Lead, Cadmium	CSI	Building 2556, Naval Annex	K
165	IV - 4.5	Painting Operation, MOMAG 11	Paint, Lead	NFI	Building 2556, Naval Annex	K
27	—	Waste Storage Area East End, Pier C	Paint, Thinner	NFI	East End Pier C	E
28	—	Waste Storage Area West End, Pier C	Paint, Thinner	NFI	West End Pier C	E
66	I - 4.23	SAA, Pier C	Paint	NFI	Pier C	E
147	III - 4.5	SAA, Pier C, CNSY Permit #79	Waste Oil, Aerosol Cans	NFI	Pier C	E
181	V - 4.1	SAA, Metal Trades, CNSY Permit #99	Lead Petroleum Products	CSI	Pier C	E
182	V - 4.2	SAA, Ships Forces, CNSY Permit #102	Lead Petroleum Products Solvents	NFI	Pier C	E
98	I - 4.51	SAA, Pier G	Hazardous Waste Storage	NFI	Pier G	E
99	I - 4.52	SAA, Pier G	Marine Anti-Foulant Paint, Thinner	NFI	Pier G	E
191	V - 4.10	SAA, Pier G, CNSY Permit #98	Paint and Oil Waste	NFI	Pier G	E
153	III - 4.11	SAA, Pier H, CNSY Permit #91	Marine Anti-Foulant Paint Waste, Thinner	NFI	Pier H	E
154	III - 4.12	SAA, Pier H, CNSY Permit #80	Waste Oil, Aerosol Cans	NFI	Pier H	E
190	V - 4.9	SAA, Pier J, CNSY Permit #110	Brass Cadmium Lead	NFI	Pier J	E
120	I - 4.69	Pier M Laydown	Marine Anti-Foulant Paint, Thinner, Lead	RFI	Pier M	G
158	III - 4.16	SAA, Pier M Quaywall, CNSY Permit #82	Paint Wastes	NFI	Pier M Quaywall	G

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
139	II - 4.16	Former Temporary SAA, Pier P	Marine Anti-Foulant Paint, Thinner	NFI	Pier P	I
140	II - 4.17	Temporary SAA, Pier P	Marine Anti-Foulant Paint, Thinner	NFI	Pier P	I
141	I - 4.88	Temporary SAA, Pier Q	Marine Anti-Foulant Paint, Thinner	NFI	Pier Q	I
160	III - 4.18	SAA, Port Services, CNSY Permit #95	Waste Oil	NFI	Pier S Quaywall	I
118	II - 4.14	Temporary SAA, Pier Z	Marine Anti-Foulant Paint, Thinner	NFI	Pier Z	G
150	III - 4.8	Braswell Shipyard SAA, Pier Z, CNSY Permit #93	Paint Wastes, Thinner	NFI	Pier Z	G
1	—	DRMO Storage Area	Hazardous Wastes, Lead	RFI	DRMO	A
2	—	Lead Contaminated Area	Lead	RFI	DRMO	A
9	—	Closed Landfill	Industrial Wastes	RFI	Open Area Between Bainbridge and West Road	H
12	—	Old Fire Fighter Training Area	Petroleum	RFI	Southern Tip of Base	I
19	—	Solid Waste Transfer Station	Solid Wastes	RFI	West of Least Tern Lane	H
24	—	Waste Oil Reclamation Facility	Waste Oil	RFI	Fuel Farm Area	G
37	I - 4.1	Sanitary Sewer System	Industrial Wastes	RFI	Basewide	L
44	I - 4.4	Coal Storage Yard	Coal and Coal By-Products	RFI	South Side of Noisette Creek	C
166	IV - 4.6	Sewer System, Naval Annex	Heavy Metals, Petroleum Products, Waste Paint, Solvents	CSI	Basewide, Naval Annex	K

Table 1-1A
Solid Waste Management Unit Summary
Naval Base Charleston

SWMU Number	RFA Vol-Sec Number	SWMU Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
104	Not Included in this Document	Reserved	—	—	—	E
185	Not Included in this Document	Reserved	—	—	—	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
500	I - 5.1	UXO Site Between Piers S and T	2 Mark 47 TORPEX Loaded Depth Bombs	CSI Investigate w/EOD Team	Between Piers S and T	J
501	I - 5.2	UXO Site in Cooper River East of Buildings X-54 and X-55	2 Mark 47 TORPEX Loaded Depth Bombs	CSI Investigate w/EOD Team	Cooper River	J
502	I - 5.3	UXO Site Between Piers G and H	Three 5-inch Unexploded Shells at About 40 Feet Below MWL	CSI Investigate w/EOD Team	Between Piers G and H	J
503	I - 5.4	UXO Site South of Building 665	2 Mark 17 Depth Bombs	CSI Investigate w/EOD Team	South of Building 665	H
504	II - 5.1	Railroad System	Petroleum Products Batteries Lead Acids Coal	RFI	Basewide	L
505	II - 5.2	Creosote Cross-Tie/Ballast Storage Area and Golf Course Maintenance Building	Creosote and Degradation Products	RFI	Area of Building 1803	A
506	II - 5.3	Flammable Storage Shelter, Building 1629	Ignitable Materials	CSI	Building 1629	A
507	II - 5.4	Oil Storehouse, Former Building 1010	Petroleum Products	CSI	Golf Course Area (1410)	B
508	II - 5.5	Former Incinerator 19	Petroleum Products Metals Polynuclear Aromatic Hydrocarbons	CSI	Between St. Johns and Avenue H	C
509	II - 5.6	Hazardous/Flammable Storage, Building 1079	Ignitable Materials	NFI	Building 1079	C
510	II - 5.7	Laboratory, Building NH-21	Methyl Ethyl Ketone Acetone Methylene Chloride Solvents	CSI	Building NH-21	C
511	II - 5.8	Oil House, Former Building 16	Petroleum Products	CSI	North of Building 762	C

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Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
512	II - 5.9	Former Incinerator 67	Petroleum Products Metals Combustion Products	CSI	Building 1079	C
513	II - 5.10	Former Morgue	Formaldehyde Miscellaneous	CSI	SE of Building 45	C
514	II - 5.11	Flammable Storage, Building 1813	Paint Adhesive Petroleum Products	NFI	Building 1813	C
515	II - 5.12	Incinerator and Paint Shop 51, Building 233 Area	Paints Solvents	CSI	Building 233	C
516	I - 5.5	Wash Area, Building 233	Acid Petroleum Products	RFI	Building 233	C
517	II - 5.13	Indoor Firing Range, Building M-192	Lead	CSI	Building M-192	C
518	II - 5.14	Coal Storage Bins, Area of Building M-1257	Coal and Coal By-Products	CSI	Adjacent to Building M-1257	C
519	II - 5.15	Former Boiler House 1081	Petroleum Products	CSI	East of Building NH-55	C
520	II - 5.16	Garbage House, Former Building M-1051	Solid Wastes	CSI	Adjacent to Building M-17	C
521	II - 5.17	Oil Storehouse 1052, Facility M-1262	Petroleum Products	NFI	Building M-1262	C
522	II - 5.18	Grease and Wash Building, Former Building 1252	Petroleum Products	CSI	SW of Building 198	C
523	II - 5.19	Gas Station Storage, Former Building M-1234	Petroleum Products	CSI	Building 198	C
524	II - 5.20	Substation, Building 415A	PCBs	NFI	Building 415A	D
525	I - 5.6	Paint Shop, Building 223	Paint	RFI—Booth 35 NFI—Booths 36, 37, 38, 63	Building 223	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
526	I - 5.7	Paint Area, Building 212	Paint	RFI	Building 212	E
527	II - 5.21	Transformer House, Building 24	PCBs Petroleum Products	NFI	Near Building 3	E
528	II - 5.22	Steam Cleaning Shop	Grease Waste Oil Miscellaneous	CSI Investigate w/Sewer System	Building 59	E
529	I - 5.8	Coating and Spray Systems, Building 2A	Aluminum Cleaning Solvents	NFI	Building 2A	E
530	II - 5.23	Paint and Oil Storage, Building 35	Paints Solvents Petroleum Products	CSI	Building 35	E
531	II - 5.24	Substation and Storage, Building 459	PCBs Petroleum Products	CSI	Building 459	E
532	II - 5.25	Sump Collection Vats, Building 2	Preservatives	NFI	Building 2	E
533	II - 5.26	Substation, Building 460	PCBs Petroleum Products Lead	NFI	Building 460	E
534	II - 5.27	Latrine, Building 27	Organic Wastes Heavy Metals	NFI	Near Building 59	E
535	II - 5.28	Latrine, Building 28	Organic Wastes Heavy Metals	NFI	East of Building 2	E
536	II - 5.29	Substation, Building 460	PCBs Petroleum Products Lead	NFI	Building 460	E
537	II - 5.30	Substation, Building 342	PCBs Petroleum Products	CSI	Building 342	E
538	I - 5.9	Forge Shop, Building 6	Lead	RFI	Building 6	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
539	II - 5.31	Propeller Shop, Building 6	Zyglo	RFI Investigate w/AOC 538	Building 6	E
540	II - 5.32	Building 226 Plating Plant (Formerly Building 73 Battery Charging)	Heavy Metals	CSI	Building 226	E
541	II - 5.33	Oil Storage Shop, Former Building 38	Petroleum Products	CSI	Between Buildings 6 and 226	E
542	II - 5.34	Old Oxy-Acetylene Plant and Paint Shop, Building 226	Acetylene gas Paints Possible Solvents	CSI	Building 226 Area	E
543	II - 5.35	Former Building 1026; Building 226 Plating Plant	Zinc Inorganic Acids	CSI	Building 226	E
544	I - 5.10	Former Pickling Plant, Building 221	Lead	RFI	Building 221	E
545	I - 5.11	Surface Coating Operations, Building 3	Epoxy, Activator	NFI	Building 3	E
546	II - 5.36	Galvanizing/Pickling Shop, Building 1025	Zinc Inorganic Acids	CSI	Between South end of Buildings 56 and 74	E
547	II - 5.37	Fiberglass Shop, Building 5	Fiberglass Process Resins Miscellaneous	NFI	Building 5	E
548	II - 5.38	Hydraulic Elevator, Building 5	Hydraulic Oil	CSI	Building 5	E
549	II - 5.39	Scrap Yard 1054, Building 5	Heavy Metals	RFI	Building 5 Area	E
550	II - 5.40	Boiler House, Former Building 1111	Petroleum Products	CSI	SW of Building 62	E
551	II - 5.41	Boilerhouse, Building 1119	Coal By-Products	CSI	Pier 314	E
552	II - 5.42	Former Galvanizing Shop, Building 1030	Zinc Inorganic Acids	CSI	NE corner of Drydock #1	E
553	Not Included in this Document	Reserved	—	—	—	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
554	II - 5.44	Paint Shop, Former Building 1003	Lead Heavy Metals Acetone Xylenes Toluene	CSI	Between Buildings 5 and 44	E
555	II - 5.45	Latrine and Substation, Former Building 29	Organic Wastes Heavy Metals PCBs	CSI	SE side of Building 1119	E
556	I - 5.12	Drydock Discharges	Paint Wastes Blast Residue Waste Oils	RFI	Drydocks	E
557	II - 5.46	Latrine, Former Building 1020	Organic Wastes Heavy Metals	CSI	South of Drydock #1	E
558	II - 5.47	Electrical Substation, Building 177	PCBs Petroleum Products	CSI	Building 77	E
559	II - 5.48	Central Power Station, Building 32	Petroleum Products Combustion Products PCBs	RFI	Building 32	E
560	II - 5.49	Disinfector, Building 34	Infectious Wastes	CSI	South of Building 32	E
561	II - 5.50	Substation, Building 451B	PCBs Petroleum Products	RFI	Along Carolina Avenue	E
562	II - 5.51	Substation, Building 84	PCBs Petroleum Products	CSI	Building 84	E
563	II - 5.52	Locomotive House, Former Building 37	Solvents Degreasers	CSI	Building 177	E
564	II - 5.53	Oil/Water Separator, Building 80	Petroleum Products	CSI	North of Building 80	E
565	II - 5.54	Coal Bin, Former Building 1006	Coal and Coal By-Products	NFI	North of Drydock #5	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
566	II - 5.55	Paint Shop Storage, Building 194	Marine Anti-Foulant Paint Wastes Thinner	CSI	Building 194	E
567	II - 5.56	Substation, Building 75	PCBs Petroleum Products Lead	CSI	East of Building 195	E
568	II - 5.57	Former Latrine, Building 26	Organic Wastes Heavy Metals	NFI	Building 26	E
569	II - 5.58	Gasoline Station and Oil Storage, Former Building 1279	Petroleum Products	RFI	Attached to SW Corner of Building 30	E
570	II - 5.59	Former Coal Storage Area	Coal By-Products	RFI Investigate w/AOC 578	Building 1199 Area	E
571	I - 5.13	Paint Shop, Building 177	Marine Anti-Foulant Paint Thinner	RFI-Booth 33 NFI—Booths 31, 32, 34	Building 177	E
572	I - 5.14	Motor Area, Building 177	Petroleum Products	RFI	Building 177	E
573	II - 5.60	Anodizing Process, Building 177	Heavy Metals Acids Degreasers	CSI	Building 177	E
574	I - 5.15	Fuel Tank, Building 9	Petroleum	RFI	Building 9	E
575	II - 5.61	Substation, Building 454	PCBs Petroleum Products Lead	CSI	Building 454	E
576	II - 5.62	Oil and Paint Storehouse/Print Office, Former Building 1012	Heavy Metals Paints Solvents	CSI	Building 80	E
577	I - 5.16	Paint Booth, Building 25	Paint	NFI	Building 25	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
578	II - 5.63	Transportation Shop and Garage, Building 25	Petroleum Products Lead Solvents	RFI	Building 25	E
579	II - 5.64	Former Paint Shop, Building 1035	Paints Heavy Metals	CSI	Building 1035	E
580	II - 5.65	Former Pattern and Electric Shop, Building 10	Lead Zinc Solvents Degreasers	CSI	Building 10	E
581	II - 5.66	Substation and Radio Lab, Building 20	PCBs	NFI	NE of Building 236	E
582	II - 5.67	Substation, Building 455	PCBs Petroleum Products	NFI	Building 455	E
583	II - 5.68	Northeast Corner of Building 236	Freon Petroleum Products	RFI	Northeast Corner of Building 236	E
584	II - 5.69	Substation, Building 451H	PCBs Petroleum Products	NFI	Building 451H	E
585	II - 5.70	Latrine and Officers Club Storage, Former Building 36	Organic Wastes Heavy Metals	NFI	East of Drydock #5	E
586	II - 5.71	Temporary Powerhouse, Building 1014	Coal	CSI	Adjacent to Building 11	E
587	II - 5.72	Former Aviation Gas Storage, Building 21	Petroleum Products Lead	NFI	Building 21	E
588	I - 5.17	Paint Booth, Building 218	Paint	NFI	Building 218	E
589	II - 5.73	Substation, Building 85	PCBs Petroleum Products	NFI	Building 85	E
590	II - 5.74	Alley, Buildings 1760 and 79	Acetone Petroleum Products Metals	CSI	Between Buildings 79 and 1760	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
591	Not Included in this Document	Reserved	—	—	—	E
592	II - 5.76	Asbestos Shredding Shelter, Former Building 1225	Asbestos Waste	CSI	South of Building 1760	E
593	Not Included in this Document	Reserved	—	—	—	E
594	II - 5.78	Radcon Training & Offices, Building 190	Paint Petroleum Products	NFI	Building 190	E
595	II - 5.79	Oil & Paint Storehouse, Former Building 1018	Petroleum Products Paints Heavy Metals Solvents	NFI	SW of Building 101	E
596	II - 5.80	Former Torpedo Storage, Building 101	Explosives Propellants Solvents/Degreasers	CSI	Building 101	E
597	II - 5.81	Substation, Building 91	PCBs Petroleum Products Lead	CSI	Building 91	E
598	II - 5.82	Sonar Dome Area, End of Pier J	Blast Residue Marine Anti-Foulant Paint	RFI	End of Pier J	E
599	I - 5.18	Pump House, Pier J	Diesel Fuel	CSI	Pier J	E
600	II - 5.83	Coal and Oil Pier, Former Pier 318-L	Petroleum Products Coal By-Products	NFI	North of Drydock #3	E
601	II - 5.84	Oil Pier, Former Pier 319	Petroleum Products	NFI	South of Pier 317-F	E
602	II - 5.85	Substation and Storage, Building 95	PCBs Petroleum Products	CSI	Building 95	E

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
603	II - 5.86	Burning Dump, Drydock #3 Area	Solid Wastes, Products of Incomplete Combustion	CSI	Drydock #3	E
604	II - 5.87	Substation and Storage, Building 96	PCBs Petroleum Products	CSI	Building 96	E
605	II - 5.88	Waste Paint Storage Area, Pad 1278	Paint Petroleum Products Lead	RFI investigate w/SWMU 5	Drydock #4	E
606	I - 5.19	Paint Booth, Building 187	Paint	NFI	Building 187	F
607	I - 5.20	Dry Cleaning, Building 1189	Perchloroethylene	RFI	Building 1189	F
608	II - 5.89	Naval Exchange Storage Shed, Building 1263	Petroleum Products	NFI	Building 1263	F
609	I - 5.21	Service Station, Building 1346	Ethylene Glycol Petroleum Products	RFI	Building 1346	F
610	I - 5.22	Paint Booth, Building 241	Marine Anti-Foulant Paint Thinner	NFI	Building 241	F
611	II - 5.90	Grease Rack and Hobby Shop, Building 1264	Petroleum Products Solvents Degreasers Lead	CSI	Ninth Street and Enterprise Avenue	F
612	II - 5.91	Substation, Building 94	PCBs Petroleum Products	NFI	Building 94	F
613	II - 5.92	Old Locomotive Repair Shop, Former Building 1169	Petroleum Products Solvents	RFI	Building 242	F
614	I - 5.23	Paint Booth, Building 242	Paint	NFI	Building 242	F
615	II - 5.93	Old Chain Locker, Building 1391	Epoxies Resins	CSI	Building 255	F

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
616	II - 5.94	Paint Shop, Former Building 1201	Paints Heavy Metals	CSI	Building 69 Parking Lot	F
617	II - 5.95	Galvanizing Plant, Former Building 1176	Zinc Inorganic Acids	CSI	Building 69A	F
618	II - 5.96	Switching Substation, Building 466	PCBs Petroleum Products	NFI	Building 466	F
619	II - 5.97	Former Oil Storage Yard	Petroleum Products	CSI	Area of Buildings 1824, 1836, 316, 381	F
620	II - 5.98	Battery Shop, Building 68	Paint Solvents Petroleum Products	RFI Investigate w/SWMU 36	Building 68	F
621	II - 5.99	Battery Cracking Area, Building 68	Lead Acids	RFI investigate w/SWMU 5	Building 68	F
622	II - 5.100	Ballast Water Treatment Facility, Facility 3926	Petroleum Oils Metals	CSI Investigate w/AOC 626	NSC Fuel Farm	G
623	II - 5.101	Concrete Tank, Building 98	Petroleum Products	CSI Investigate w/AOC 626	Building 96	G
624	II - 5.102	Fuel Oil Booster Pumphouse, Building 98	Petroleum Products	RFI	Building 98	G
625	II - 5.103	Sludge Pumphouse, Building 3901B	Petroleum Products	CSI	Building 3901B	G
626	I - 5.24	Charleston Naval Supply Center Fuel Farm	Petroleum Products Waste Oil	RFI	Fuel Farm Area	G
627	II - 5.104	Oil Spill Area at Hobson Avenue and Viaduct Road	Petroleum Products	RFI	Hobson and Viaduct Roads	G
628	II - 5.105	Sandblasting Area, Southeast Area of Building 68	Paint Blast Residue	CSI	SE of Building 68	G

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
629	II - 5.106	Tank Truck/Car Loading/Unloading Facility	Petroleum Products Waste Oil	CSI Investigate w/AOC 626	Building 3913	G
630	II - 5.107	POL Sampling/Test Building, Building 3914	Petroleum Products	NFI	Building 3913	G
631	II - 5.108	Fueling Pier Kilo (K)	Petroleum Products	RFI	Pier Kilo	G
632	II - 5.109	Substation, Building 124	PCBs Petroleum Products	NFI	Building 124	G
633	II - 5.110	Substation, Building 451C	PCBs Petroleum Products	CSI	Building 451C	G
634	II - 5.111	Flammable Material Storage, Building 1814	Paint Flammable Material	CSI	SW of Building 224	G
635	II - 5.112	Paint and Oil Storehouse, Building 3902	PCBs Paints Petroleum Products Solvents Metals	RFI Investigate w/SWMU 6 and 7	Building 3902	G
636	II - 5.113	Torpedo Magazine, Building 161 Area	Explosives Propellants	CSI	Building 161	G
637	II - 5.114	Dump Area, Building 161 Area	Solid and Hazardous Wastes	CSI	Building 161 Area	G
638	II - 5.115	Torpedo Workshop, Building 132	Explosives Propellants	CSI	Building 132	G
639	II - 5.116	Alcohol Storage	Alcohol	NFI	South of Building 132	G
640	II - 5.117	Fuel Oil Pier, Former Pier 322	Petroleum Products	NFI	Pier 336	G
641	II - 5.118	Stripper Pumphouse, Former Building 39-K	Acetone Methylene Chloride	CSI	Base of Building 336	G

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
642	II - 5.119	Former Pistol Range, Present Parking Lot	Lead Explosives	CSI Investigate w/SWMU 29 and 34	Parking Lot Building X-10	G
643	II - 5.120	Substation, Building 125	PCBs Petroleum Products	CSI	Building 125	G
644	II - 5.121	Substation, Building 1793	PCBs Petroleum Products Lead	NFI	Building 1793	G
645	II - 5.122	Transformer Vault, Building 3906S	PCBs	NFI	Chicora Tank Farm	G
646	II - 5.123	Operational Storage, Building 3906Q	Petroleum Products	CSI	Chicora Tank Farm	G
647	II - 5.124	Transformer Vault, Building 3906R	PCBs	NFI	Chicora Tank Farm	G
648	II - 5.125	Transformer Vault, West of Building 672	PCB Oils	CSI	West of Building 672	H
649	II - 5.126	Braswell Shipyards, Inc. Storage Area	Blast Media Welding Supplies	CSI	East of Building 672	H
650	II - 5.127	Metal Trades, Inc. Storage Area	Information not Available to Identify	CSI	East of Building 672	H
651	II - 5.128	Sandblasters, Inc. Storage Area	Information not Available to Identify	CSI	East of Building 672	H
652	I - 5.25	Paint Booth, Building 636	Marine Anti-Foulant Paint Thinner	NFI	Building 636	H
653	I - 5.26	Hobby Shop, Building 1508	Petroleum Products Automotive Paint Thinner	RFI	Building 1508	H
654	II - 5.129	Septic Tank and Drain Field 1718, Building 661	Solvents Petroleum Products	CSI Investigate W/SWMU 9	Building 661 Area	H
655	II - 5.130	Oil Spill Area, Building 656	Petroleum Products	RFI	Building 656	H

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
656	II - 5.131	Petroleum Spill Between Buildings 602 and NS-71	Petroleum Products	RFI	Between Buildings 602 and NS-71	H
657	II - 5.132	Engine Overhaul Facility, Building 645	Solvents Degreasers Petroleum Products Chlorofluorocarbons	NFI	Building 645	H
658	II - 5.133	Gas Storage, Building 203	Petroleum Products Flammable gases	NFI	East of Building 1303	H
659	II - 5.134	Diesel Storage, Building 14	Petroleum Products	CSI	Building 14	H
660	II - 5.135	Mosquito Control, Former Building 31	Pesticides	CSI	NW of Building NS-6 Area	H
661	II - 5.136	Former Explosives Storage	Explosives	CSI	South of Building 601	H
662	I - 5.27	Former Gasoline Station, Building NS-54	Petroleum Products	CSI	Building NS-54	H
663	II - 5.137	Gas/Diesel Pumping Station, Building 851	Petroleum Products	CSI	Building 851	H
664	II - 5.138	Transformer Vault (X-33A)	PCBs Petroleum Products	NFI	Building X33A	H
665	II - 5.139	Pyrotechnic Storage, Building 159	Pyrotechnic Explosives	CSI	Building 1889 and NS-46	H
666	II - 5.140	Fuel Storage, Building NS-45	Petroleum Products	CSI	By Osprey Street	H
667	I - 5.28	CBU-412 Vehicle Maintenance Area, Building 1776	Petroleum Products	RFI	CBU-412	H
668	II - 5.141	Hazardous Material Storage, Building 1899	Oxygen Acetylene Welding Supplies	NFI	Building 1899	H
669	II - 5.142	Indoor Pistol Range, Building 1888	Lead	NFI	Building 1888	H
670	II - 5.143	Former Skeet Range, South of Building 1897	Lead Brass Shell Casings	RFI Investigate w/SWMU 14	Field South of Building 1897	H

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
671	II - 5.144	Metering House, Former Building 3905G	Petroleum Products	CSI	North of Hobson	I
672	II - 5.145	Substation, Building 126	PCBs Petroleum Products	RFI	Building 126	I
673	II - 5.146	Paint and Oil Storehouse, Building 169	Paints Petroleum Products Solvents Metals	CSI	Building 169	I
674	II - 5.147	Paint Storage, Building RTC 4	Paint Petroleum Products Heavy Metals Solvents	NFI	Building RTC 4	I
675	II - 5.148	Fuel Oil Storage, Building NS-4	Petroleum Products	CSI	Along Thompson Ave.	I
676	II - 5.149	Former Incinerator, Building NS-2	Products of Incomplete Combustion	CSI Investigate w/AOC 677	Area of Building NS-2	I
677	I - 5.29	Grounds, Building NS-2	Petroleum Products	RFI	Building NS-2	I
678	II - 5.150	Fire Fighting School, Former Building 2-V	Petroleum Products	CSI	Building NS-1 Area	I
679	II - 5.151	Former Wash Rack	Paint Petroleum Products	CSI	Building NS-1 Area	I
680	II - 5.152	Brake Repair and Welding Area, NE Side of Building NS-26	Asbestos Waste	CSI	Building NS-26	I
681	I - 5.30	Abrasive Blast Booth, Building 681	Blast Residue	RFI	Building 681	I
682	I - 5.31	Spray Booth, Building 681	Paint Wastes Thinner	NFI	Building 681	I
683	II - 5.153	Transformer Vault	PCBs	NFI	Building 678 Area	I
684	II - 5.154	Former Outdoor Pistol Range, Building 1888	Lead	RFI Investigate w/SWMU 14	Building 1888	I

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
685	II - 5.155	Former Smoke Drum	Products of Incomplete Combustion	CSI	West of Juneau Ave.	I
686	II - 5.156	High Explosive Storage, Building X-54	Explosives Lead Petroleum Products	NFI	Building X-54	I
687	II - 5.157	Ammunition Storage, Building X-55	Explosives	CSI	Building X-55	I
688	II - 5.158	Ammunition Storage, Building X-56	Explosives	CSI	Building X-56	I
689	II - 5.159	Southern Tip of Base (Marina Parking Area)	Dioxins	RFI	Southern Tip of Base	I
690	II - 5.160	Dredged Materials Area Road	Solid Wastes	CSI	South End of Base	I
691	II - 5.161	Waterfront	Petroleum Products	RFI	Waterfront	J
692	II - 5.162	Free Product Along Cooper River	Petroleum Products	RFI	Waterfront	J
693	II - 5.163	Fuse and Primer House, Former Building 117	Petroleum Products Reactives	CSI	Clouter Creek Dredge Area	K
694	II - 5.164	Former Naval Ammunition Depot	Explosives Heavy Metals	CSI Investigate w/EOD Team	Clouter Creek Dredge Area	K
695	II - 5.165	Electric Locomotive Shed, Former Building 119	Solvents Degreasers	CSI	SW of Building 117	K
696	IV - 5.1	Transformer Area Near Building 2509, MOMAG 11	PCBs	CSI	Building 2509, MOMAG 11	K
697	IV - 5.2	Transformer Area Near Building 2554, MOMAG 11	PCBs	NFI	Building 2554, MOMAG 11	K
698	IV - 5.3	Boiler House, Building 2508, Marine Reserve Training Center, Naval Annex	Lead	RFI	Building 2508, Naval Annex	K
699	V - 5.1	Storm Sewer System	Industrial Wastes	RFI	Basewide	L

Table 1-2
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
700	V - 5.2	Golf Maintenance Building	Pesticides Petroleum Products	RFI	Building 1646	C
701	V - 5.3	Former McMillan Avenue Gas Station	Petroleum Products	CSI	Building 1141	E
702	V - 5.4	Paint Accumulation, Pier D	Paint Waste	CSI	Pier D	E
703	V - 5.5	Paint Accumulation, Pier F	Paint Waste	CSI	Pier F	E
704	V - 5.6	Paint Accumulation, Building 301B	Paint Waste	CSI	West of Building 301B	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
552	II - 5.42	Former Galvanizing Shop, Building 1030	Zinc Inorganic Acids	CSI	NE corner of Drydock #1	E
557	II - 5.46	Latrine, Former Building 1020	Organic Wastes Heavy Metals	CSI	South of Drydock #1	E
678	II - 5.150	Fire Fighting School, Former Building 2-V	Petroleum Products	CSI	Building NS-1 Area	I
679	II - 5.151	Former Wash Rack	Paint Petroleum Products	CSI	Building NS-1 Area	I
532	II - 5.25	Sump Collection Vats, Building 2	Preservatives	NFI	Building 2	E
535	II - 5.28	Latrine, Building 28	Organic Wastes Heavy Metals	NFI	East of Building 2	E
676	II - 5.149	Former Incinerator, Building NS-2	Products of Incomplete Combustion	CSI Investigate w/AOC 677	Area of Building NS-2	I
677	I - 5.29	Grounds, Building NS-2	Petroleum Products	RFI	Building NS-2	I
529	I - 5.8	Coating and Spray Systems, Building 2A	Aluminum Cleaning Solvents	NFI	Building 2A	E
527	II - 5.21	Transformer House, Building 24	PCBs Petroleum Products	NFI	Near Building 3	E
545	I - 5.11	Surface Coating Operations, Building 3	Epoxy, Activator	NFI	Building 3	E
600	II - 5.83	Coal and Oil Pier, Former Pier 318-L	Petroleum Products Coal By-Products	NFI	North of Drydock #3	E
603	II - 5.86	Burning Dump, Drydock #3 Area	Solid Wastes, Products of Incomplete Combustion	CSI	Drydock #3	E
605	II - 5.88	Waste Paint Storage Area, Pad 1278	Paint Petroleum Products Lead	RFI investigate w/SWMU 5	Drydock #4	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
674	II - 5.147	Paint Storage, Building RTC 4	Paint Petroleum Products Heavy Metals Solvents	NFI	Building RTC 4	I
547	II - 5.37	Fiberglass Shop, Building 5	Fiberglass Process Resins Miscellaneous	NFI	Building 5	E
548	II - 5.38	Hydraulic Elevator, Building 5	Hydraulic Oil	CSI	Building 5	E
549	II - 5.39	Scrap Yard 1054, Building 5	Heavy Metals	RFI	Building 5 Area	E
554	II - 5.44	Paint Shop, Former Building 1003	Lead Heavy Metals Acetone Xylenes Toluene	CSI	Between Buildings 5 and 44	E
565	II - 5.54	Coal Bin, Former Building 1006	Coal and Coal By-Products	NFI	North of Drydock #5	E
585	II - 5.70	Latrine and Officers Club Storage, Former Building 36	Organic Wastes Heavy Metals	NFI	East of Drydock #5	E
538	I - 5.9	Forge Shop, Building 6	Lead	RFI	Building 6	E
539	II - 5.31	Propeller Shop, Building 6	Zyglo	RFI Investigate w/AOC 538	Building 6	E
541	II - 5.33	Oil Storage Shop, Former Building 38	Petroleum Products	CSI	Between Buildings 6 and 226	E
660	II - 5.135	Mosquito Control, Former Building 31	Pesticides	CSI	NW of Building NS-6 Area	H
574	I - 5.15	Fuel Tank, Building 9	Petroleum	RFI	Building 9	E
580	II - 5.65	Former Pattern and Electric Shop, Building 10	Lead Zinc Solvents Degreasers	CSI	Building 10	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
642	II - 5.119	Former Pistol Range, Present Parking Lot	Lead Explosives	CSI Investigate w/SWMU 29 and 34	Parking Lot Building X-10	G
586	II - 5.71	Temporary Powerhouse, Building 1014	Coal	CSI	Adjacent to Building 11	E
659	II - 5.134	Diesel Storage, Building 14	Petroleum Products	CSI	Building 14	H
520	II - 5.16	Garbage House, Former Building M-1051	Solid Wastes	CSI	Adjacent to Building M-17	C
510	II - 5.7	Laboratory, Building NH-21	Methyl Ethyl Ketone Acetone Methylene Chloride Solvents	CSI	Building NH-21	C
587	II - 5.72	Former Aviation Gas Storage, Building 21	Petroleum Products Lead	NFI	Building 21	E
577	I - 5.16	Paint Booth, Building 25	Paint	NFI	Building 25	E
578	II - 5.63	Transportation Shop and Garage, Building 25	Petroleum Products Lead Solvents	RFI	Building 25	E
568	II - 5.57	Former Latrine, Building 26	Organic Wastes Heavy Metals	NFI	Building 26	E
680	II - 5.152	Brake Repair and Welding Area, NE Side of Building NS-26	Asbestos Waste	CSI	Building NS-26	I
569	II - 5.58	Gasoline Station and Oil Storage, Former Building 1279	Petroleum Products	RFI	Attached to SW Corner of Building 30	E
559	II - 5.48	Central Power Station, Building 32	Petroleum Products Combustion Products PCBs	RFI	Building 32	E
560	II - 5.49	Disinfector, Building 34	Infectious Wastes	CSI	South of Building 32	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
664	II - 5.138	Transformer Vault (X-33A)	PCBs Petroleum Products	NFI	Building X33A	H
530	II - 5.23	Paint and Oil Storage, Building 35	Paints Solvents Petroleum Products	CSI	Building 35	E
513	II - 5.10	Former Morgue	Formaldehyde Miscellaneous	CSI	SE of Building 45	C
662	I - 5.27	Former Gasoline Station, Building NS-54	Petroleum Products	CSI	Building NS-54	H
686	II - 5.156	High Explosive Storage, Building X-54	Explosives Lead Petroleum Products	NFI	Building X-54	I
519	II - 5.15	Former Boiler House 1081	Petroleum Products	CSI	East of Building NH-55	C
687	II - 5.157	Ammunition Storage, Building X-55	Explosives	CSI	Building X-55	I
546	II - 5.36	Galvanizing/Pickling Shop, Building 1025	Zinc Inorganic Acids	CSI	Between South End of Buildings 56 and 74	E
688	II - 5.158	Ammunition Storage, Building X-56	Explosives	CSI	Building X-56	I
528	II - 5.22	Steam Cleaning Shop	Grease Waste Oil Miscellaneous	CSI Investigate w/Sewer System	Building 59	E
534	II - 5.27	Latrine, Building 27	Organic Wastes Heavy Metals	NFI	Near Building 59	E
550	II - 5.40	Boiler House, Former Building 1111	Petroleum Products	CSI	SW of Building 62	E
620	II - 5.98	Battery Shop, Building 68	Paint Solvents Petroleum Products	RFI Investigate w/SWMU 36	Building 68	F

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
621	II - 5.99	Battery Cracking Area, Building 68	Lead Acids	RFI investigate w/SWMU 5	Building 68	F
628	II - 5.105	Sandblasting Area, Southeast Area of Building 68	Paint Blast Residue	CSI	SE of Building 68	G
616	II - 5.94	Paint Shop, Former Building 1201	Paints Heavy Metals	CSI	Building 69 Parking Lot	F
617	II - 5.95	Galvanizing Plant, Former Building 1176	Zinc Inorganic Acids	CSI	Building 69A	F
558	II - 5.47	Electrical Substation, Building 177	PCBs Petroleum Products	CSI	Building 77	E
590	II - 5.74	Alley, Buildings 1760 and 79	Acetone Petroleum Products Metals	CSI	Between Buildings 79 and 1760	E
564	II - 5.53	Oil/Water Separator, Building 80	Petroleum Products	CSI	North of Building 80	E
576	II - 5.62	Oil and Paint Storehouse/Print Office, Former Building 1012	Heavy Metals Paints Solvents	CSI	Building 80	E
562	II - 5.51	Substation, Building 84	PCBs Petroleum Products	CSI	Building 84	E
589	II - 5.73	Substation, Building 85	PCBs Petroleum Products	NFI	Building 85	E
597	II - 5.81	Substation, Building 91	PCBs Petroleum Products Lead	CSI	Building 91	E
612	II - 5.91	Substation, Building 94	PCBs Petroleum Products	NFI	Building 94	F

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
602	II - 5.85	Substation and Storage, Building 95	PCBs Petroleum Products	CSI	Building 95	E
604	II - 5.87	Substation and Storage, Building 96	PCBs Petroleum Products	CSI	Building 96	E
623	II - 5.101	Concrete Tank, Building 98	Petroleum Products	CSI Investigate w/AOC 626	Building 96	G
624	II - 5.102	Fuel Oil Booster Pumphouse, Building 98	Petroleum Products	RFI	Building 98	G
595	II - 5.79	Oil & Paint Storehouse, Former Building 1018	Petroleum Products Paints Heavy Metals Solvents	NFI	SW of Building 101	E
596	II - 5.80	Former Torpedo Storage, Building 101	Explosives Propellants Solvents/Degreasers	CSI	Building 101	E
695	II - 5.165	Electric Locomotive Shed, Former Building 119	Solvents Degreasers	CSI	SW of Building 117	K
632	II - 5.109	Substation, Building 124	PCBs Petroleum Products	NFI	Building 124	G
643	II - 5.120	Substation, Building 125	PCBs Petroleum Products	CSI	Building 125	G
672	II - 5.145	Substation, Building 126	PCBs Petroleum Products	RFI	Building 126	I
638	II - 5.115	Torpedo Workshop, Building 132	Explosives Propellants	CSI	Building 132	G
639	II - 5.116	Alcohol Storage	Alcohol	NFI	South of Building 132	G

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
636	II - 5.113	Torpedo Magazine, Building 161 Area	Explosives Propellants	CSI	Building 161	G
637	II - 5.114	Dump Area, Building 161 Area	Solid and Hazardous Wastes	CSI	Building 161 Area	G
673	II - 5.146	Paint and Oil Storehous ., Building 169	Paints Petroleum Products Solvents Metals	CSI	Building 169	I
563	II - 5.52	Locomotive House, Former Building 37	Solvents Degreasers	CSI	Building 177	E
571	I - 5.13	Paint Shop, Building 177	Marine Anti-Foulant Paint Thinner	RFI-Booth 33 NFI—Booths 31, 32, 34	Building 177	E
572	I - 5.14	Motor Area, Building 177	Petroleum Products	RFI	Building 177	E
573	II - 5.60	Anodizing Process, Building 177	Heavy Metals Acids Degreasers	CSI	Building 177	E
606	I - 5.19	Paint Booth, Building 187	Paint	NFI	Building 187	F
594	II - 5.78	Radcon Training & Offices, Building 190	Paint Petroleum Products	NFI	Building 190	E
517	II - 5.13	Indoor Firing Range, Building M-192	Lead	CSI	Building M-192	C
566	II - 5.55	Paint Shop Storage, Building 194	Marine Anti-Foulant Paint Wastes Thinner	CSI	Building 194	E
567	II - 5.56	Substation, Building 75	PCBs Petroleum Products Lead	CSI	East of Building 195	E
522	II - 5.18	Grease and Wash Building, Former Building 1252	Petroleum Products	CSI	SW of Building 198	C

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
523	II - 5.19	Gas Station Storage, Former Building M-1234	Petroleum Products	CSI	Building 198	C
526	I - 5.7	Paint Area, Building 212	Paint	RFI	Building 212	E
588	I - 5.17	Paint Booth, Building 218	Paint	NFI	Building 218	E
544	I - 5.10	Former Pickling Plant, Building 221	Lead	RFI	Building 221	E
525	I - 5.6	Paint Shop, Building 223	Paint	RFI—Booth 35 NFI—Booths 36, 37, 38, 63	Building 223	E
634	II - 5.111	Flammable Material Storage, Building 1814	Paint Flammable Material	CSI	SW of Building 224	G
540	II - 5.32	Building 226 Plating Plant (Formerly Building 73 Battery Charging)	Heavy Metals	CSI	Building 226	E
542	II - 5.34	Old Oxy-Acetylene Plant and Paint Shop, Building 226	Acetylene gas Paints Possible Solvents	CSI	Building 226 Area	E
543	II - 5.35	Former Building 1026; Building 226 Plating Plant	Zinc Inorganic Acids	CSI	Building 226	E
515	II - 5.12	Incinerator and Paint Shop 51, Building 233 Area	Paints Solvents	CSI	Building 233	C
516	I - 5.5	Wash Area, Building 233	Acid Petroleum Products	RFI	Building 233	C
581	II - 5.66	Substation and Radio Lab, Building 20	PCBs	NFI	NE of Building 236	E
583	II - 5.68	Northeast Corner of Building 236	Freon Petroleum Products	RFI	Northeast Corner of Building 236	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
610	I - 5.22	Paint Booth, Building 241	Marine Anti-Foulant Paint Thinner	NFI	Building 241	F
613	II - 5.92	Old Locomotive Repair Shop, Former Building 1169	Petroleum Products Solvents	RFI	Building 242	F
614	I - 5.23	Paint Booth, Building 242	Paint	NFI	Building 242	F
615	II - 5.93	Old Chain Locker, Building 1391	Epoxies Resins	CSI	Building 255	F
704	V - 5.6	Paint Accumulation, Building 301B	Paint Waste	CSI	West of Building-301B	E
551	II - 5.41	Boilerhouse, Building 1119	Coal By-Products	CSI	Pier 314	E
601	II - 5.84	Oil Pier, Former Pier 319	Petroleum Products	NFI	South of Pier 317-F	E
640	II - 5.117	Fuel Oil Pier, Former Pier 322	Petroleum Products	NFI	Pier 336	G
641	II - 5.118	Stripper Pumphouse, Former Building 39-K	Acetone Methylene Chloride	CSI	Base of Building 336	G
537	II - 5.30	Substation, Building 342	PCBs Petroleum Products	CSI	Building 342	E
667	I - 5.28	CBU-412 Vehicle Maintenance Area, Building 1776	Petroleum Products	RFI	CBU-412	H
524	II - 5.20	Substation, Building 415A	PCBs	NFI	Building 415A	D
584	II - 5.69	Substation, Building 451H	PCBs Petroleum Products	NFI	Building 451H	E
633	II - 5.110	Substation, Building 451C	PCBs Petroleum Products	CSI	Building 451C	G
575	II - 5.61	Substation, Building 454	PCBs Petroleum Products Lead	CSI	Building 454	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
582	II - 5.67	Substation, Building 455	PCBs Petroleum Products	NFI	Building 455	E
531	II - 5.24	Substation and Storage, Building 459	PCBs Petroleum Products	CSI	Building 459	E
533	II - 5.26	Substation, Building 460	PCBs Petroleum Products Lead	NFI	Building 460	E
536	II - 5.29	Substation, Building 460	PCBs Petroleum Products Lead	NFI	Building 460	E
618	II - 5.96	Switching Substation, Building 466	PCBs Petroleum Products	NFI	Building 466	F
661	II - 5.136	Former Explosives Storage	Explosives	CSI	South of Building 601	H
656	II - 5.131	Petroleum Spill Between Buildings 602 and NS-71	Petroleum Products	RFI	Between Buildings 602 and NS-71	H
652	I - 5.25	Paint Booth, Building 636	Marine Anti-Foulant Paint Thinner	NFI	Building 636	H
657	II - 5.132	Engine Overhaul Facility, Building 645	Solvents Degreasers Petroleum Products Chlorofluorocarbons	NFI	Building 645	H
655	II - 5.130	Oil Spill Area, Building 656	Petroleum Products	RFI	Building 656	H
654	II - 5.129	Septic Tank and Drain Field 1718, Building 661	Solvents Petroleum Products	CSI Investigate W/SWMU 9	Building 661 Area	H

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
503	I - 5.4	UXO Site South of Building 665	2 Mark 17 Depth Bombs	CSI Investigate w/EOD Team	South of Building 665	H
648	II - 5.125	Transformer Vault, West of Building 672	PCB Oils	CSI	West of Building 672	H
649	II - 5.126	Braswell Shipyards, Inc. Storage Area	Blast Media Welding Supplies	CSI	East of Building 672	H
650	II - 5.127	Metal Trades, Inc. Storage Area	Information not Available to Identify	CSI	East of Building 672	H
651	II - 5.128	Sandblasters, Inc. Storage Area	Information not Available to Identify	CSI	East of Building 672	H
683	II - 5.153	Transformer Vault	PCBs	NFI	Building 678 Area	I
681	I - 5.30	Abrasive Blast Booth, Building 681	Blast Residue	RFI	Building 681	I
682	I - 5.31	Spray Booth, Building 681	Paint Wastes Thinner	NFI	Building 681	I
511	II - 5.8	Oil House, Former Building 16	Petroleum Products	CSI	North of Building 762	C
663	II - 5.137	Gas/Diesel Pumping Station, Building 851	Petroleum Products	CSI	Building 851	H
579	II - 5.64	Former Paint Shop, Building 1035	Paints Heavy Metals	CSI	Building 1035	E
509	II - 5.6	Hazardous/Flammable Storage, Building 1079	Ignitable Materials	NFI	Building 1079	C
512	II - 5.9	Former Incinerator 67	Petroleum Products Metals Combustion Products	CSI	Building 1079	C
555	II - 5.45	Latrine and Substation, Former Building 29	Organic Wastes Heavy Metals PCBs	CSI	SE side of Building 1119	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
701	V - 5.3	Former McMillan Avenue Gas Station	Petroleum Products	CSI	Building 1141	E
607	I - 5.20	Dry Cleaning, Building 1189	Perchloroethylene	RFI	Building 1189	F
570	II - 5.59	Former Coal Storage Area	Coal By-Products	RFI Investigate w/AOC 578	Building 1199 Area	E
518	II - 5.14	Coal Storage Bins, Area of Building M-1257	Coal and Coal By-Products	CSI	Adjacent to Building M-1257	C
521	II - 5.17	Oil Storehouse 1052, Facility M-1262	Petroleum Products	NFI	Building M-1262	C
608	II - 5.89	Naval Exchange Storage Shed, Building 1263	Petroleum Products	NFI	Building 1263	F
658	II - 5.133	Gas Storage, Building 203	Petroleum Products Flammable gases	NFI	East of Building 1303	H
609	I - 5.21	Service Station, Building 1346	Ethylene Glycol Petroleum Products	RFI	Building 1346	F
507	II - 5.4	Oil Storehouse, Former Building 1010	Petroleum Products	CSI	Golf Course Area (1410)	B
653	I - 5.26	Hobby Shop, Building 1508	Petroleum Products Automotive Paint Thinner	RFI	Building 1508	H
506	II - 5.3	Flammable Storage Shelter, Building 1629	Ignitable Materials	CSI	Building 1629	A
700	V - 5.2	Golf Maintenance Building	Pesticides Petroleum Products	RFI	Building 1646	C
592	II - 5.76	Asbestos Shredding Shelter, Former Building 1225	Asbestos Waste	CSI	South of Building 1760	E

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
644	II - 5.121	Substation, Building 1793	PCBs Petroleum Products Lead	NFI	Building 1793	G
505	II - 5.2	Creosote Cross-Tie/Ballast Storage Area and Golf Course Maintenance Building	Creosote and Degradation Products	RFI	Area of Building 1803	A
514	II - 5.11	Flammable Storage, Building 1813	Paint Adhesive Petroleum Products	NFI	Building 1813	C
619	II - 5.97	Former Oil Storage Yard	Petroleum Products	CSI	Area of Buildings 1824, 1836, 316, 381	F
669	II - 5.142	Indoor Pistol Range, Building 1888	Lead	NFI	Building 1888	H
684	II - 5.154	Former Outdoor Pistol Range, Building 1888	Lead	RFI Investigate w/SWMU 14	Building 1888	I
665	II - 5.139	Pyrotechnic Storage, Building 159	Pyrotechnic Explosives	CSI	Building 1889 and NS-46	H
670	II - 5.143	Former Skeet Range, South of Building 1897	Lead Brass Shell Casings	RFI Investigate w/SWMU 14	Field South of Building 1897	H
668	II - 5.141	Hazardous Material Storage, Building 1899	Oxygen Acetylene Welding Supplies	NFI	Building 1899	H
698	IV - 5.3	Boiler House, Building 2508, Marine Reserve Training Center, Naval Annex	Lead	RFI	Building 2508, Naval Annex	K
696	IV - 5.1	Transformer Area Near Building 2509, MOMAG 11	PCBs	CSI	Building 2509, MOMAG 11	K
697	IV - 5.2	Transformer Area Near Building 2554, MOMAG 11	PCBs	NFI	Building 2554, MOMAG 11	K
625	II - 5.103	Sludge Pumphouse, Building 3901B	Petroleum Products	CSI	Building 3901B	G

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
635	II - 5.112	Paint and Oil Storehouse, Building 3902	PCBs Paints Petroleum Products Solvents Metals	RFI Investigate w/SWMU 6 and 7	Building 3902	G
629	II - 5.106	Tank Truck/Car Loading/Unloading Facility	Petroleum Products Waste Oil	CSI Investigate w/AOC 626	Building 3913	G
630	II - 5.107	POL Sampling/Test Building, Building 3914	Petroleum Products	NFI	Building 3913	G
702	V - 5.4	Paint Accumulation, Pier D	Paint Waste	CSI	Pier D	E
703	V - 5.5	Paint Accumulation, Pier F	Paint Waste	CSI	Pier F	E
502	I - 5.3	UXO Site Between Piers G and H	Three 5-inch Unexploded Shells at About 40 Feet Below MWL	CSI Investigate w/EOD Team	Between Piers G and H	J
598	II - 5.82	Sonar Dome Area, End of Pier J	Blast Residue Marine Anti-Foulant Paint	RFI	End of Pier J	E
599	I - 5.18	Pump House, Pier J	Diesel Fuel	CSI	Pier J	E
631	II - 5.108	Fueling Pier Kilo (K)	Petroleum Products	RFI	Pier K	G
500	I - 5.1	UXO Site Between Pier S and T	2 Mark 47 TORPEX Loaded Depth Bombs	CSI Investigate w/EOD Team	Between Piers S and T	J
501	I - 5.2	UXO Site in Cooper River East of Buildings X-54 and X-55	2 Mark 47 TORPEX Loaded Depth Bombs	CSI Investigate w/EOD Team	Cooper River	J

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
504	II - 5.1	Railroad System	Petroleum Products Batteries Lead Acids Coal	RFI	Basewide	L
508	II - 5.5	Former Incinerator 19	Petroleum Products Metals Polynuclear Aromatic Hydrocarbons	CSI	Between St. Johns and Avenue H	C
556	I - 5.12	Drydock Discharges	Paint Wastes Blast Residue Waste Oils	RFI	Drydocks	E
561	II - 5.50	Substation, Building 451B	PCBs Petroleum Products	RFI	Along Carolina Avenue	E
611	II - 5.90	Grease Rack and Hobby Shop, Building 1264	Petroleum Products Solvents Degreasers Lead	CSI	Ninth Street and Enterprise Avenue	F
622	II - 5.100	Ballast Water Treatment Facility, Facility 3926	Petroleum Oils Metals	CSI Investigate w/AOC 626	NSC Fuel Farm	G
626	I - 5.24	Charleston Naval Supply Center Fuel Farm	Petroleum Products Waste Oil	RFI	Fuel Farm Area	G
627	II - 5.104	Oil Spill Area at Hobson Avenue and Viaduct Road	Petroleum Products	RFI	Hobson and Viaduct Roads	G
645	II - 5.122	Transformer Vault, Building 3906S	PCBs	NFI	Chicora Tank Farm	G
646	II - 5.123	Operational Storage, Building 3906Q	Petroleum Products	CSI	Chicora Tank Farm	G
647	II - 5.124	Transformer Vault, Building 3906R	PCBs	NFI	Chicora Tank Farm	G

Table 1-2A
Area of Concern Summary
Naval Base Charleston

AOC Number	RFA Vol-Sec Number	AOC Name	Materials Released, Stored, or Disposed	Investigative Approach	Location	RFI Study Zone
666	II - 5.140	Fuel Storage, Building NS-45	Petroleum Products	CSI	By Osprey Street	H
671	II - 5.144	Metering House, Former Building 3905G	Petroleum Products	CSI	North of Hobson	I
675	II - 5.148	Fuel Oil Storage, Building NS-4	Petroleum Products	CSI	Along Thompson Ave.	I
685	II - 5.155	Former Smoke Drum	Products of Incomplete Combustion	CSI	West of Juneau Ave.	I
689	II - 5.159	Southern Tip of Base (Marina Parking Area)	Dioxins	RFI	Southern Tip of Base	I
690	II - 5.160	Dredged Materials Area Road	Solid Wastes	CSI	South End of Base	I
691	II - 5.161	Waterfront	Petroleum Products	RFI	Waterfront	J
692	II - 5.162	Free Product Along Cooper River	Petroleum Products	RFI	Waterfront	J
693	II - 5.163	Fuse and Primer House, Former Building 117	Petroleum Products Reactives	CSI	Clouter Creek Dredge Area	K
694	II - 5.164	Former Naval Ammunition Depot	Explosives Heavy Metals	CSI Investigate w/EOD Team	Clouter Creek Dredge Area	K
699	V - 5.1	Storm Sewer System	Industrial Wastes	RFI	Basewide	L
553	Not Included in this Document	Reserved	—	—	—	E
591	Not Included in this Document	Reserved	—	—	—	E
593	Not Included in this Document	Reserved	—	—	—	E

2.0 DESCRIPTION OF FACILITY OPERATIONS AND WASTE GENERATION

2.1 Naval Base Charleston

A description of the facility operations and waste generation information for Naval Base Charleston can be found in the RCRA Facility Assessment dated August 1987. The 1987 RFA was produced by EBASCO Services, Inc. under USEPA contract.

2.2 Naval Short Stay

2.2.1 Facility Description

The Naval Short Stay, referred to as the Short Stay, is a noncontiguous portion of Naval Base Charleston located in Berkeley County, South Carolina. The Short Stay is a recreational facility, that has been operated by the Navy for approximately 20 years, for use by Naval Station components and dependents. It is located on the southeast side of Lake Moultrie, northeast of Moncks Corner. The facility is comprised of 56.6 acres which is leased from the South Carolina Public Service Authority. There is also a 100 foot right-of-way easement for entrance to the facility. The facility has a number of cabins, playgrounds, camp-sites, and associated areas for outdoor and water recreation.

2.2.2 Industrial Operations and Waste Generation

There are no industrial operations conducted at the facility.

2.2.3 Wastewater Treatment

Onsite Treatment

There is a municipal wastewater treatment plant that discharges to Lake Moultrie under an NPDES permit. The wastewater treatment plant has a 30,000 gallon per day capacity, but on average only treats 2,000 gallons per day.

Storm Water Drainage

All storm water runoff from the Naval Short Stay drains back into Lake Moultrie, no storm water collection system is present at the facility.

3.0 ENVIRONMENTAL SETTING

3.1 Naval Base Charleston

A description of environmental setting information for Naval Base Charleston can be found in the RCRA Facility Assessment dated August 1987. The 1987 RFA was produced by EBASCO Services, Inc. under USEPA contract.

3.2 Naval Short Stay

3.2.1 Regional Geology

Physiography

The Naval Short Stay, referred to as the Short Stay, is a noncontiguous portion of Naval Base Charleston located in Berkeley County, South Carolina. Topography in the area is typical of the South Carolina lower coastal plain, having low relief plains broken only by the meandering courses of sluggish streams and rivers which flow toward the coast past occasional marine terrace escarpments. The Short Stay is not within the 100-year flood zone.

Stratigraphy and Structure

The geology of this area is typical of the southern part of the Atlantic Coastal Plain. A seaward-thickening wedge of Cretaceous and younger sediments is underlain by older igneous and metamorphic rock.

The sedimentary formations of the Coastal Plain consist of Upper Cretaceous, Tertiary, and Pleistocene sediments that strike in a general northeast-southwest direction and dip from 12 to 30 feet per mile in a south-southeasterly direction.

The uppermost surficial deposits in the Charleston area are composed of interbedded sand, shells, silt, and clay that are approximately 15 to 80 feet thick. Cretaceous and younger sediments thicken seaward and are underlain by older igneous and metamorphic rock. Surface

exposures at the Naval Annex consist of recent and/or Pleistocene sands, silts, and clays of high organic content.

3.2.2 Regional Hydrology

The Short Stay is located on the banks of Lake Moultrie, which discharges to the Cooper River. There is little or no tidal influence to the Cooper River in this area.

3.2.3 Climatology

The climate in the Lake Moultrie area is temperate with warm summers, mild winters, and ample precipitation. The weather is largely controlled by the west to east motion of pressure systems and fronts, except in the summer when tropical air persists. The mountains in the northern portion of the state serve as a barrier to cold air masses from the northwest, and the Bermuda high pressure system limits the progress of cold fronts into the area. These conditions produce relatively mild temperate winters. Summers are hot and humid, but relatively moderate with regard to temperature extremes, largely due to the influence of the Gulf Stream.

Temperatures

The average daily maximum and minimum temperatures in this area are 24.3 and 12.4 °C. Temperatures higher than 38 °C and lower than - 6.5 °C are unusual for the area.

Winds

The Lake Moultrie area are subjected to a southwest to northeast wind regime. The prevailing winds are northerly in the fall and winter, and southerly in the spring and summer. The monthly average wind velocities for the area range from a low of 12.1 kph in May to a high of 16.7 kph in March.

Rainfall

The area receives an annual average precipitation of 125 cm which is almost exclusively rainfall. Very little precipitation is recorded as snow, sleet, or hail. The greatest mean monthly precipitation is normally received in July while the smallest amount normally occurs in November.

Humidity

Relative humidity in the Lake Moultrie area ranges from 50 to 90% and can exhibit large fluctuations. It is generally higher during the summer months.

Climate Extremes

The primary concern with regard to climate extremes are the occurrence of tropical cyclones or hurricanes. Hurricanes frequent the east coast of the United States, and almost always have some effect on the weather around the area between August and December. The last hurricane to make landfall in the area was Hurricane Hugo, a class IV hurricane which struck Charleston in September 1989 and caused severe damage. Tornados are extremely rare in the general vicinity but have occurred.

3.2.5 Land Use in the Vicinity of the Facility

The areas surrounding the Short Stay are undeveloped land, recreational land, and rural housing.

3.2.6 Environmental Monitoring

No environmental monitoring has been performed on the property currently designated as the Naval Short Stay. Media potentially subject to future environmental monitoring include air, surface water, sediment, soil, soil gas, and groundwater.

4.0 SOLID WASTE MANAGEMENT UNITS

4.1 SWMU #181 — Satellite Accumulation Area, Metal Trades, CNSY Permit #99

4.1.1 Unit Characteristics

SWMU #181 consists of an SAA located on Pier C; the unit is an element of the CNSY hazardous waste management system. Hazardous wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. This SAA is approximately an 8' x 8' x 8' metal structure; the unit was permitted on June 29, 1994 and has been in operation since that time. SWMU #181 is located at map coordinates M-41 on Figure 4-B. The SWMU location is shown in Figure 4-1.

4.1.2 Waste Characteristics

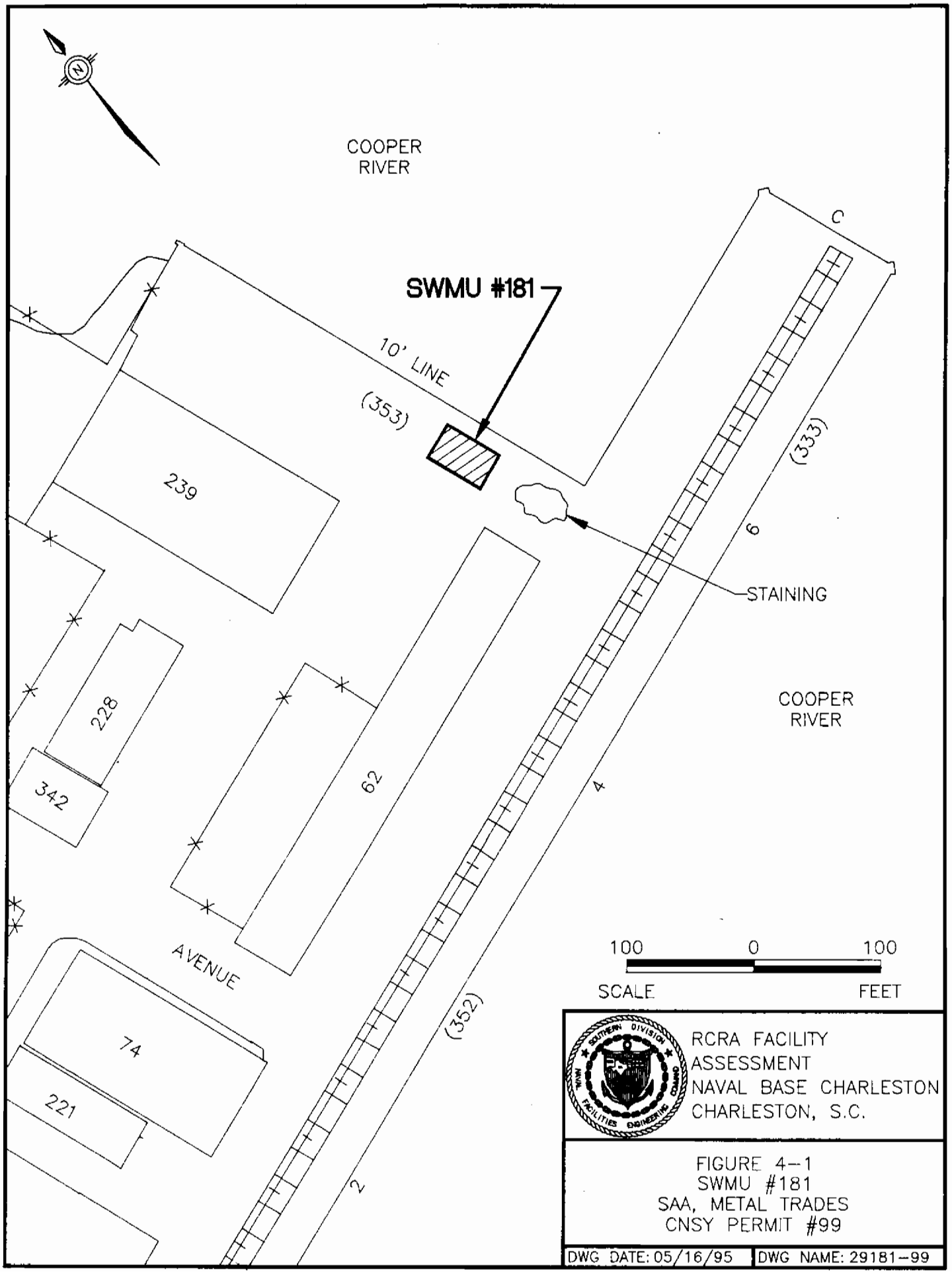
Waste materials accumulated within this unit include paint cans and rags. The constituents of concern include VOCs, metals, and petroleum hydrocarbons.

4.1.3 Migration Pathways

Due to the proximity of the Cooper River and the mobility of the volatile constituents, surface water and air are both potential pathways of this unit. Soil, groundwater, and subsurface gas are also potential migration pathways. However, these media are less likely to be contaminated during a release due to the presence of the asphalt surface beneath the SAA.

4.1.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. Some staining was noted on the metal floor of the SAA, however, it appeared to be contained within the SAA. Several large stains were noted on the asphalt surface approximately 20 feet southeast of the unit.


COOPER
RIVER
SWMU #181
10' LINE
(353)
239
C
(333)
6
STAINING
COOPER
RIVER
228
342
62
4
AVENUE
74
221
(352)
2
100
0
100
SCALE
FEET
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-1
SWMU #181
SAA, METAL TRADES
CNSY PERMIT #99
DWG DATE: 05/16/95
DWG NAME: 29181-99

4.1.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through surface water runoff. No residential areas are in the vicinity of this SAA. Due to the use of proper storage practices exposure potential is limited to Naval Base Charleston personnel and future users of the site.

4.1.6 Recommended Action

A CSI of this SAA is recommended due to the staining near the site and the proximity to the Cooper River.

4.2 SWMU #182 — Satellite Accumulation Area, Ships Forces, CNSY Permit #102

4.2.1 Unit Characteristics

SWMU #182 consists of an SAA located on Pier C; the unit is an element of the CNSY hazardous waste management system. Hazardous wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. This SAA is approximately an 10' x 8' tarpaulin structure with a wooden roof; the unit was permitted on July 27, 1994 and has been in operation since that time. SWMU #182 is located at map coordinates L-41 on Figure 4-B. The SWMU location is shown in Figure 4-2.

4.2.2 Waste Characteristics

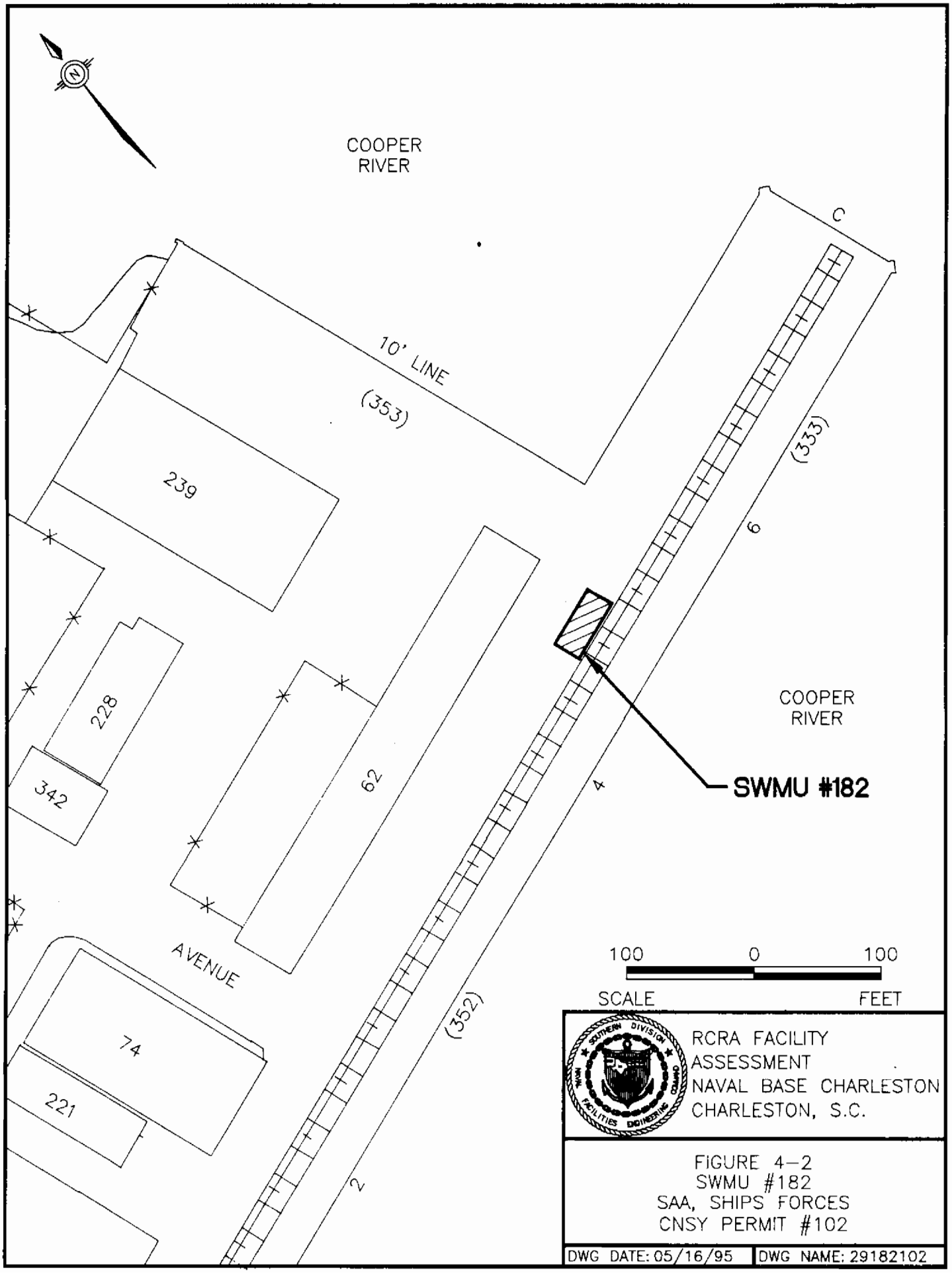
Waste materials accumulated within this unit include batteries and oily rags. The constituents of concern include metals and petroleum hydrocarbons.

4.2.3 Migration Pathways

Due to the proximity of the Cooper River and the mobility of the volatile constituents, surface water and air are both potential pathways of this unit. Soil, groundwater, and subsurface gas are also potential migration pathways. However, these media are less likely to be contaminated during a release due to the presence of the asphalt surface beneath the SAA.

4.2.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. Some minor staining immediately north of the SAA was observed during the visual site inspection.


COOPER RIVER
C
10' LINE
(353)
239
(333)
6
228
342
62
4
COOPER RIVER
SWMU #182
AVENUE
100 0 100
SCALE FEET
74
221
(352)
2
RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-2
SWMU #182
SAA, SHIPS FORCES
CNSY PERMIT #102
DWG DATE: 05/16/95
DWG NAME: 29182102

4.2.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through surface water runoff. No residential areas are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel and future users of the site.

4.2.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.3 SWMU #183 — Less-Than-90-Day Accumulation Area, Building 79A, CNSY Permit #89

4.3.1 Unit Characteristics

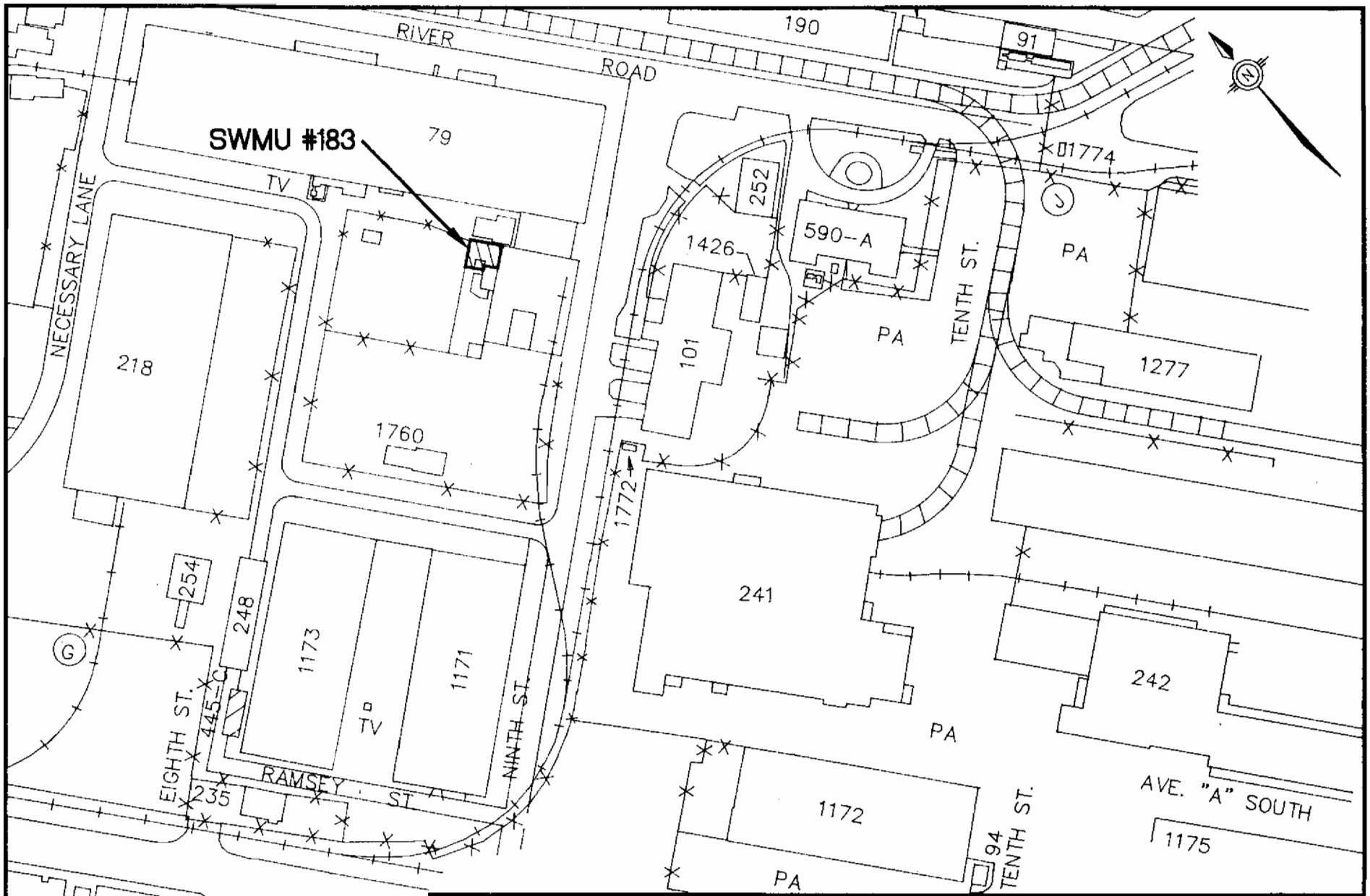
SWMU #183 consists of a less-than-90-day AA located in the North Bay of Building 79A; the unit is an element of the CNSY hazardous waste management system. Hazardous and/or mixed wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. Mixed wastes are transferred to Building 246 for storage pending offsite disposal per the Federal Facility Compliance Act. This area is used for radiological waste from the radiological AAs. This AA is approximately a 30' x 30' area; the unit was permitted on June 28, 1994 and has been operating since that time. Wastes are stored in 55-gallon drums lined with 12 mil polyethylene and stored on an epoxy sealed concrete floor. SWMU #183 is located at map coordinates J-35 on Figure 4-B. The SWMU location is shown in Figure 4-3.

4.3.2 Waste Characteristics

Waste materials accumulated within this unit include alcohol and metals. The constituents of concern include alcohols and metals.

4.3.3 Migration Pathways

Soil, groundwater, surface water, and subsurface gas are unlikely pathways because of the containment provided by the building and the epoxy sealed concrete floor. Visual inspection of the floor revealed no cracking or deterioration in the vicinity of the SAA. The potential for migration by the air pathway exists for this SWMU due to the presence of volatile materials.



RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-3
SWMU #183
LESS THAN 90 DAY ACCUMULATION AREA
BUILDING 79A, CNSY PERMIT #89

DWG DATE: 06/05/95 | DWG NAME: 76SM183

4.3.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.

4.3.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.3.6 Recommended Action

NFI of this AA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways. This AA will be undergoing a RCRA closure as per Consent Order 94-15-HW, signed on May 9, 1994.

4.4 SWMU #184 — Satellite Accumulation Area, Building 79A, CNSY Permit #106

4.4.1 Unit Characteristics

SWMU #184 consists of an SAA located in the High Bay of Building 79A; the unit is an element of the CNSY hazardous waste management system. Hazardous and/or mixed wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. Mixed wastes are transferred to the less-than-90-day AA in the North Bay of Building 79A for radiological processing. This SAA is a 3' x 7' area; the unit was permitted on September 21, 1994 and has been operating since that time. Wastes are stored in 55-gallon drums lined with 12 mil polyethylene and stored on an epoxy sealed concrete floor. SWMU #184 is located at map coordinates J-35 on Figure 4-B. The SWMU location is shown in Figure 4-4.

4.4.2 Waste Characteristics

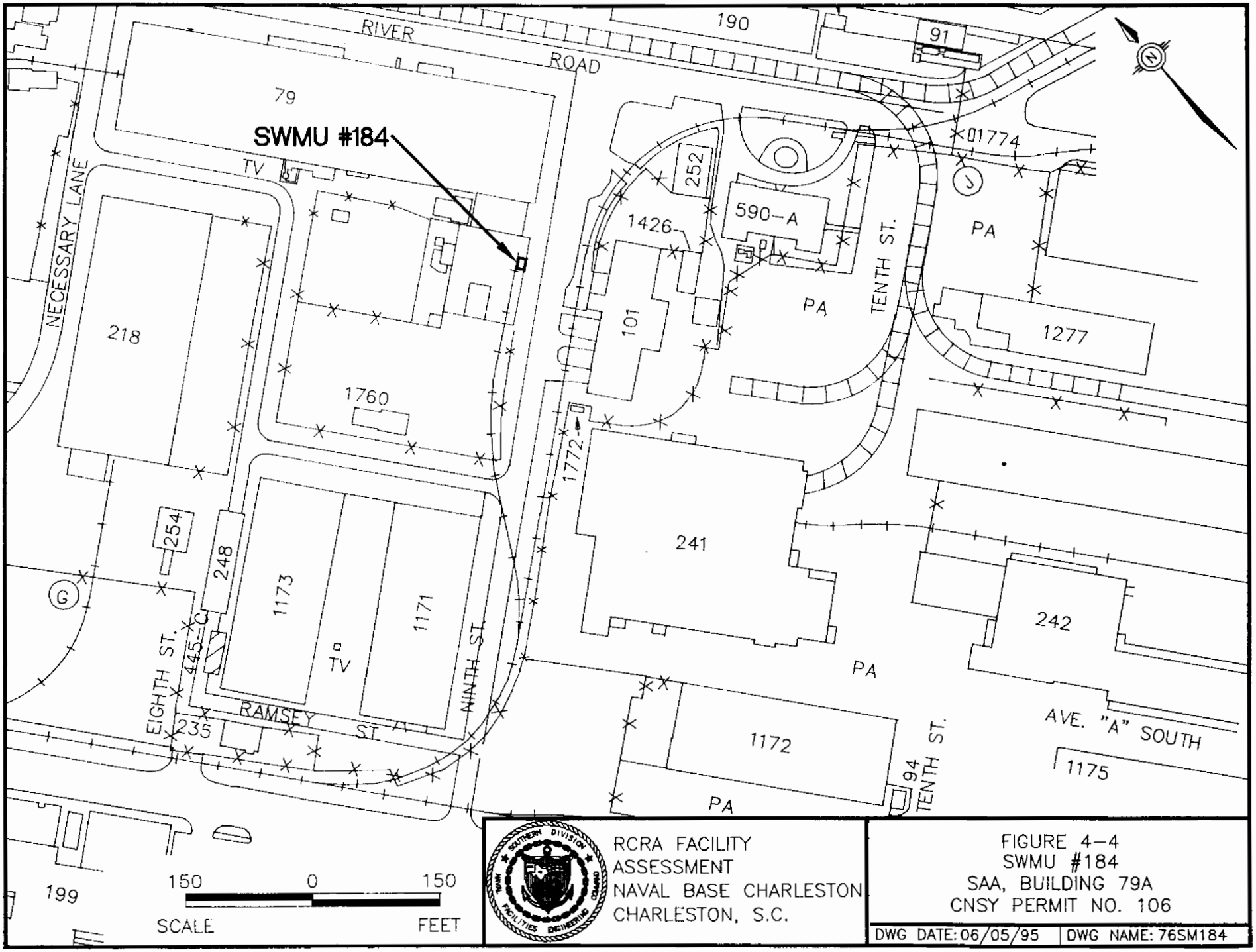
Waste materials accumulated within this unit include brass and bronze. The constituents of concern are metals.

4.4.3 Migration Pathways

Soil, groundwater, surface water, and subsurface gas are unlikely pathways because of the containment provided by the building and the epoxy sealed concrete floor. Visual inspection of the floor revealed no cracking or deterioration in the vicinity of the SAA. Migration by the air pathway is not likely since the wastes are solid and non-volatile.

4.4.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.


SWMU #184
RIVER ROAD
NECESSARY LANE
EIGHTH ST.
RAMSEY ST.
NINTH ST.
TENTH ST.
AVE. "A" SOUTH
79
190
91
01774
252
1426
590-A
PA
101
1277
218
1760
1772
241
242
254
248
1173
1171
TV
445-C
235
1172
94
1175
199
150 0 150
SCALE FEET
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-4
SWMU #184
SAA, BUILDING 79A
CNSY PERMIT NO. 106
DWG DATE: 06/05/95
DWG NAME: 76SM184

4.4.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.4.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.5 SWMU #186 — Satellite Accumulation Area, Building 58, CNSY Permit #105

4.5.1 Unit Characteristics

SWMU #186 consists of an SAA located behind building 58; the unit is an element of the CNSY hazardous waste management system. Hazardous wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. This SAA is approximately a 5' x 5' tarpaulin structure; the unit was permitted on November 3, 1994 and has been in operation since that time. At the time of visual inspection no wastes had been stored in the unit. One empty 55-gallon drum was located in this area. SWMU #186 is located at map coordinates F-43 on Figure 4-A. The SWMU location is shown in Figure 4-5.

4.5.2 Waste Characteristics

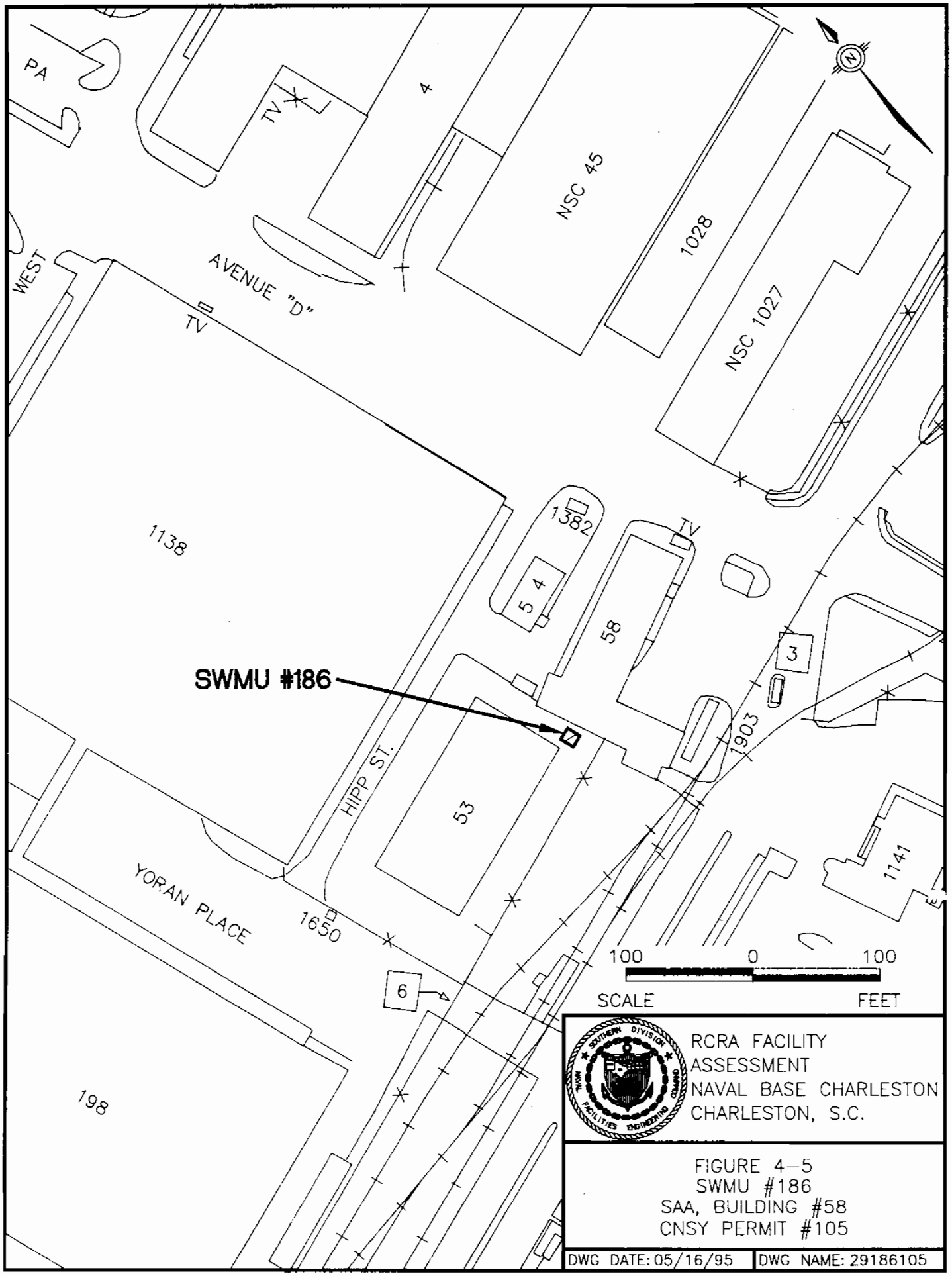
Waste paint chips are expected to be collected in this area. At the time of the visual site inspection no waste had been accumulated. The constituents of concern include metals and VOCs.

4.5.3 Migration Pathways

Soil, groundwater, surface water, sediment, and subsurface gas are all potential pathways because of the gravel surface beneath the SAA and inadequate containment provided by the sandbag berm. If volatile compounds are stored in the unit air would also be a potential migration pathway.

4.5.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.


PA
TV
4
NSC 45
1028
NSC 1027
WEST
AVENUE "D"
TV
1138
1382
5 4
TV
58
3
SWMU #186
1903
HIPP ST.
53
1141
YORAN PLACE
1650
6
198
100
0
100
SCALE
FEET
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-5
SWMU #186
SAA, BUILDING #58
CNSY PERMIT #105
DWG DATE: 05/16/95
DWG NAME: 29186105

4.5.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.5.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and because no waste has been accumulated in this area.

4.6 SWMU #187 — Satellite Accumulation Area, Paint Waste, CNSY Permit #101

4.6.1 Unit Characteristics

SWMU #187 consists of an SAA located on the head of Dry Dock #5 on the north side; the unit is an element of the CNSY hazardous waste management system. Hazardous wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. This SAA is approximately an 10' x 8' tarpaulin structure; the unit was permitted on July 15, 1994 and has been operating since that time. Wastes are stored in 55-gallon drums. Two drums were being stored in the unit at the time of the visual inspection. SWMU #187 is located at map coordinates K-38 on Figure 4-B. The SWMU location is shown in Figure 4-6.

4.6.2 Waste Characteristics

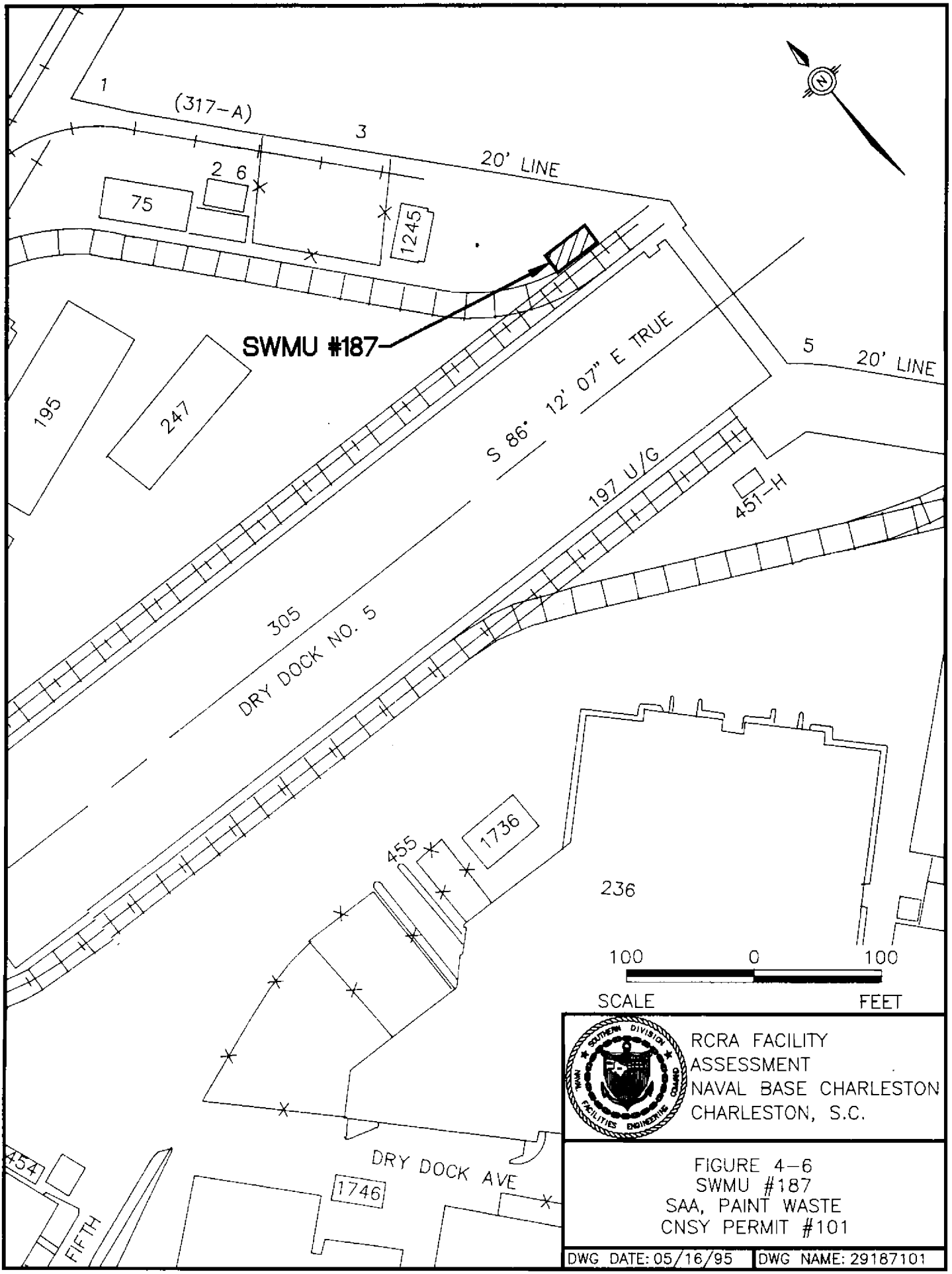
Waste materials accumulated within this unit include solvents, oily rags, waste paint, and polymers. The constituents of concern include VOCs, metals, and petroleum hydrocarbons.

4.6.3 Migration Pathways

Due to the proximity of the Cooper River and the mobility of the volatile constituents, surface water and air are both potential pathways of this unit. Soil, groundwater, and subsurface gas are also potential migration pathways. However, these media are less likely to be contaminated during a release due to the presence of the asphalt surface beneath the SAA.

4.6.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.



RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-6
SWMU #187
SAA, PAINT WASTE
CNSY PERMIT #101

DWG DATE: 05/16/95 | DWG NAME: 29187101

4.6.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through surface water runoff. No residential areas are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel and future users of the site.

4.6.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.7 SWMU #188 — Satellite Accumulation Area, Paint Waste, CNSY Permit #103

4.7.1 Unit Characteristics

SWMU #188 consists of an SAA located on the south side of Dry Dock #5; the unit is an element of the CNSY hazardous waste management system. Hazardous wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. This SAA is approximately an 8' x 6' x 6' metal storage structure; the unit was permitted on September 6, 1994 and has been operating since that time. Wastes are stored on a 4' x 2' meatal drip pan. SWMU #188 is located at map coordinates J-38 on Figure 4-B. The SWMU location is shown in Figure 4-7.

4.7.2 Waste Characteristics

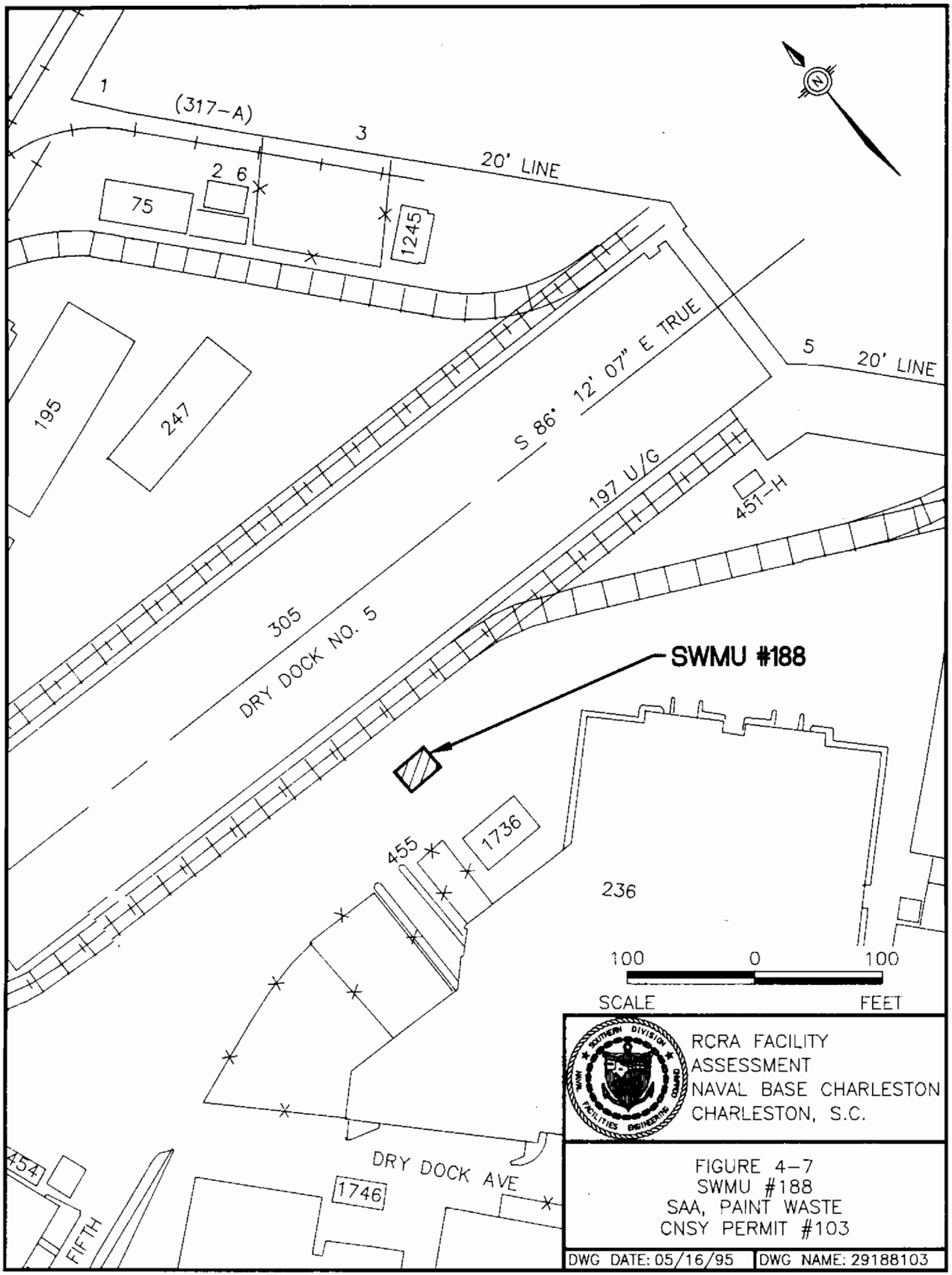
Waste materials accumulated within this unit include waste paint and solvents. The constituents of concern include metals and VOCs.

4.7.3 Migration Pathways

Due to the proximity of the Cooper River and the mobility of the volatile constituents, surface water and air are both potential pathways of this unit. Soil, groundwater, and subsurface gas are also potential migration pathways. However, these media are less likely to be contaminated during a release due to the presence of the asphalt surface beneath the SAA.

4.7.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. During the visual site inspection several areas of concern were observed: first, an odor was noticed coming from SAA; second the inside of the SAA was not well maintained; and third staining was observed inside the SAA and outside on the asphalt surface.


1
(317-A)
3
20' LINE
2 6
75
1245
195
247
S 86° 12' 07" E TRUE
5
20' LINE
197 U/G
451-H
305
DRY DOCK NO. 5
SWMU #188
1736
455
236
100
0
100
SCALE
FEET
454
FIFTH
DRY DOCK AVE
1746
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-7
SWMU #188
SAA, PAINT WASTE
CNSY PERMIT #103
DWG DATE: 05/16/95
DWG NAME: 29188103

4.7.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through surface water runoff. No residential areas are in the vicinity of this SAA. Exposure potential is limited to Naval Base Charleston personnel and future users of the site.

4.7.6 Recommended Action

An RFI is recommended for this site because of the evidence of a release, the potential migration pathways, and poor storage practices observed during the visual site inspection at the SAA.

4.8 SWMU #189 — Satellite Accumulation Area, Building 222, Fenced in Area, CNSY Permit #108

4.8.1 Unit Characteristics

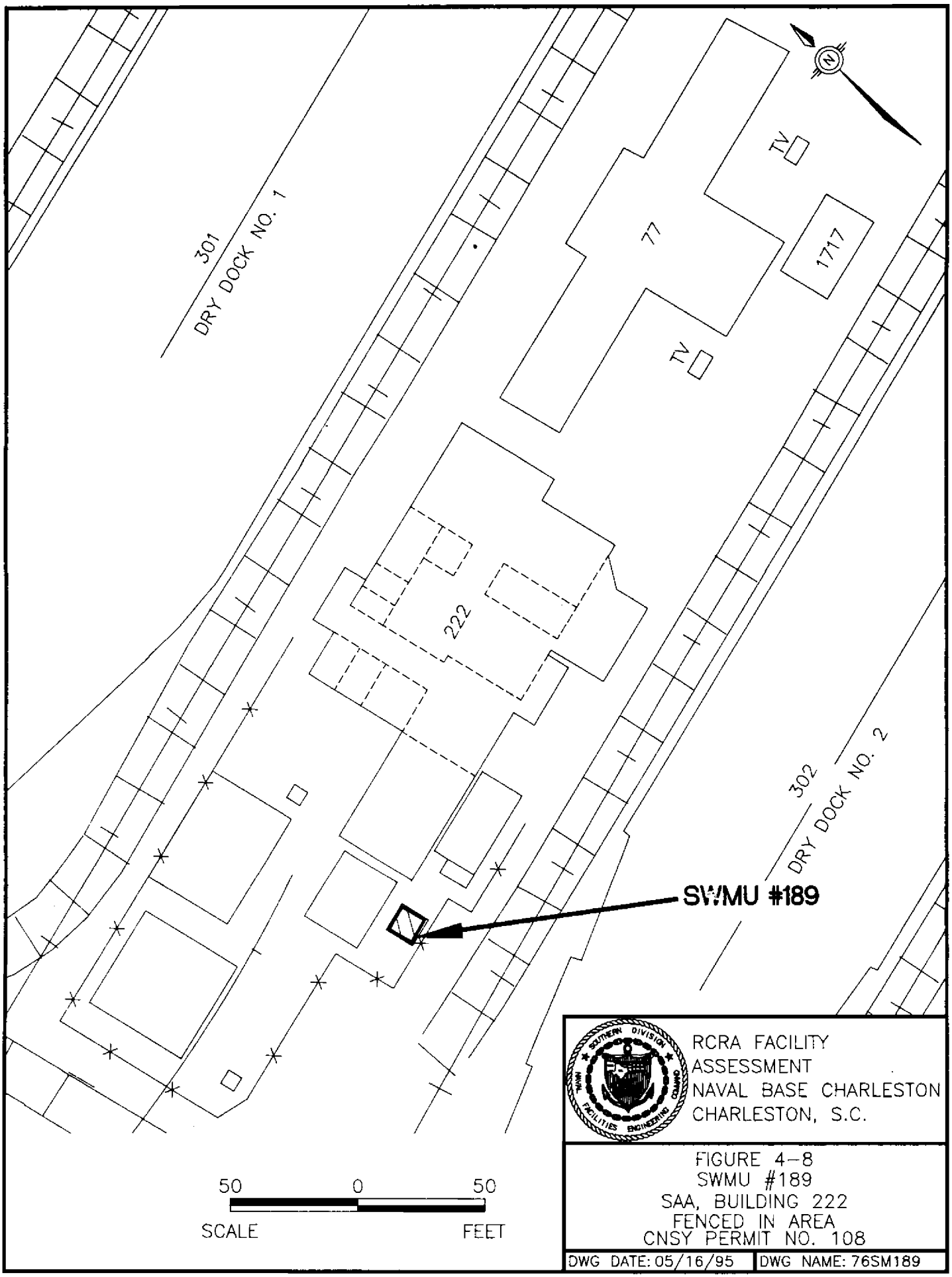
SWMU #189 consists of an SAA inside a metal storage building, located in a fenced area outside Building 222; the unit is an element of the CNSY hazardous waste management system. Hazardous and/or mixed wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. Mixed wastes are transferred to the less-than-90-day AA in the North Bay of Building 79A for radiological processing. This SAA is an 8' x 8' x 8' metal storage building; the unit was permitted on September 21, 1994 and has been operating since that time. Wastes are stored in 55-gallon drums lined with 12 mil polyethylene. SWMU #189 is located at map coordinates H-41 on Figure 4-B. The SWMU location is shown in Figure 4-8.

4.8.2 Waste Characteristics

Waste materials accumulated within this unit include brass, bronze, and cadmium. The constituents of concern are metals.

4.8.3 Migration Pathways

Soil, groundwater, surface water, and subsurface gas are unlikely pathways because of the containment provided by the metal storage building, which the waste drums are stored in. Visual inspection of the storage building and the solid state of the waste eliminates the possibility of migration outside of the storage building. Migration by the air pathway is not likely since the wastes were solid, non-volatile, and contained in an enclosed building.



RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-8
SWMU #189
SAA, BUILDING 222
FENCED IN AREA
CNSY PERMIT NO. 108

DWG DATE: 05/16/95 | DWG NAME: 76SM189

4.8.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.

4.8.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through surface water runoff, however since the unit is maintained in a limited access building this potential is minimal. No residential areas are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.8.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.9 SWMU #190 — Satellite Accumulation Area, Pier J, CNSY Permit #110

4.9.1 Unit Characteristics

SWMU #190 consists of an SAA located in the center of Pier J; the unit is an element of the CNSY hazardous waste management system. Hazardous and/or mixed wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. Mixed wastes are transferred to the less-than-90-day AA in the North Bay of Building 79A for radiological processing. This SAA is an 8' x 8' x 8' metal storage building; the unit was permitted on November 4, 1994 and has been operating since that time. Wastes will be stored in 55-gallon drums lined with 12 mil polyethylene. SWMU #190 is located at map coordinates K-32 on Figure 4-B. The SWMU location is shown in Figure 4-9.

4.9.2 Waste Characteristics

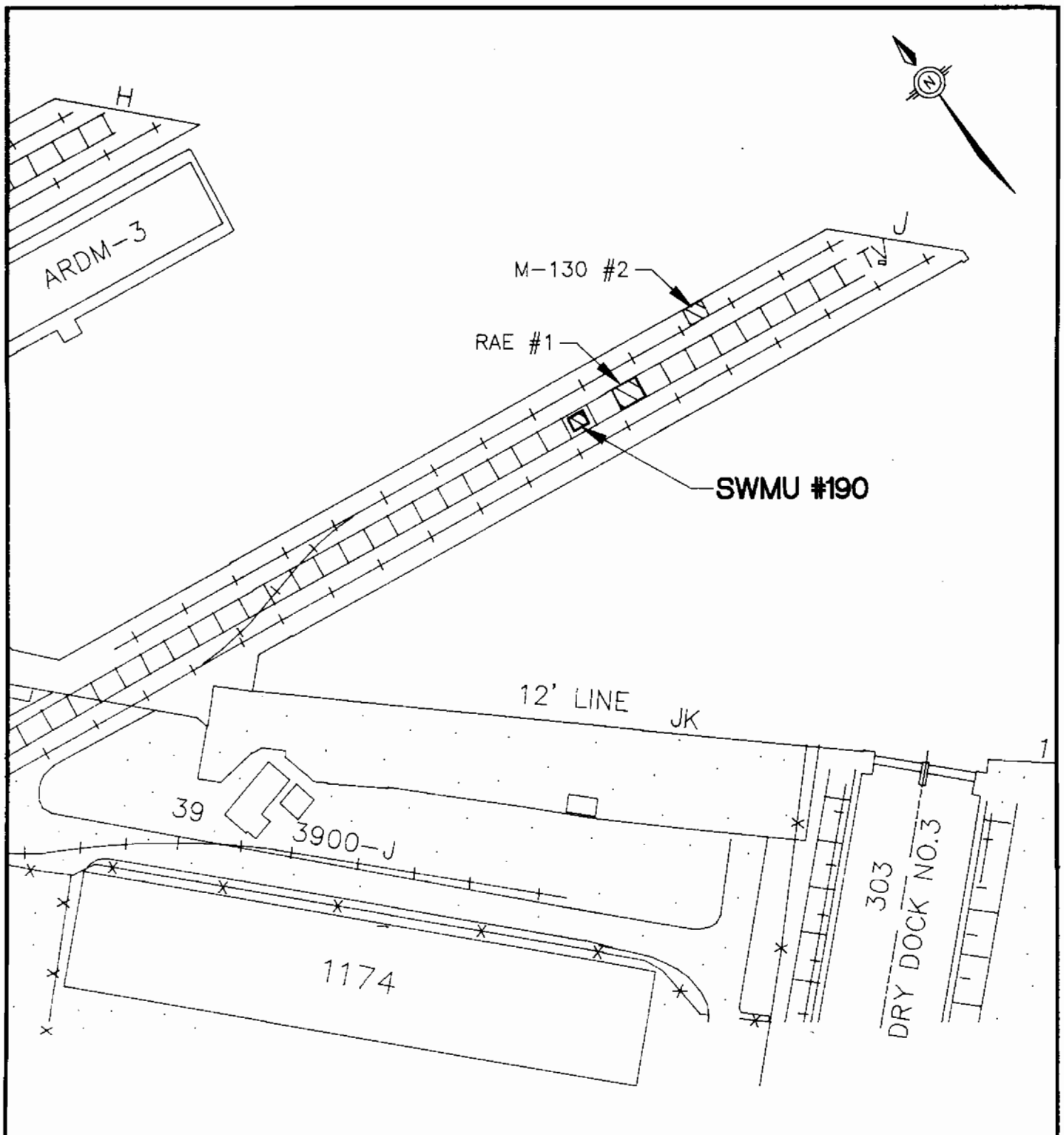
Waste materials that will be accumulated within this unit include lead, brass, and cadmium. The constituents of concern are metals.

4.9.3 Migration Pathways

Surface water runoff and sediment are potential migration pathways for this unit. Migration by the air pathway is not likely since the wastes are solid and non-volatile. Soil, groundwater, and subsurface gas are not considered pathways because the pier projects solely into the river and contact with these media is, therefore, not possible.

4.9.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.



127 0 127
SCALE FEET

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ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-9
SWMU #190
SAA, PIER J
CNSY PERMIT NO. 110

DWG DATE: 05/16/95 | DWG NAME: 76SM190

4.9.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through uncontrolled surface water runoff. No residential areas are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.9.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.10 SWMU #191 — Satellite Accumulation Area, Pier G, CNSY Permit #98

4.10.1 Unit Characteristics

SWMU #191 consists of an SAA that was located on Pier G; the unit is an element of the CNSY hazardous waste management system. Hazardous wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. This SAA was a 20' x 8' area; the unit was permitted on June 10, 1994 and was closed on July 9, 1994. Paint cans and plastic bags were collected in a drip pan on top of the concrete surface. SWMU #191 was located at map coordinates K-35 on Figure 4-B. The SWMU location is shown in Figure 4-10.

4.10.2 Waste Characteristics

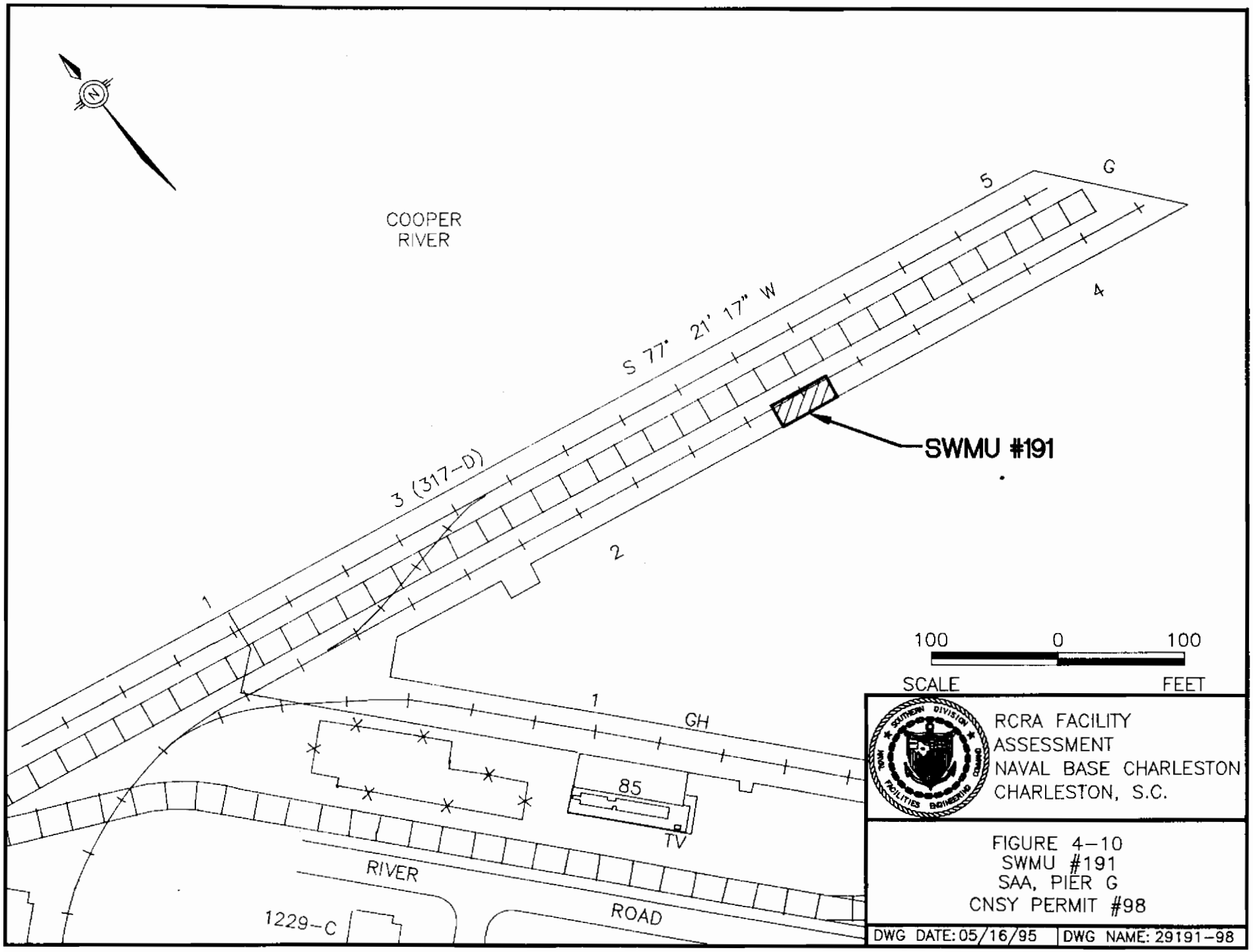
Waste materials accumulated within this unit include paint waste and oily rags. The constituents of concern include metals, VOCs, and petroleum hydrocarbons.

4.10.3 Migration Pathways

Surface water runoff and sediment are potential migration pathways for this unit. Due to the presence of VOCs, air is also considered a migration pathway. Soil, groundwater, and subsurface gas are not considered pathways because the pier projects solely into the river and contact with these media is, therefore, not possible.

4.10.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.


COOPER
RIVER
S 77° 21' 17" W
5
G
4
3 (317-D)
2
1
SWMU #191
100
0
100
SCALE
FEET
1
GH
85
TV
RIVER
ROAD
1229-C
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-10
SWMU #191
SAA, PIER G
CNSY PERMIT #98
DWG DATE: 05/16/95
DWG NAME: 29191-98

4.10.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through surface water runoff. No residential areas are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.10.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.11 SWMU #192 — Satellite Accumulation Area, Building 222, CNSY Permit #111

4.11.1 Unit Characteristics

SWMU #192 consists of an SAA located on the first floor of Building 222 in room 115; the unit is an element of the CNSY hazardous waste management system. Hazardous and/or mixed wastes are accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste is then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. Mixed wastes are transferred to the less-than-90-day AA in the North Bay of Building 79A for radiological processing. This SAA is a 3' x 7' area; the unit was permitted on November 22, 1994 and has been operating since that time. Wastes are stored in 55-gallon drums lined with 12 mil polyethylene on an epoxy sealed concrete floor. SWMU #192 is located at map coordinates H-41 on Figure 4-B. The SWMU location is shown in Figure 4-11.

4.11.2 Waste Characteristics

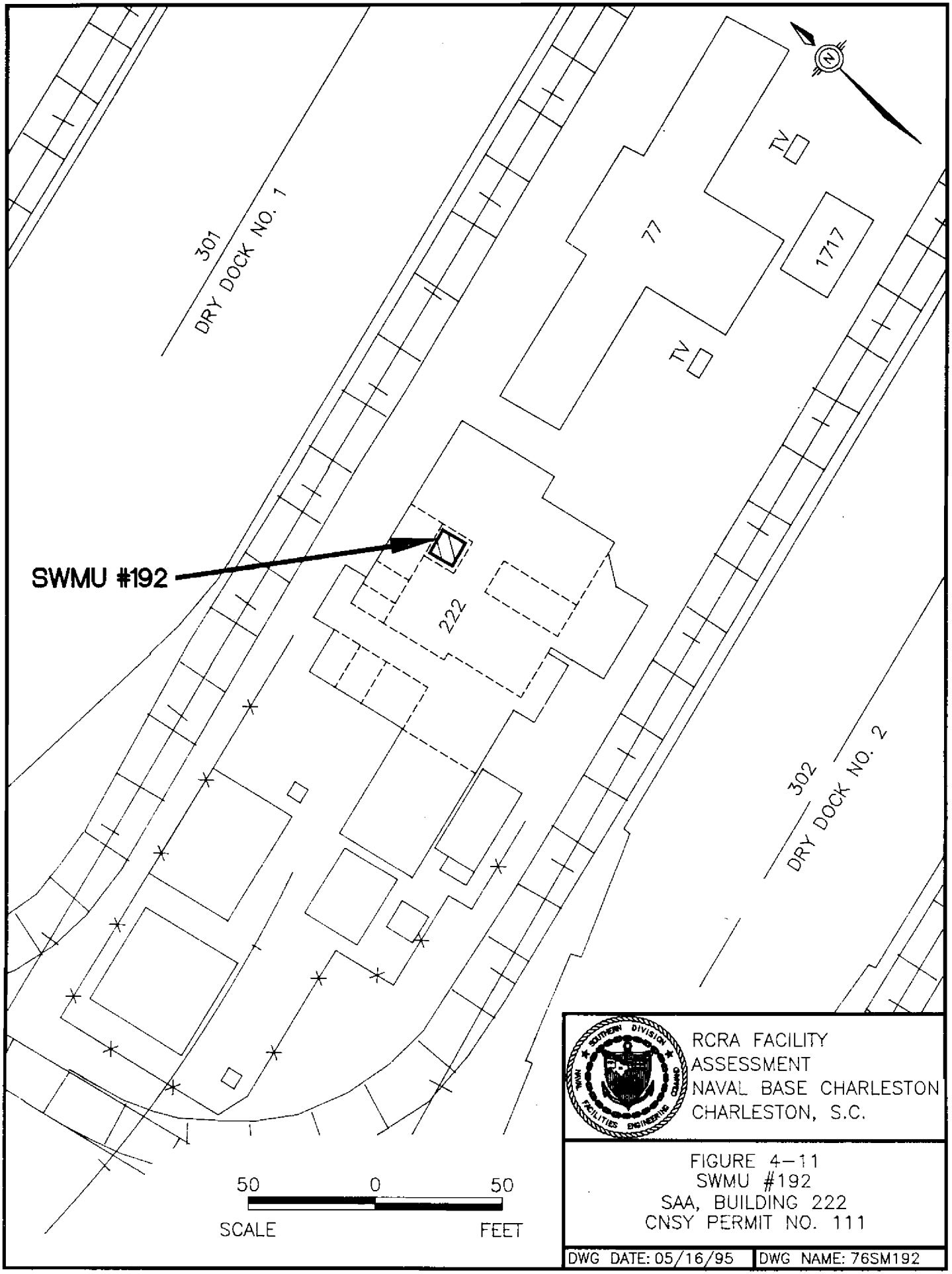
Waste materials accumulated within this unit include lead, brass, bronze, chromium, and cadmium. The constituents of concern are metals.

4.11.3 Migration Pathways

Soil, groundwater, surface water, and subsurface gas are unlikely pathways because of the containment provided by the building and the epoxy sealed concrete floor. Visual inspection of the floor revealed no cracking or deterioration in the vicinity of the SAA. Migration by the air pathway is not likely since the wastes are solid and non-volatile.

4.11.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.


301
DRY DOCK NO. 1
77
TV
1717
TV
SWMU #192
222
302
DRY DOCK NO. 2
50
0
50
SCALE
FEET
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-11
SWMU #192
SAA, BUILDING 222
CNSY PERMIT NO. 111
DWG DATE: 05/16/95
DWG NAME: 76SM192

4.11.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.

4.11.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.12 SWMU #193 — Satellite Accumulation Area, Building 79A, CNSY Permit #107

4.12.1 Unit Characteristics

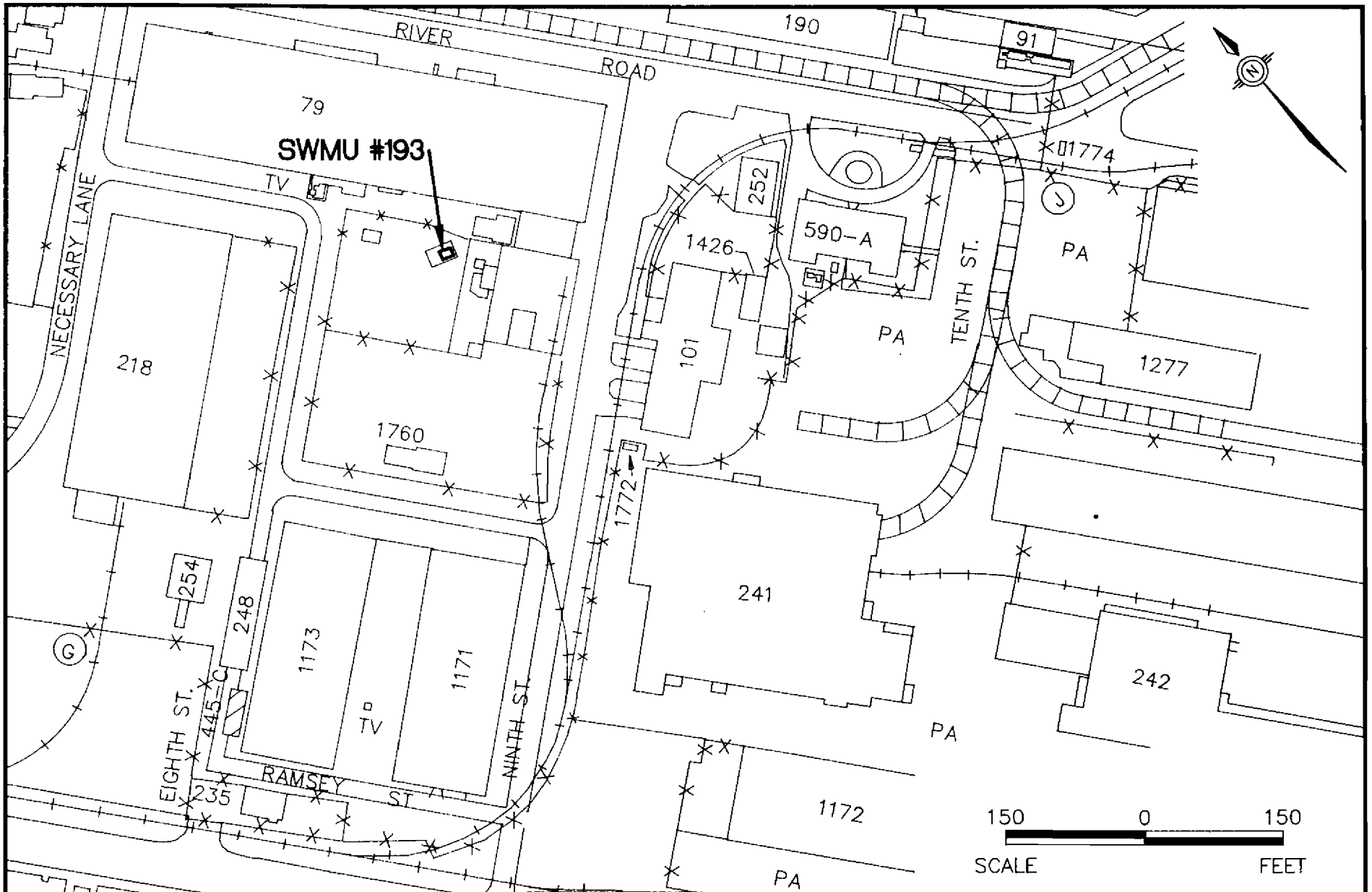
SWMU #193 consists of an SAA that was located inside of an enclosed trailer situated in a fenced area outside of Building 79A; the unit was an element of the CNSY hazardous waste management system. Hazardous and/or mixed wastes were accumulated [in accordance with 40 CFR 262.34(c) and SCHWMR R.61-79.262.34(c)] within this unit. Hazardous waste was then transferred to Building 1640, a permitted hazardous waste storage facility where hazardous wastes generated basewide are stored prior to shipment offsite for treatment and/or disposal. Mixed wastes are transferred to the less-than-90-day AA in the North Bay of Building 79A for radiological processing. This site is a 5' x 5' area inside an enclosed metal trailer; the unit was permitted on November 16, 1994. Wastes were accumulated in this unit until the SAA was closed November 30, 1994. Wastes were stored in 55-gallon drums lined with 12 mil polyethylene. SWMU #193 is located at map coordinates J-35 on Figure 4-B. The SWMU location is shown in Figure 4-12.

4.12.2 Waste Characteristics

Waste materials accumulated within this unit included brass and bronze. The constituents of concern are metals.

4.12.3 Migration Pathways

Soil, groundwater, surface water, and subsurface gas are unlikely pathways because of the containment provided by the trailer, which the waste drums were stored in. Visual inspection of the trailer and the solid state of the waste eliminates the possibility of migration outside of the trailer. Migration by the air pathway is not likely since the wastes were solid, non-volatile, and contained in an enclosed trailer.



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CHARLESTON, S.C.

FIGURE 4-12
SWMU #193
SAA, BUILDING 79A
CNSY PERMIT NO. 107

DWG DATE: 05/16/95 | DWG NAME: 76SM193

4.12.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.

4.12.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this SAA. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Naval Base Charleston personnel that may have frequented the vicinity of the unit and future users of the site.

4.12.6 Recommended Action

NFI of this SAA is recommended due to the use of proper storage practices, the lack of evidence of any release from this unit, and the limited migration pathways.

4.13 SWMU #194 — Building 197 Paint Storage, Naval Short Stay

4.13.1 Unit Characteristics

SWMU #194 consists of Building 197, chemical and paint storage building, and surrounding area. This structure is approximately 10' x 12' x 8', and was built in 1989. Materials stored within this SWMU include diesel fuel, latex paint, spray paints, lube oils, and cleaning chemicals. The materials inside the building are stored in either a flammable storage locker or an aluminum tub to prevent runoff of any spills. Two 500-gallon ASTs are located outside in the laydown area. One of the ASTs contains diesel fuel and has a metal secondary containment structure. The second AST was empty, but a Hazardous Material Information System placard indicated that the tank had contained a material that was hazardous to human health and had a flashpoint below 200°F. Several 55-gallon drums and other debris were observed in the laydown yard. One of the drums in the yard contained hydraulic fluid, the remaining drums were filled with cured concrete. SWMU #194 is located on Figure 4-E. The SWMU location is shown in Figure 4-13.

4.13.2 Waste Characteristics

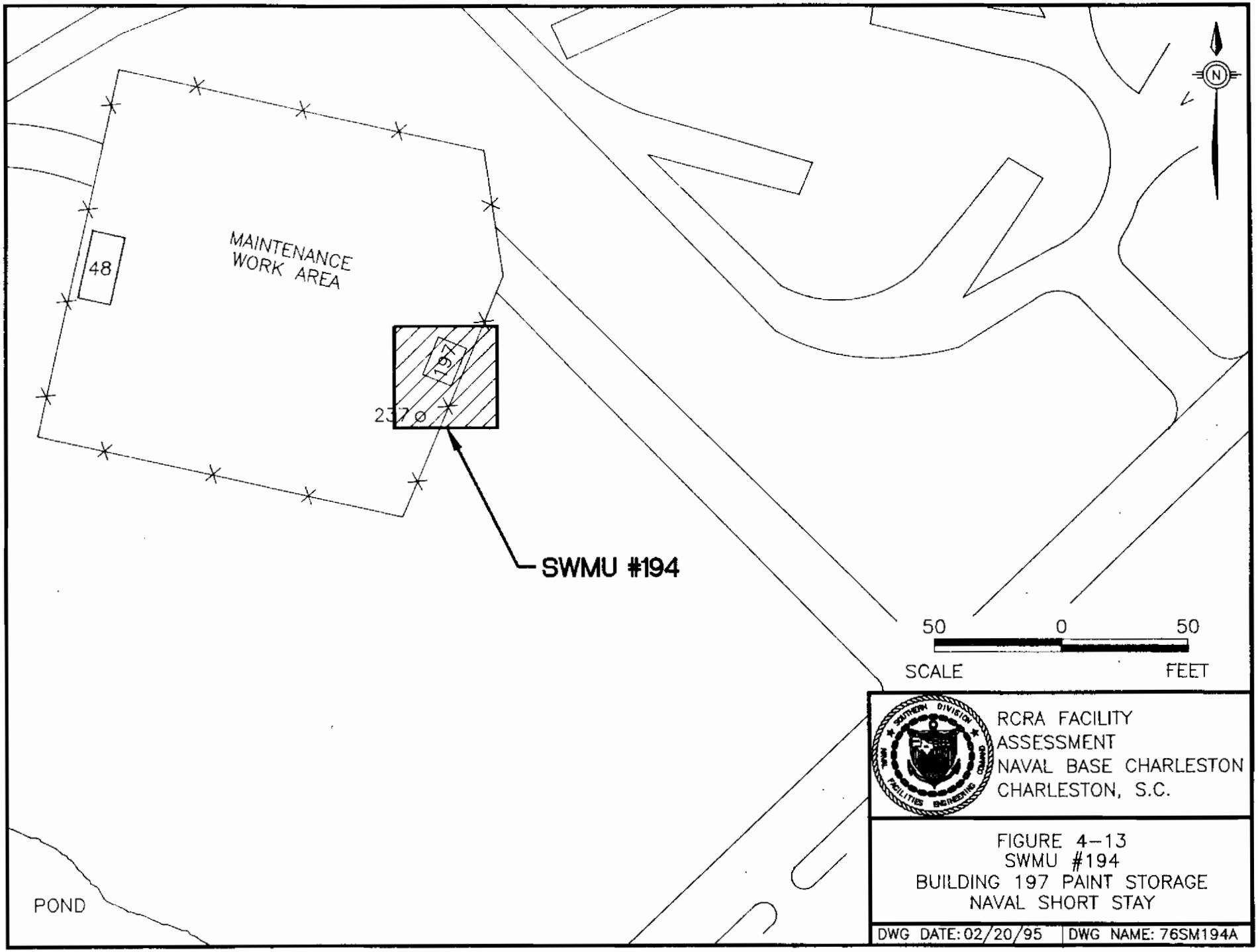
Waste materials associated with this unit included paints, diesel fuel, cleaning chemicals and lube oils. The constituents of concern are VOCs and petroleum hydrocarbons.

4.13.3 Migration Pathways

Soil, groundwater, surface water, air, and subsurface gas are all considered migration pathways for this SWMU.

4.13.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. However, staining was observed under the spigot attached to the diesel AST. The stained area is approximately one square foot. No other evidence of a release from the materials stored within the building or the laydown yard was observed. Following the site visit, the CNSY Occupational Safety, Health, and Environmental


MAINTENANCE
WORK AREA
48
197
237
SWMU #194
POND
N
50
0
50
SCALE
FEET
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-13
SWMU #194
BUILDING 197 PAINT STORAGE
NAVAL SHORT STAY
DWG DATE: 02/20/95
DWG NAME: 76SM194A

Office remediated the spill area, disposed of the impacted soil (approximately 2 to 3 inches), and equipped the diesel AST with a concrete secondary berm or dike. No sampling or analysis of the soil at this site was conducted.

4.13.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this SWMU, a recreational area is adjacent to the site but no impact is expected due to the SWMU. Due to the use of proper storage practices and the limited access to this unit, exposure potential is limited to Navy personnel and dependents that may frequent the vicinity of the unit and future users of the site.

4.13.6 Recommended Action

The CNSY Occupational Safety, Health, and Environmental office was notified of the potential petroleum release at the site and remedial action will being taken; therefore, NFI of this site is recommended under the RFI process.

4.14 SWMU #195 — Building 207 Flammable Storage, Naval Short Stay

4.14.1 Unit Characteristics

SWMU #195 consists of former Building 207, a flammable storage shelter, and surrounding area. This structure was used from approximately 1960, until it was removed in 1989 because of substantial damage received during Hurricane Hugo. No information regarding the size of the structure was available. The visual site inspection revealed that the structure was located on a concrete pad adjacent to Lake Moultrie. SWMU #195 is located on Figure 4-E. The SWMU location is shown in Figure 4-14.

4.14.2 Waste Characteristics

Waste materials associated with this SWMU included paints, paint thinners, cleaning chemicals and lube oils. The constituents of concern are VOCs, metals, and petroleum hydrocarbons.

4.14.3 Migration Pathways

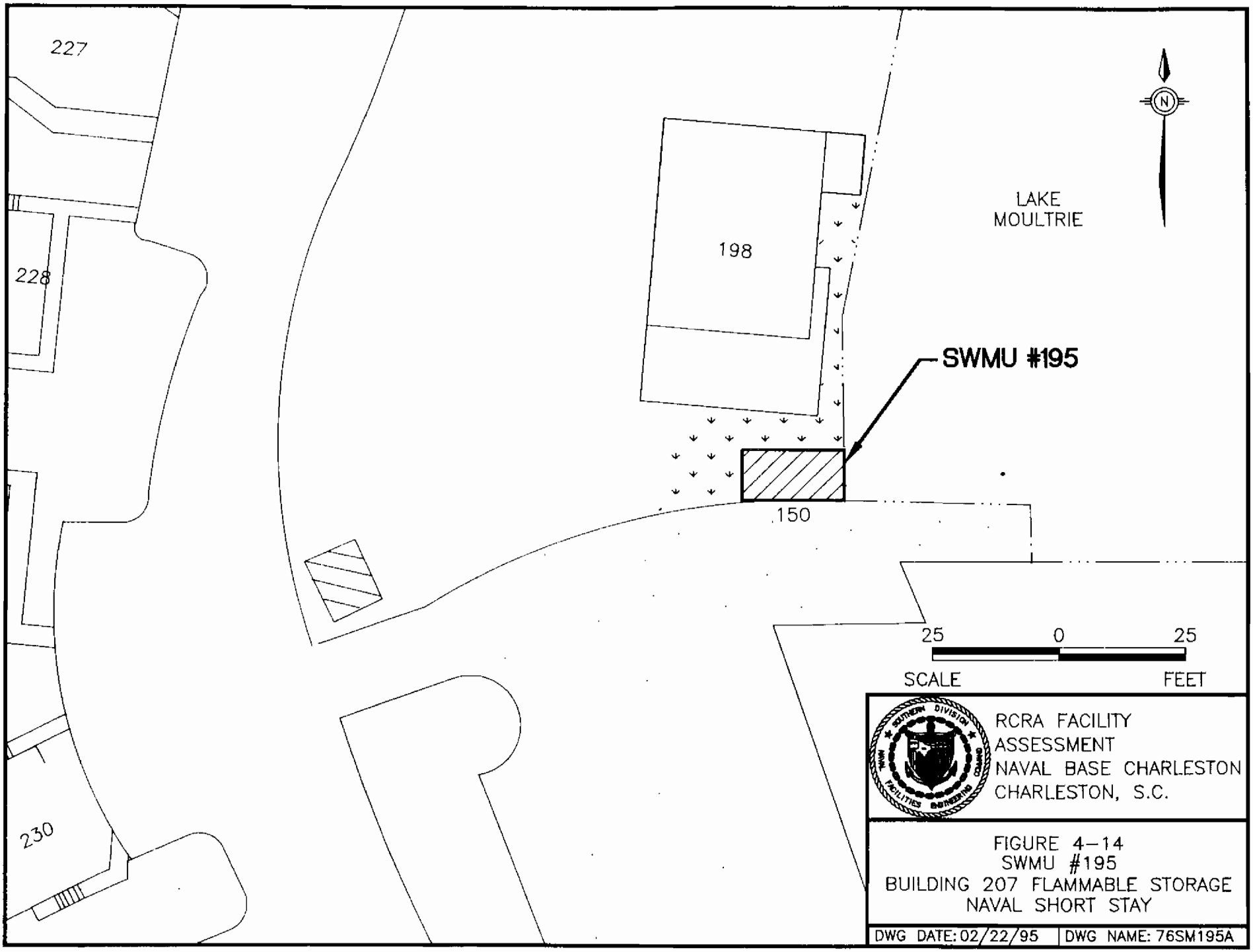
Due to the proximity of Lake Moultrie and the mobility of the volatile constituents, surface water and air are both potential pathways of this SWMU. Soil, groundwater, and subsurface gas are also potential migration pathways because the concrete surface does not cover all of the underlying soil in the area.

4.14.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. Some stressed vegetation, likely from standing water, was observed along a surface water runoff ditch adjacent to the concrete pad.

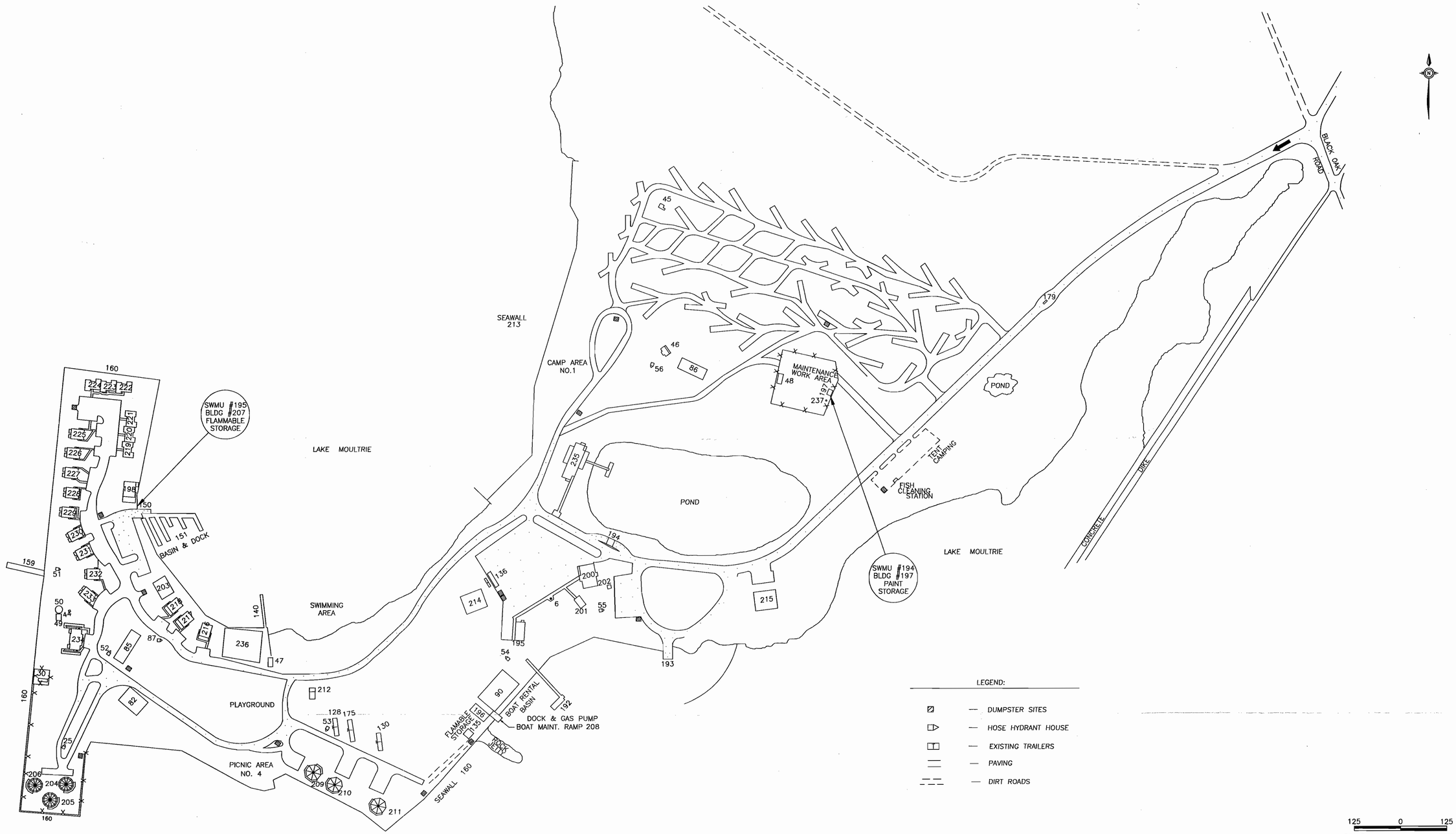
4.14.5 Exposure Potential

Due to the proximity of this unit to Lake Moultrie, potential exposure would be possible for ecological receptors in the lake through uncontrolled surface water runoff. No residential areas are in the vicinity of this SWMU. Due to the limited access to this SWMU, exposure potential is limited to Navy personnel and dependents that may frequent the vicinity of the SWMU and future users of the site.


227
228
230
198
150
SWMU #195
LAKE
MOULTRIE
N
25
0
25
SCALE
FEET
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-14
SWMU #195
BUILDING 207 FLAMMABLE STORAGE
NAVAL SHORT STAY
DWG DATE: 02/22/95
DWG NAME: 76SM195A

4.14.6 Recommended Action

NFI of this unit is recommended due to the lack of evidence of any release from this SWMU.



NOTE:

1. NAVAL STATION, CHARLESTON, S.C. LEASE = 56.6 ACRES +

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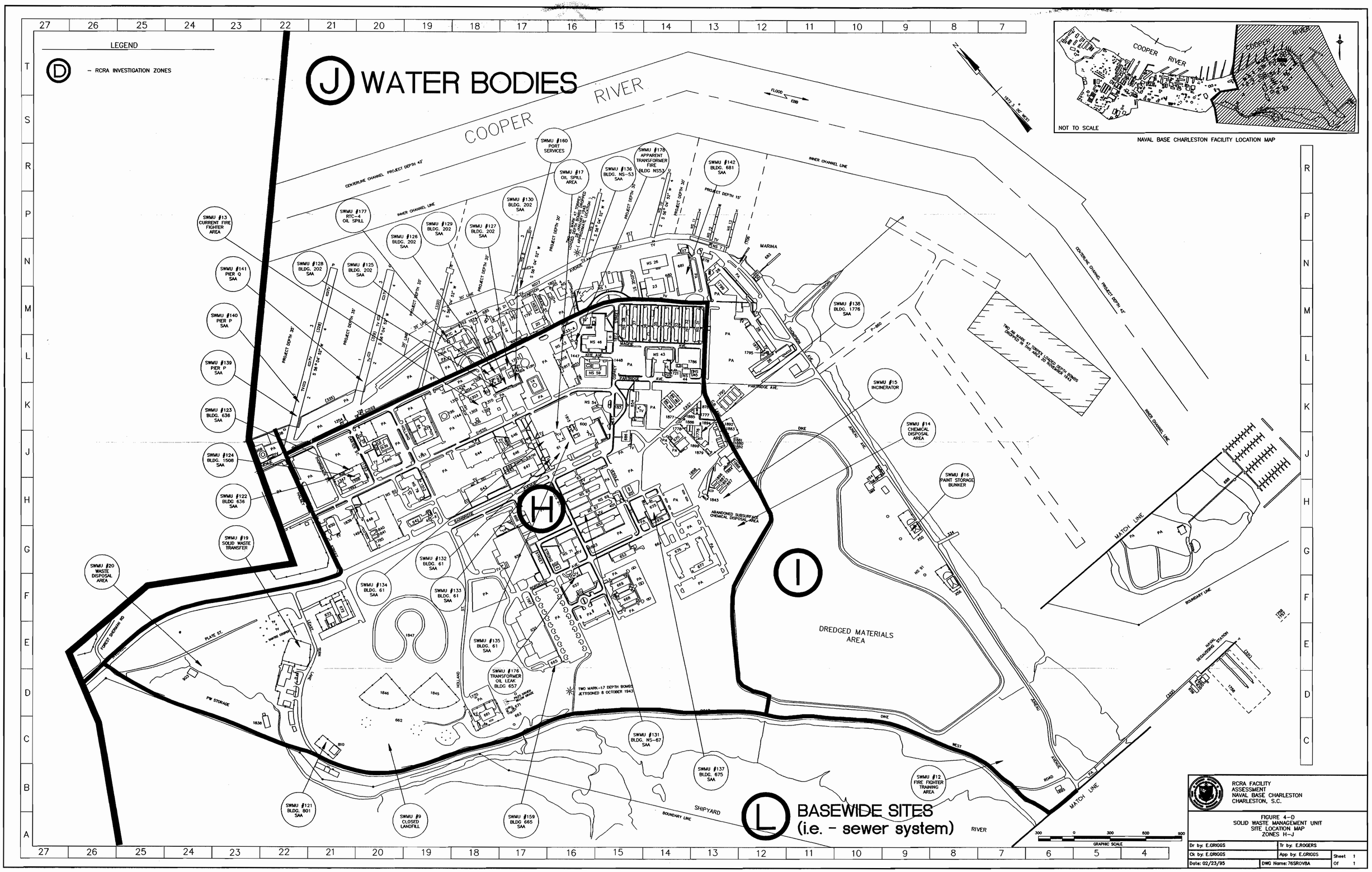
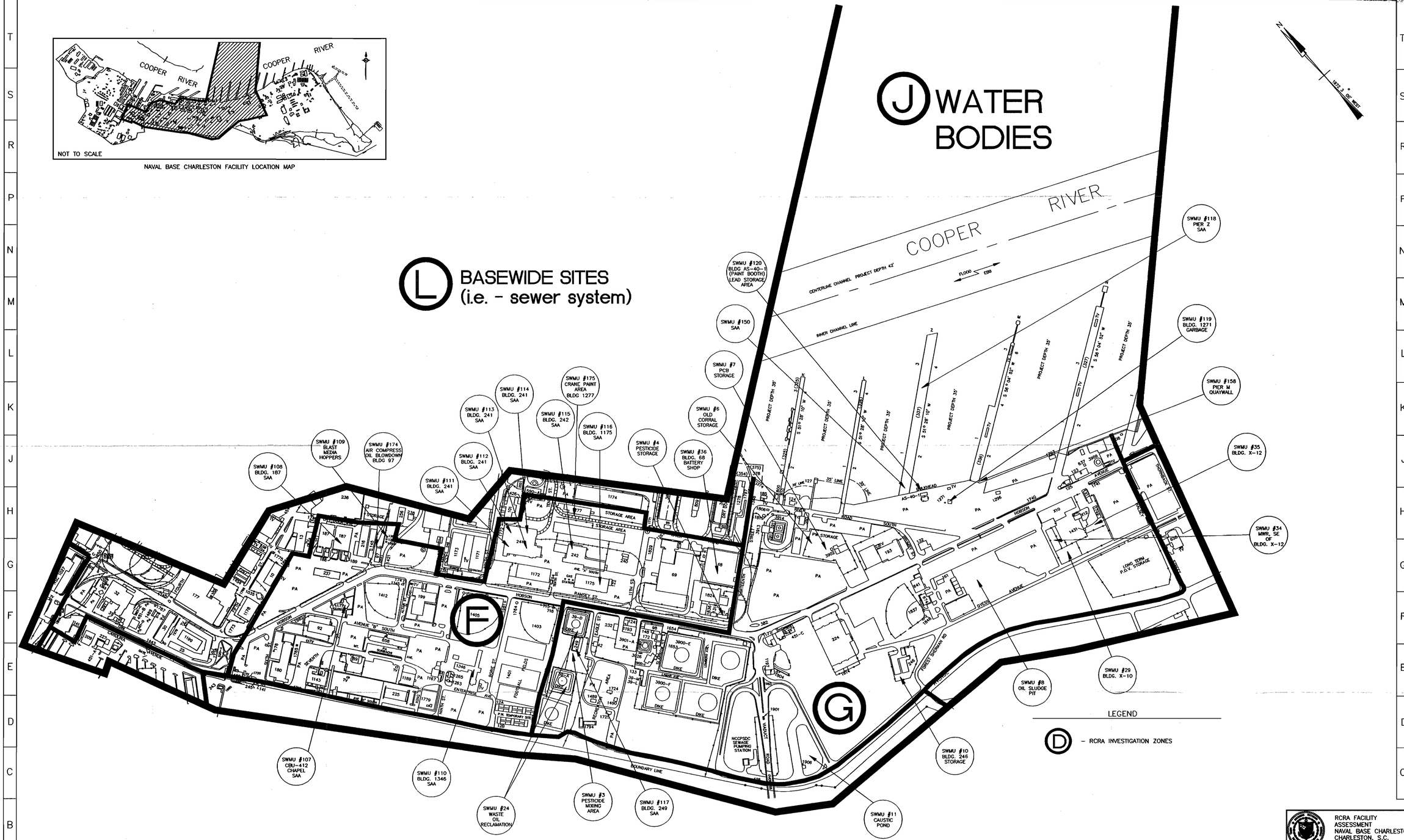
CHARLESTON, S.C.

FIGURE 4-E
SOLID WASTE MANAGEMENT UNIT
SITE LOCATION MAP
NAVAL SHORT STAY

Dr by: NAME	Tr by:	
Ck by:	App by: NAME	Sheet 1
Date: 02/20/95	DWG Name: 760SHT1B	Of 1


LEGEND
D - RCRA INVESTIGATION ZONES
J WATER BODIES
COOPER RIVER
NOT TO SCALE
NAVAL BASE CHARLESTON FACILITY LOCATION MAP
SWMU #160 PORT SERVICES
SWMU #17 OIL SPILL AREA
SWMU #136 BLDG. NS-53 SAA
SWMU #178 APPARENT TRANSFORMER FIRE BLDG NS53
SWMU #142 BLDG. 681 SAA
SWMU #130 BLDG. 202 SAA
SWMU #177 RTC-4 OIL SPILL
SWMU #13 CURRENT FIRE FIGHTER AREA
SWMU #126 BLDG. 202 SAA
SWMU #129 BLDG. 202 SAA
SWMU #127 BLDG. 202 SAA
SWMU #141 PIER Q SAA
SWMU #128 BLDG. 202 SAA
SWMU #125 BLDG. 202 SAA
SWMU #140 PIER P SAA
SWMU #139 PIER P SAA
SWMU #123 BLDG. 636 SAA
SWMU #124 BLDG. 1508 SAA
SWMU #122 BLDG 636 SAA
SWMU #19 SOLID WASTE TRANSFER
SWMU #20 WASTE DISPOSAL AREA
SWMU #138 BLDG. 1776 SAA
SWMU #15 INCINERATOR
SWMU #14 CHEMICAL DISPOSAL AREA
SWMU #16 PAINT STORAGE BUNKER
SWMU #132 BLDG. 61 SAA
SWMU #134 BLDG. 61 SAA
SWMU #133 BLDG. 61 SAA
SWMU #135 BLDG. 61 SAA
SWMU #176 TRANSFORMER OIL LEAK BLDG 657
SWMU #131 BLDG. NS-67 SAA
SWMU #137 BLDG. 675 SAA
SWMU #12 FIRE FIGHTER TRAINING AREA
SWMU #121 BLDG. 801 SAA
SWMU #9 CLOSED LANDFILL
SWMU #159 BLDG 665 SAA
H
I
DREDGED MATERIALS AREA
ABANDONED SUBSURFACE CHEMICAL DISPOSAL AREA
TWO MARK-17 DEPTH BOMBS JETTISONED 8 OCTOBER 1943
TWO AM MARK 47 TORPEX LOADED DEPTH BOMBS DROPPED IN THIS AREA 20 NOVEMBER 1943
MARINA
SHIPYARD
RIVER
BASEWIDE SITES
(i.e. - sewer system)
GRAPHIC SCALE
RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 4-D
SOLID WASTE MANAGEMENT UNIT
SITE LOCATION MAP
ZONES H-J
Dr by: E.GRIGGS
Tr by: E.ROGERS
Ck by: E.GRIGGS
App by: E.GRIGGS
Sheet 1 Of 1
Date: 02/23/95
DWG Name: 76SROV8A

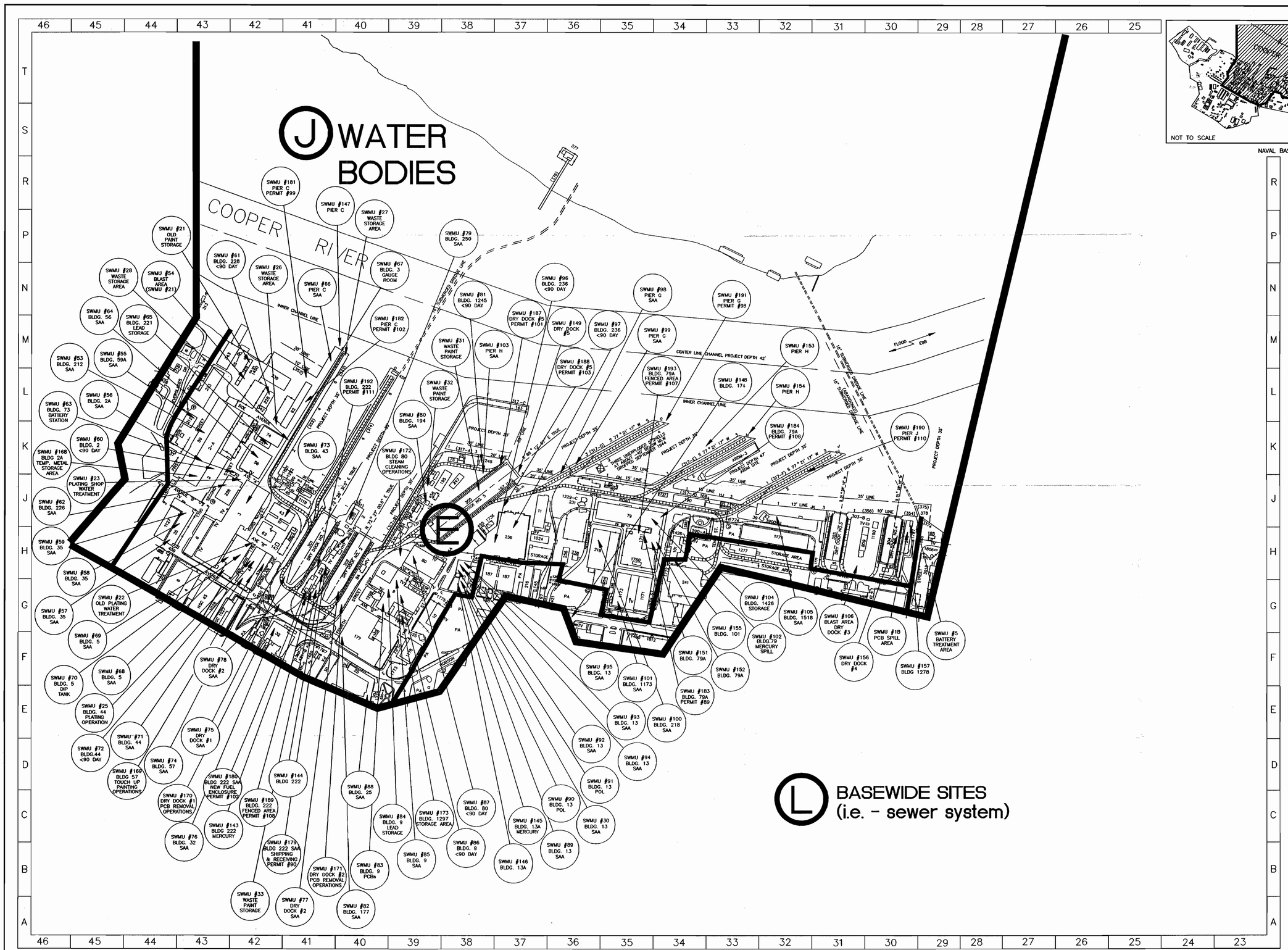
NAVAL BASE CHARLESTON FACILITY LOCATION MAP

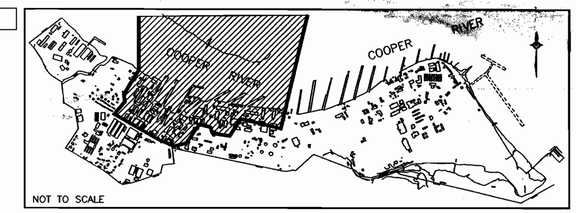


RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-C
SOLID WASTE MANAGEMENT UNIT
SITE LOCATION MAP
ZONES F-G

Dr by: E.GRIGGS	Tr by: E.ROGERS	
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet 1
Date: 02/23/95	DWG Name: 76SR0V7A	Of 1





NAVAL BASE CHARLESTON FACILITY LOCATION MAP

LEGEND

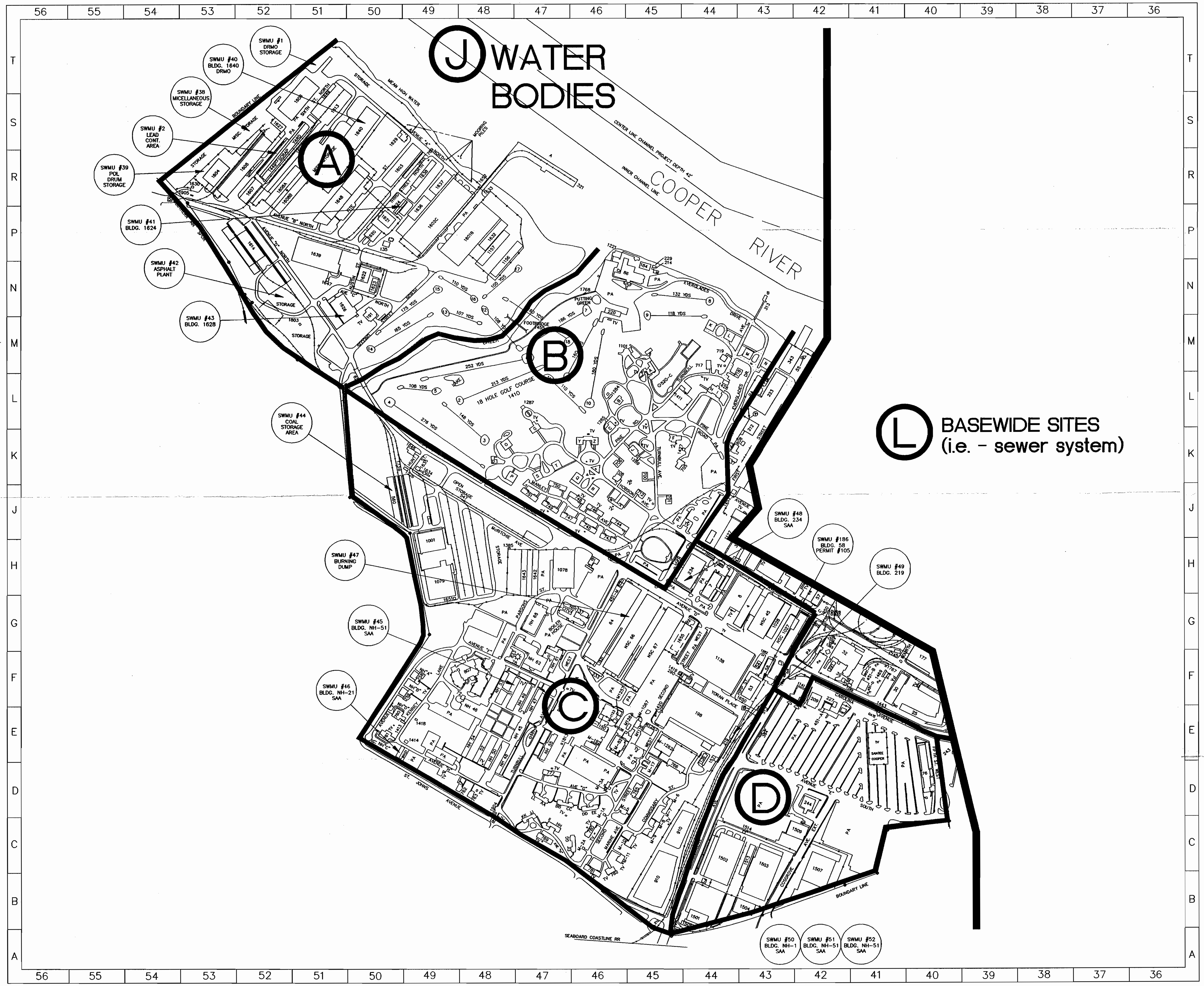
D - RCRA INVESTIGATION ZONES

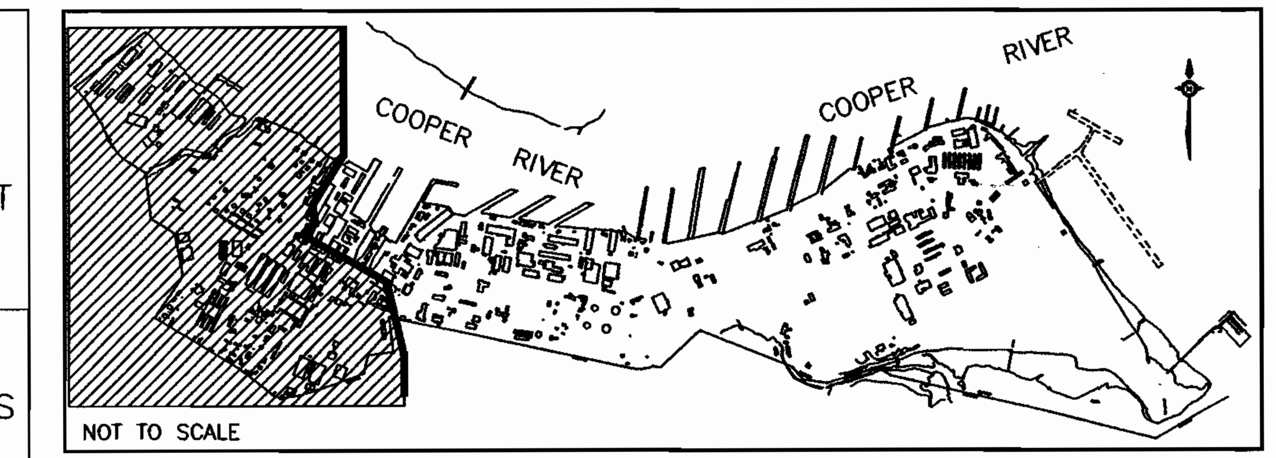
300 0 300 600 900
GRAPHIC SCALE

RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-B
SOLID WASTE MANAGEMENT UNIT
SITE LOCATION MAP
ZONE E

Dr by: E.GRIGGS	Tr by: E.ROGERS	
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet 1
Date: 02/23/95	DWG Name: 76SROV6A	Of 1





NAVAL BASE CHARLESTON FACILITY LOCATION MAP

RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 4-A
SOLID WASTE MANAGEMENT UNIT
SITE LOCATION MAP
ZONES A-D

Dr by: E.GRIGGS	Tr by: E.ROGERS		
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet	1
Date: 02/23/95	DWG Name: 76SROV5A	Of	1

5.0 AREAS OF CONCERN

5.1 AOC #699 — Storm Sewer System

5.1.1 Unit Characteristics

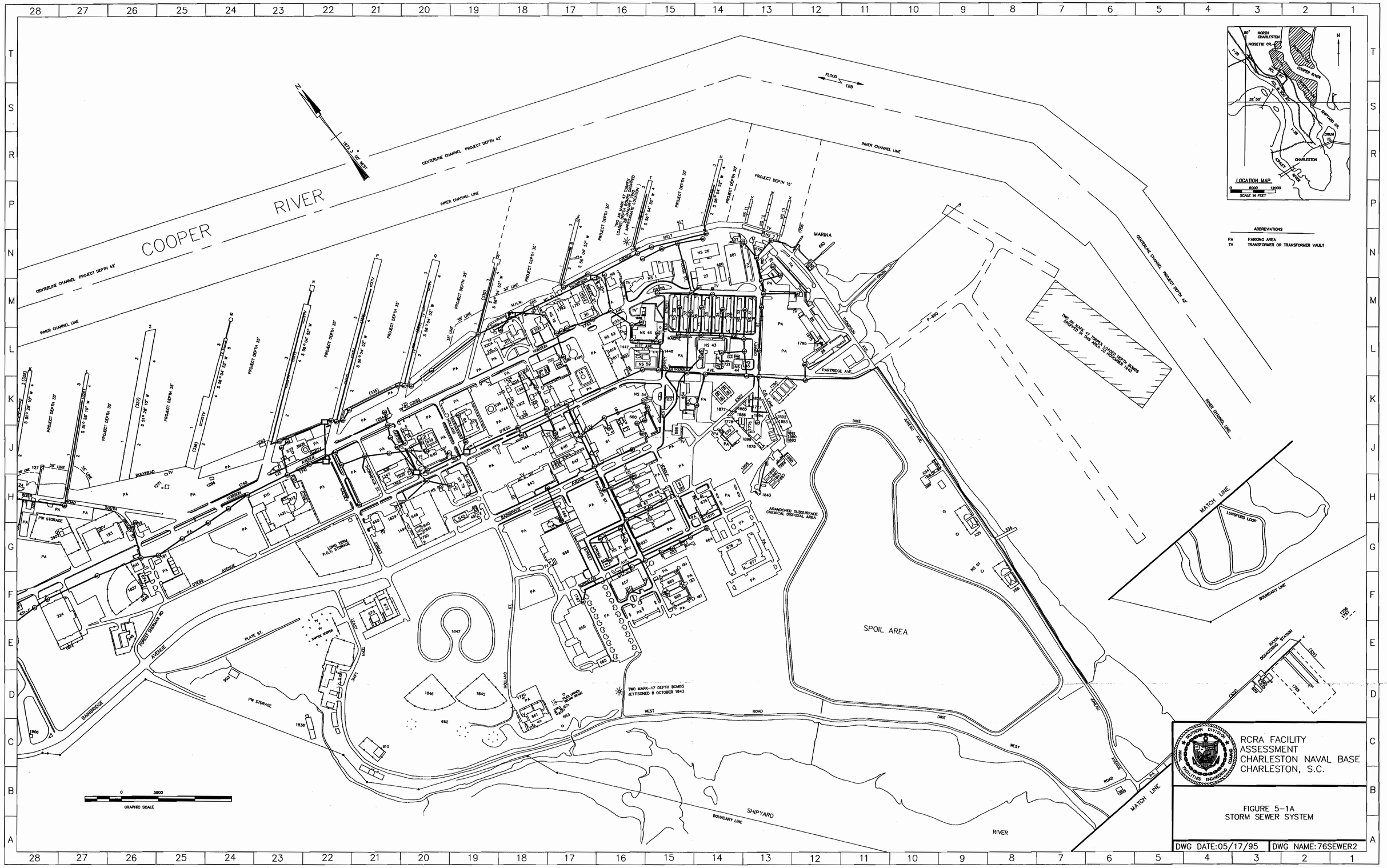
AOC #699 consists of the storm sewer system serving Naval Base Charleston. The storm sewer system collects rainfall from 1325 acres. Over 8,300,000 gallons are collected and discharged in a typical storm of 0.5 inches of rainfall over a 2 hour period. Water is then ultimately discharged to the Cooper River. Most lines are constructed of vitrified clay, while others are constructed of ductile iron and polyvinyl chloride (PVC). According to the *Wastewater Facilities Evaluation, Charleston Naval Base, Charleston, S.C.*, [September 1990] by Davis and Floyd, Inc. the storm sewer has some cross connects with the sanitary sewer system. Prior to 1970 the sanitary and storm sewer systems operated using the same lines, the change to separate systems was made during the period from 1970-1980. Any cross connection of these systems is unintentional and purely an oversight during the separation of the two systems. AOC #699 is located basewide, Figure 5-1 shows the storm sewer layout across Naval Base Charleston.

5.1.2 Waste Characteristics

Based on the range of collection areas and the cross connections that exist between the sanitary sewer system, any type of waste that has been released on the ground or into the sanitary system is a potential contaminant. The constituents of concern include metals, petroleum hydrocarbons, solvents, surfactants, acids, and caustics.

5.1.3 Migration Pathways

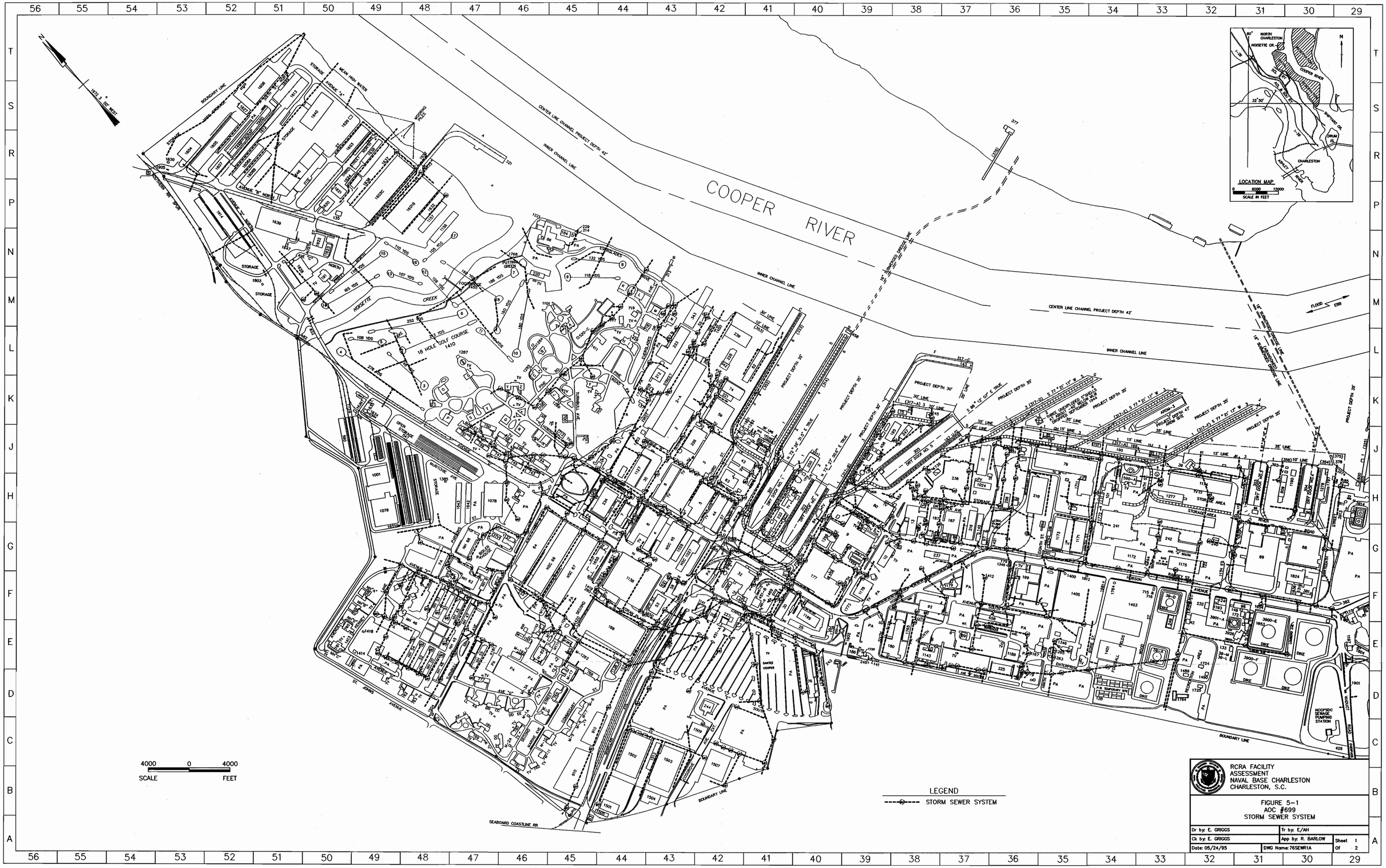
Soil, groundwater, surface water, sediment, air and subsurface gas are all potential pathways because of the large area that the storm sewer covers, cross connections between the sanitary sewer system, and infiltration.



RCRA FACILITY ASSESSMENT
CHARLESTON NAVAL BASE
CHARLESTON, S.C.

FIGURE 5-1A
STORM SEWER SYSTEM

DWG DATE:05/17/95 | DWG NAME:76SEWER2


COOPER RIVER
CENTER LINE CHANNEL PROJECT DEPTH 42'
INNER CHANNEL LINE
HOBSETTE CREEK
18 HOLE GOLF COURSE
BOUNDARY LINE
SEABOARD COASTLINE RR
LOCATION MAP
NORTH CHARLESTON
HOBSETTE CR.
COOPER RIVER
CHARLESTON
ASHLEY RIVER
SCALE IN FEET
4000 0 4000
SCALE FEET
LEGEND
STORM SEWER SYSTEM
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 5-1
AOC #699
STORM SEWER SYSTEM
Dr by: E. GRIGGS
Tr by: E/AH
Ck by: E. GRIGGS
App by: R. BARLOW
Sheet 1
Of 2
Date: 05/24/95
DWG Name: 76SEWR1A

5.1.4 Evidence of Release

The preliminary review found no spill reports or inspection reports that would indicate a release from this unit. However, based on interviews and observations releases have occurred to the storm sewer system.

5.1.5 Exposure Potential

Since the storm sewer system discharges directly into the Cooper River any release will have an impact to ecological receptors of the river. Exposure potential also exists for any Naval Base Charleston personnel or future users of the site that may be exposed to the storm sewer system.

5.1.6 Recommended Action

An RFI is recommended for the storm sewer system based upon the probable releases from this unit, the available migration pathways, and the exposure potential.

5.2 AOC #700 — Golf Maintenance Building

5.2.1 Unit Characteristics

AOC #700 consists of Building 1646, Golf Maintenance Building, and surrounding area. This structure was built in 1975, and was used for lawnmower storage and repair; and for pesticide storage and mixing. The building is no longer being used and at the time of the visual site inspection all of the chemicals and equipment had been removed. AOC #700 is located at map coordinates K-49 on Figure 5-B. The SWMU location is shown in Figure 5-2.

5.2.2 Waste Characteristics

Materials associated with this unit include oil, gas, grease, herbicides, and pesticides. The constituents of concern include metals, acids, VOCs, herbicides, pesticides, and petroleum hydrocarbons.

5.2.3 Migration Pathways

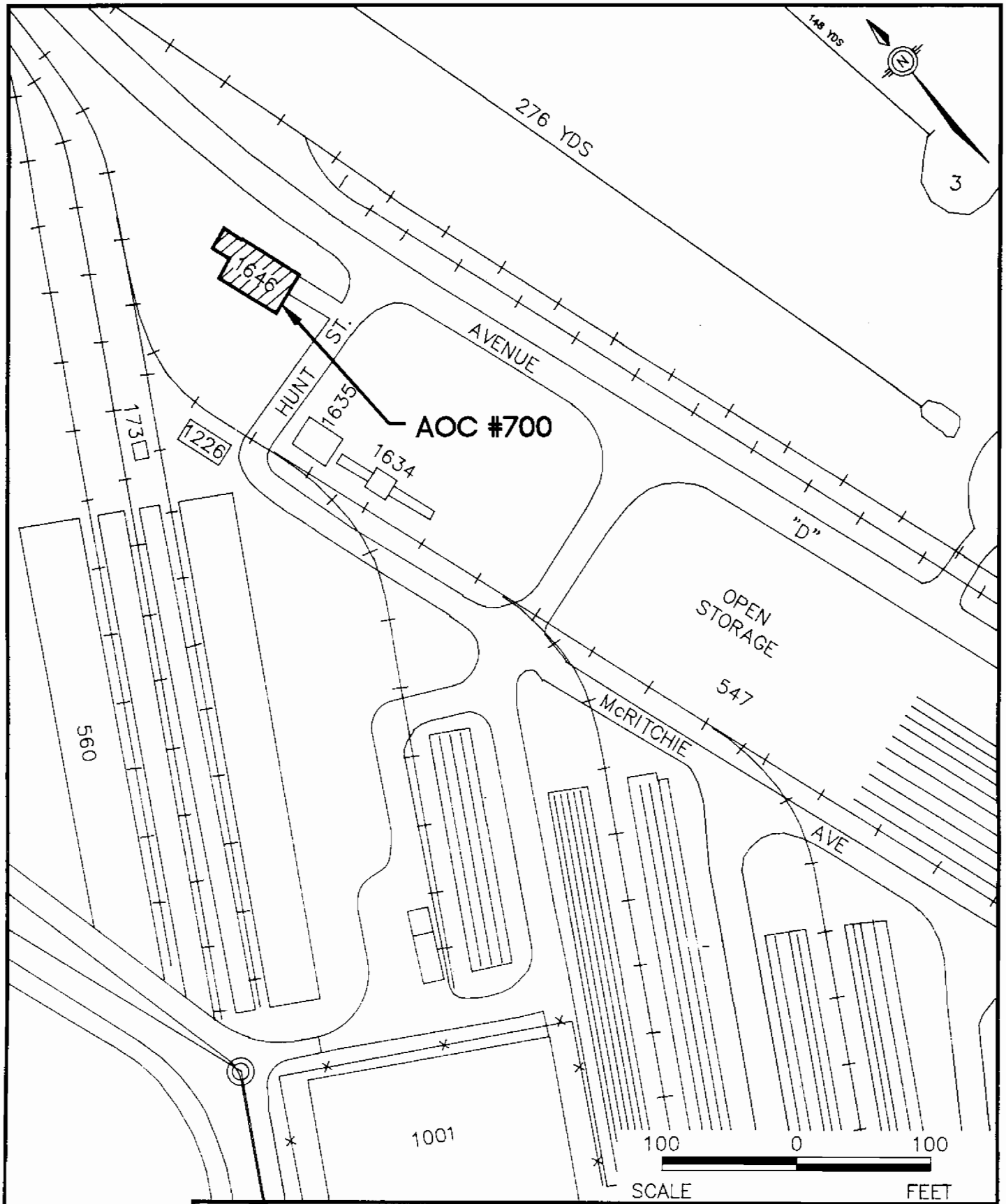
Soil, groundwater, surface water, air and subsurface gas are all potential migration pathways because of the deteriorated concrete floor, and exposed soil around the outside of the building.

5.2.4 Evidence of Release

The preliminary review found no spill reports, or inspection reports, which would indicate any release at this unit. However, interviews with Naval Base Charleston employees indicate that several releases have occurred. There were also several areas of stained soil indicating previous releases on the west and northwest sides of the unit and fence adjacent to the railroad tracks and Hunt Street. Stressed and dead vegetation was also observed on the west, north, and northwest sides of the unit.

5.2.5 Exposure Potential

No residential areas are in the vicinity of this AOC. The potential for exposure exists to Naval Base Charleston personnel that may frequent the vicinity of the unit and future users of the site.



RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 5-2
AOC #700
GOLF MAINTENANCE BUILDING

DWG DATE: 05/16/95 | DWG NAME: 29AC700

5.2.6 Recommended Action

An RFI is recommended for this site due to the potential migration pathways and evidence of releases at the unit.

5.3 AOC #701 — McMillan Avenue Gas Station

5.3.1 Unit Characteristics

AOC #701 consists of the former McMillan Avenue gasoline station, Building 1141. The station was built in 1941 and was used as a service station until 1979 when it was renovated and converted into the security building. In 1987 an addition was completed; Building 1141 is currently used as the security building. According to Naval Base Charleston personnel, two underground storage tanks were situated on the northwest side of the building. These tanks were located, filled with sand, and closed-in-place in 1973. According to a tank closure memorandum obtained from the CNSY Occupational Safety, Health, and Environmental Office which contains closure pictures and laboratory analytical results, a DHEC representative states that due to tank closure prior to 1974, no regulatory notification of the tanks existence would be required. Analytical data shows surrounding soil to be clean at the time of tank closure.

AOC #701 is located at map coordinates F-42 on Figure 5-B. The SWMU location is shown in Figure 5-3.

5.3.2 Waste Characteristics

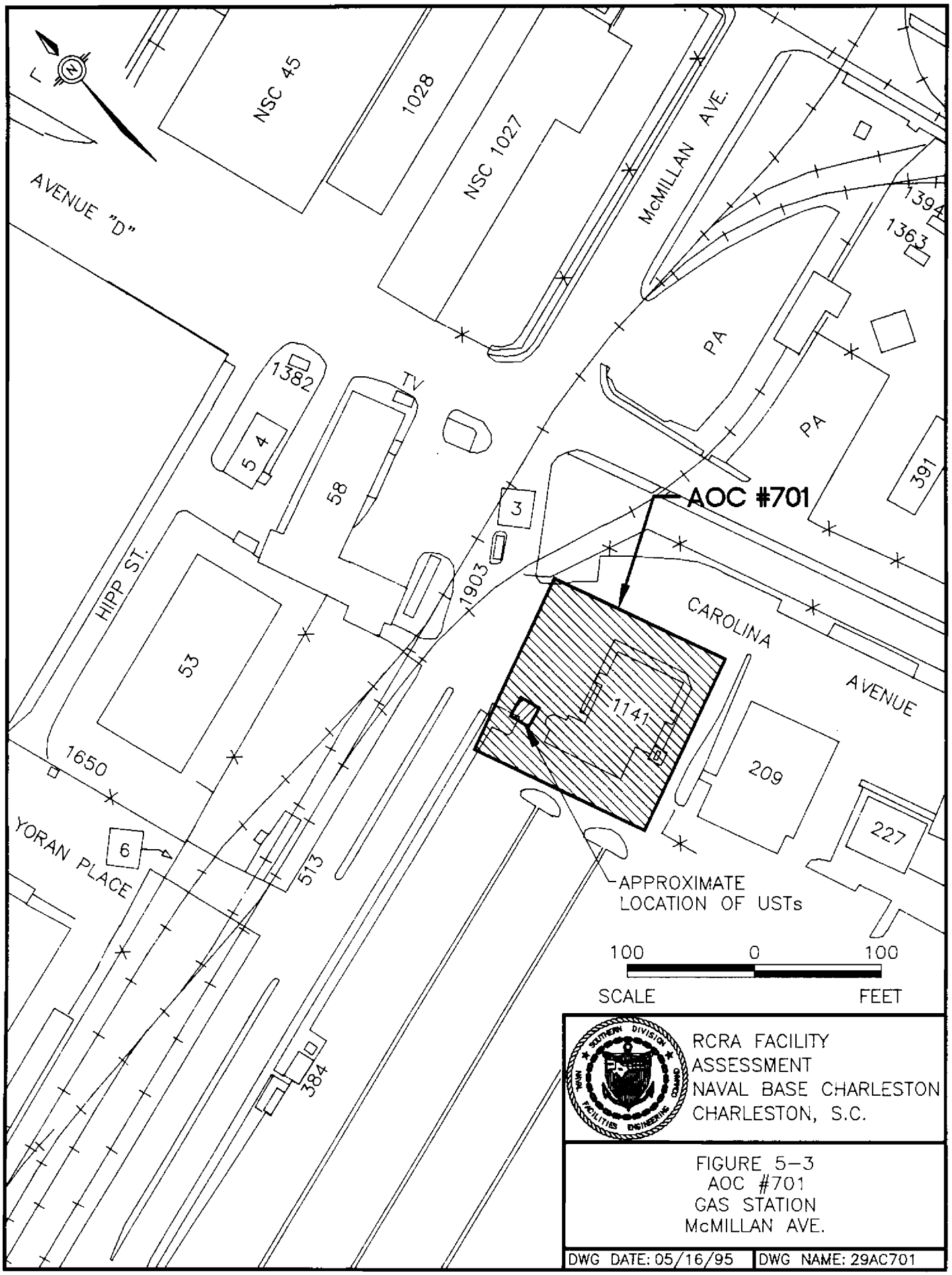
Waste materials associated with this unit include gasoline, oil, batteries, anti-freeze, and grease. The constituents of concern include metals, VOCs, acids, and petroleum hydrocarbons.

5.3.3 Migration Pathways

Soil, groundwater, surface water, sediment, air and subsurface gas are all potential migration pathways because of the USTs located at the site and the potential for leaks.

5.3.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, employee interviews, or visual observations which would indicate any release at this unit.


NSC 45
1028
NSC 1027
McMILLAN AVE.
AVENUE "D"
1394
1363
PA
PA
391
1382
TV
54
58
3
AOC #701
1903
HIPP ST.
53
CAROLINA
AVENUE
1141
1650
209
227
YORAN PLACE
6
513
APPROXIMATE
LOCATION OF USTs
100
0
100
SCALE
FEET
384
RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 5-3
AOC #701
GAS STATION
McMILLAN AVE.
DWG DATE: 05/16/95
DWG NAME: 29AC701

5.3.5 Exposure Potential

No residential areas or sensitive environments are in the vicinity of this AOC. Naval Base Charleston employees that may frequent the vicinity of the unit as well as any future users of the site.

5.3.6 Recommended Action

A CSI is recommended to determine whether or not any environmental impact has been caused by the USTs at this site.

5.4 AOC #702 — Paint Accumulation, Pier D

5.4.1 Unit Characteristics

AOC #702 consists of paint stains from former painting operations on Pier D. Pier D is constructed of concrete with several drainage holes that discharge directly into the Cooper River. Painting operations are no longer performed on the pier, but evidence of past spills exists along the entire length of the pier. The exact dates of painting operations are unknown, but according to CNSY personnel, painting operations began prior to 1973. AOC #702 is located at map coordinates L-40 on Figure 5-B. The AOC location is shown in Figure 5-4.

5.4.2 Waste Characteristics

Waste materials accumulated within this unit include spilled paint. The constituents of concern include metals and VOCs.

5.4.3 Migration Pathways

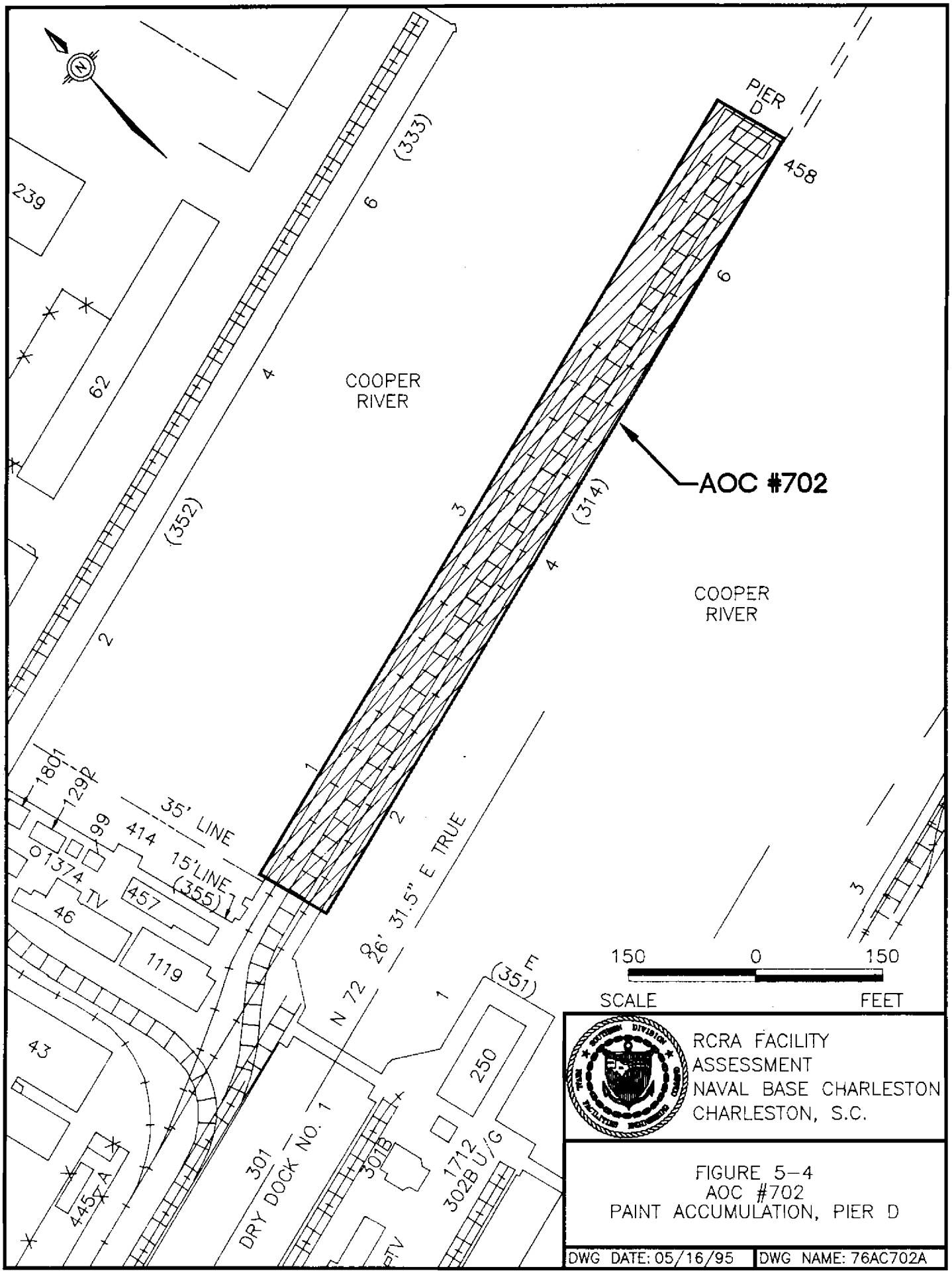
Surface water runoff and sediment are potential migration pathways for this unit. Due to the presence of VOCs, air is also considered a migration pathway for this unit. Soil, groundwater, and subsurface gas are not considered pathways because the pier projects solely into the river and contact with these media is, therefore, not possible.

5.4.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. However, paint stains were observed along the entire length of the pier during the visual site inspection. Some of the stains are adjacent to the pier drains and suggest that spilled paint has been released to the Cooper River.

5.4.5 Exposure Potential

Due to the proximity of this unit to the Cooper River and drainage holes along the pier, potential exposure would be possible for ecological receptors in the Cooper River through uncontrolled



RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 5-4
AOC #702
PAINT ACCUMULATION, PIER D

DWG DATE: 05/16/95 | DWG NAME: 76AC702A

surface water runoff. No residential areas are in the vicinity of this AOC. Due to the limited access to this AOC, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the AOC and future users of the site.

5.4.6 Recommended Action

A CSI is recommended to characterize the areas of spilled paint. Any releases that may have occurred to the Cooper River will be addressed as part of the Zone J investigation of ecological receptors and water bodies at Naval Base Charleston.

5.5 AOC #703 — Paint Accumulation, Pier F

5.5.1 Unit Characteristics

AOC #703 consists of paint stains from former painting operations on Pier F. Pier F is constructed of concrete and projects out over the Cooper River. Painting operations are no longer performed on the pier, but evidence of past spills exists in an area along the northern quaywall. The exact dates of painting operations are unknown, but according to CNSY personnel, painting operations began prior to 1973. AOC #703 is located at map coordinates K-39 on Figure 5-B. The AOC location is shown in Figure 5-5.

5.5.2 Waste Characteristics

Waste materials accumulated within this unit include spilled paint. The constituents of concern include metals and VOCs.

5.5.3 Migration Pathways

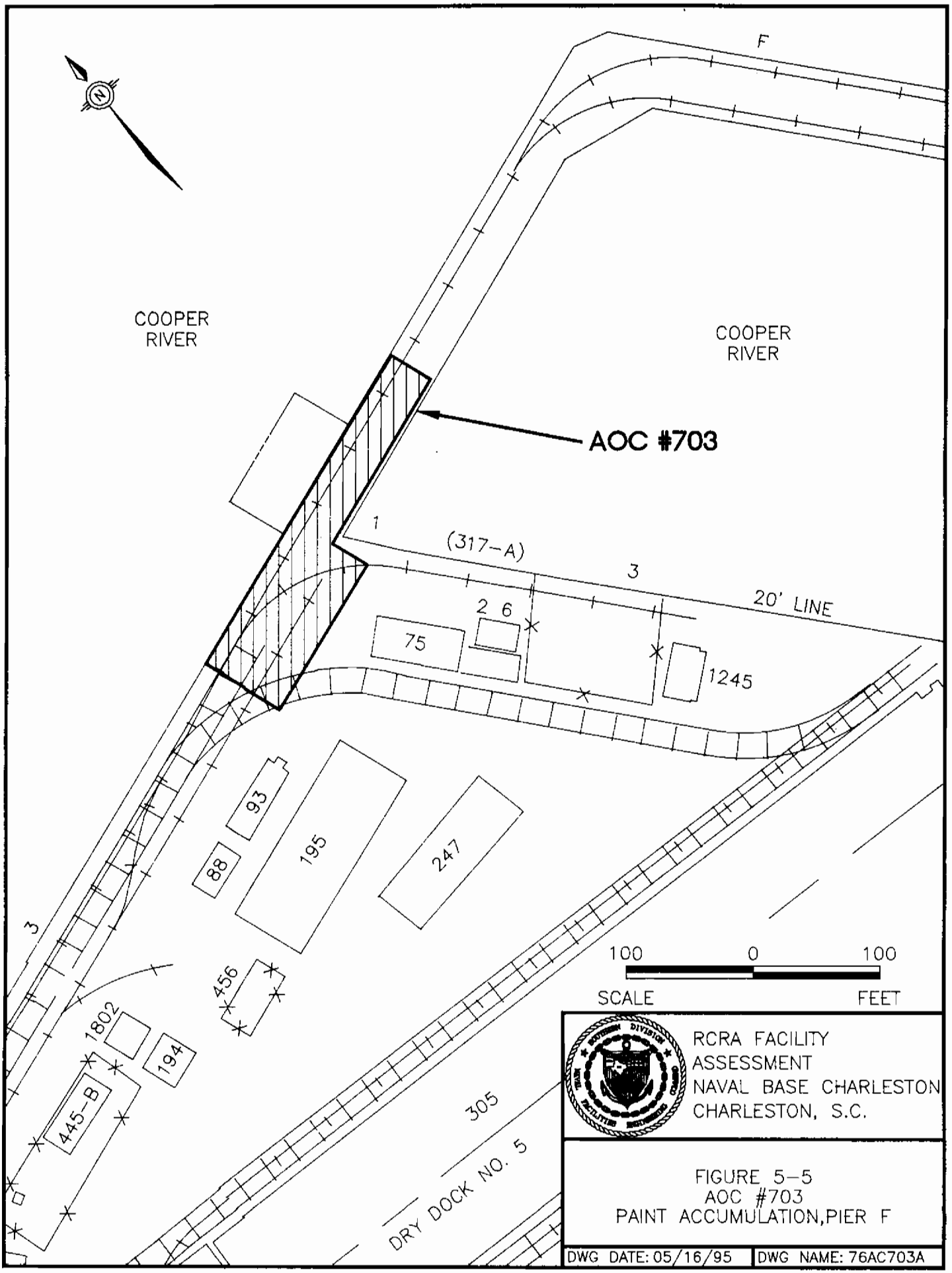
Surface water runoff and sediment are potential migration pathways for this unit. Due to the presence of VOCs, air is also considered a migration pathway for this unit. Soil, groundwater, and subsurface gas are not considered pathways because the pier projects solely into the river and contact with these media is, therefore, not possible.

5.5.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. However, paint stains were observed during the visual site inspection along a section of the pier where painting operations were conducted.

5.5.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through uncontrolled surface water runoff. No residential areas are in the vicinity of this AOC. Due to the limited access to this AOC, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the AOC and future users of the site.


F
COOPER RIVER
COOPER RIVER
AOC #703
1
(317-A)
3
20' LINE
2 6
75
1245
93
88
195
247
3
456
1802
194
445-B
305
DRY DOCK NO. 5
100 0 100
SCALE FEET
RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 5-5
AOC #703
PAINT ACCUMULATION,PIER F
DWG DATE: 05/16/95
DWG NAME: 76AC703A

5.5.6 Recommended Action

A CSI is recommended to characterize the areas of spilled paint. Any releases that may have occurred to the Cooper River will be addressed as part of the Zone J investigation of ecological receptors and water bodies at Naval Base Charleston.

5.6 AOC #704 — Paint Accumulation, Building 301B

5.6.1 Unit Characteristics

AOC #704 consists of paint spills on the concrete surface west of Building 301B. These spills are the result of painting operations conducted in the past on nearby piers. The concrete surface is in poor condition with several cracks exposing the underlying soil. The exact dates of painting operations at the nearby piers are unknown, but according to CNSY personnel, painting operations began prior to 1973. AOC #704 is located at map coordinates H-40 on Figure 5-B. The AOC location is shown in Figure 5-6.

5.6.2 Waste Characteristics

Waste materials accumulated within this unit include spilled paint. The constituents of concern include metals and VOCs.

5.6.3 Migration Pathways

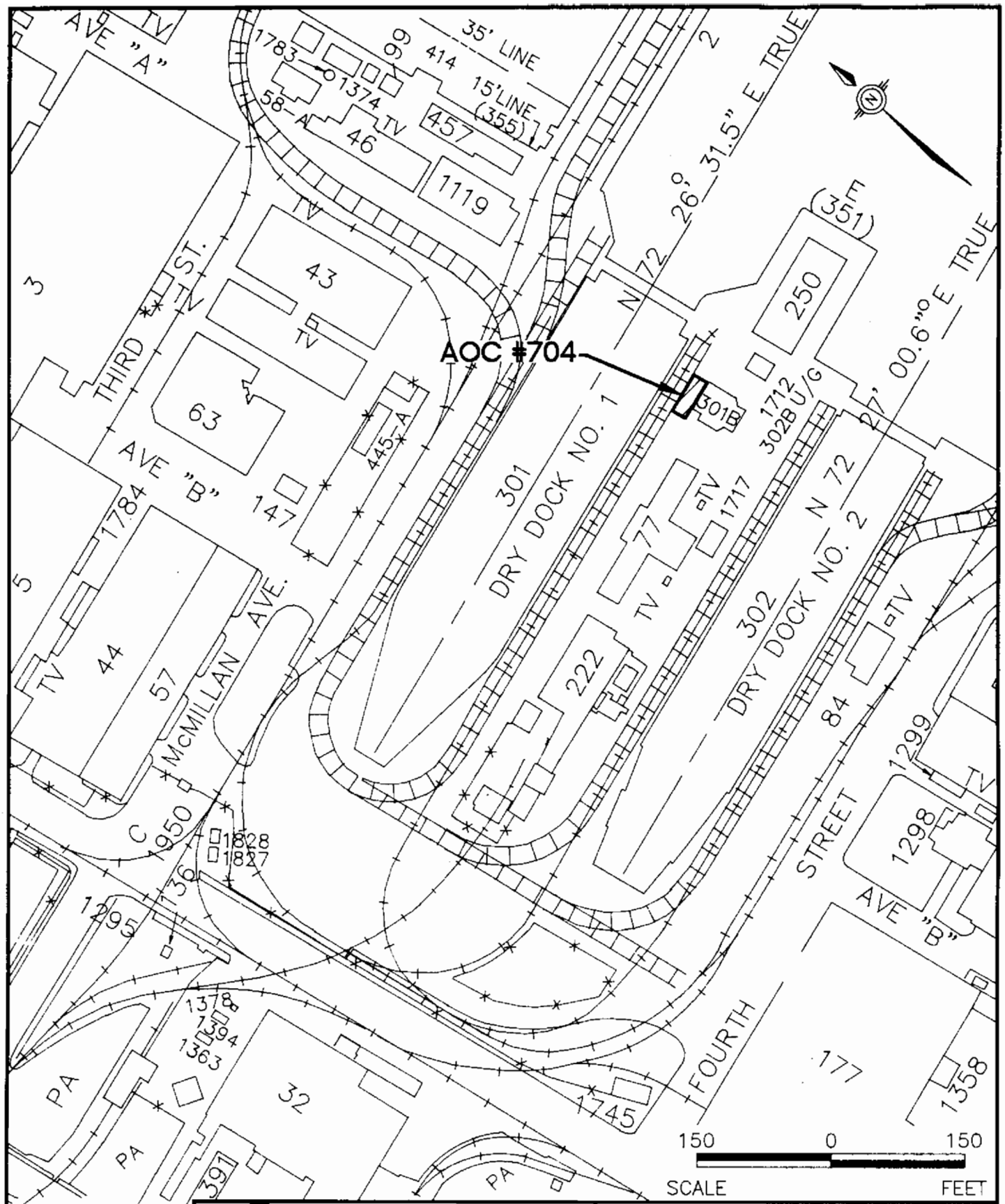
Due to the proximity of the Cooper River and the mobility of the volatile constituents, surface water and air are both potential pathways of this AOC. Soil, groundwater, and subsurface gas are also potential migration pathways because of cracks in the asphalt/concrete surface surrounding this AOC.

5.6.4 Evidence of Release

The preliminary review found no spill reports, inspection reports, or employee interviews which would indicate any release at this unit. However, paint stains were observed on the west side of Building 301B during the visual site inspection. Some of the stains suggest that paint has spilled directly adjacent to the drains and discharged to the Cooper River.

5.6.5 Exposure Potential

Due to the proximity of this unit to the Cooper River, potential exposure would be possible for ecological receptors in the Cooper River through uncontrolled surface water runoff. No



RCRA FACILITY
ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

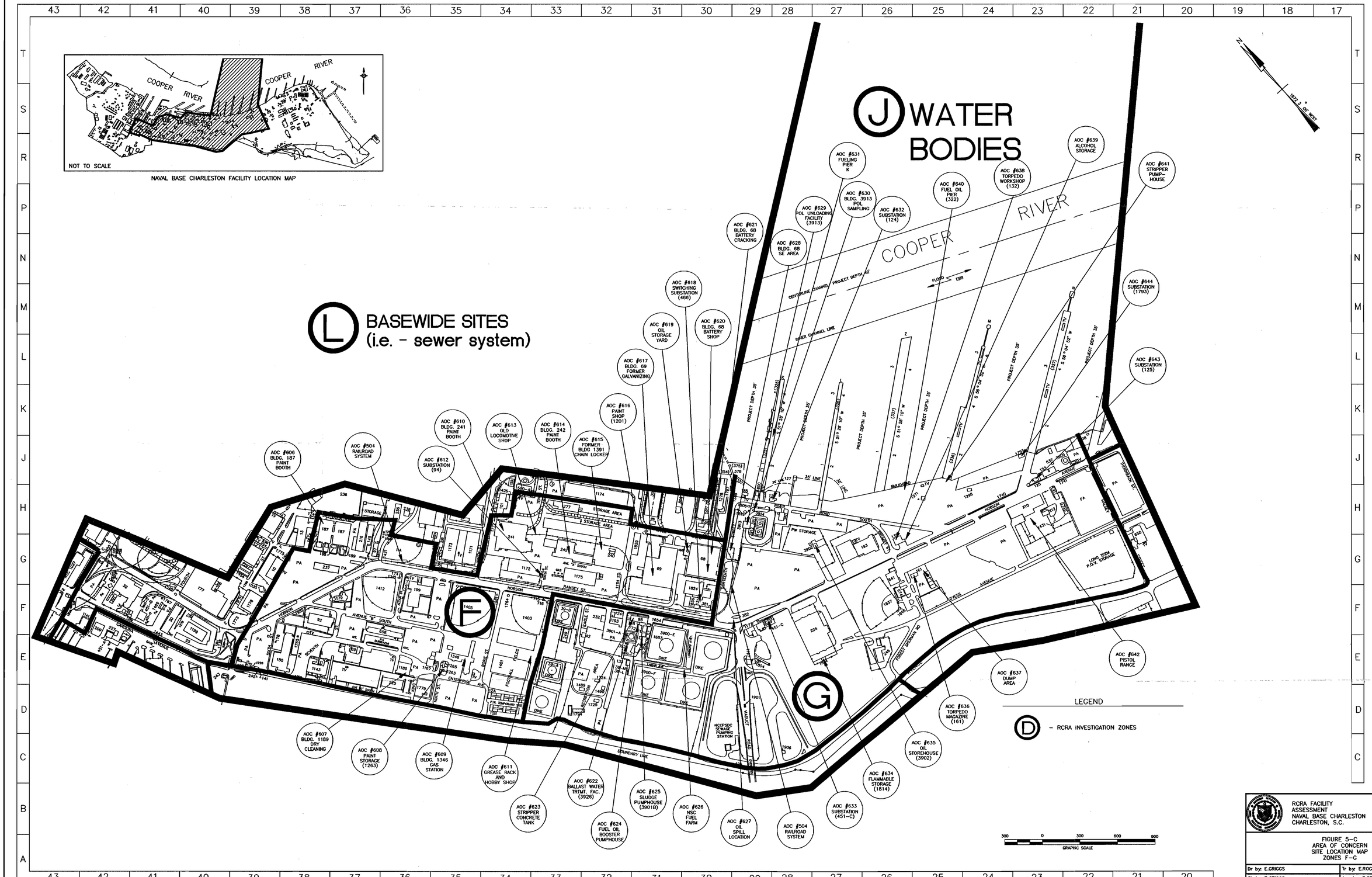
FIGURE 5-6
AOC #704
PAINT ACCUMULATION, BUILDING 301B

DWG DATE: 05/16/95 | DWG NAME: 76AC704A

residential areas are in the vicinity of this AOC. Due to the limited access to this AOC, exposure potential is limited to Naval Base Charleston personnel that may frequent the vicinity of the AOC and future users of the site.

5.6.6 Recommended Action

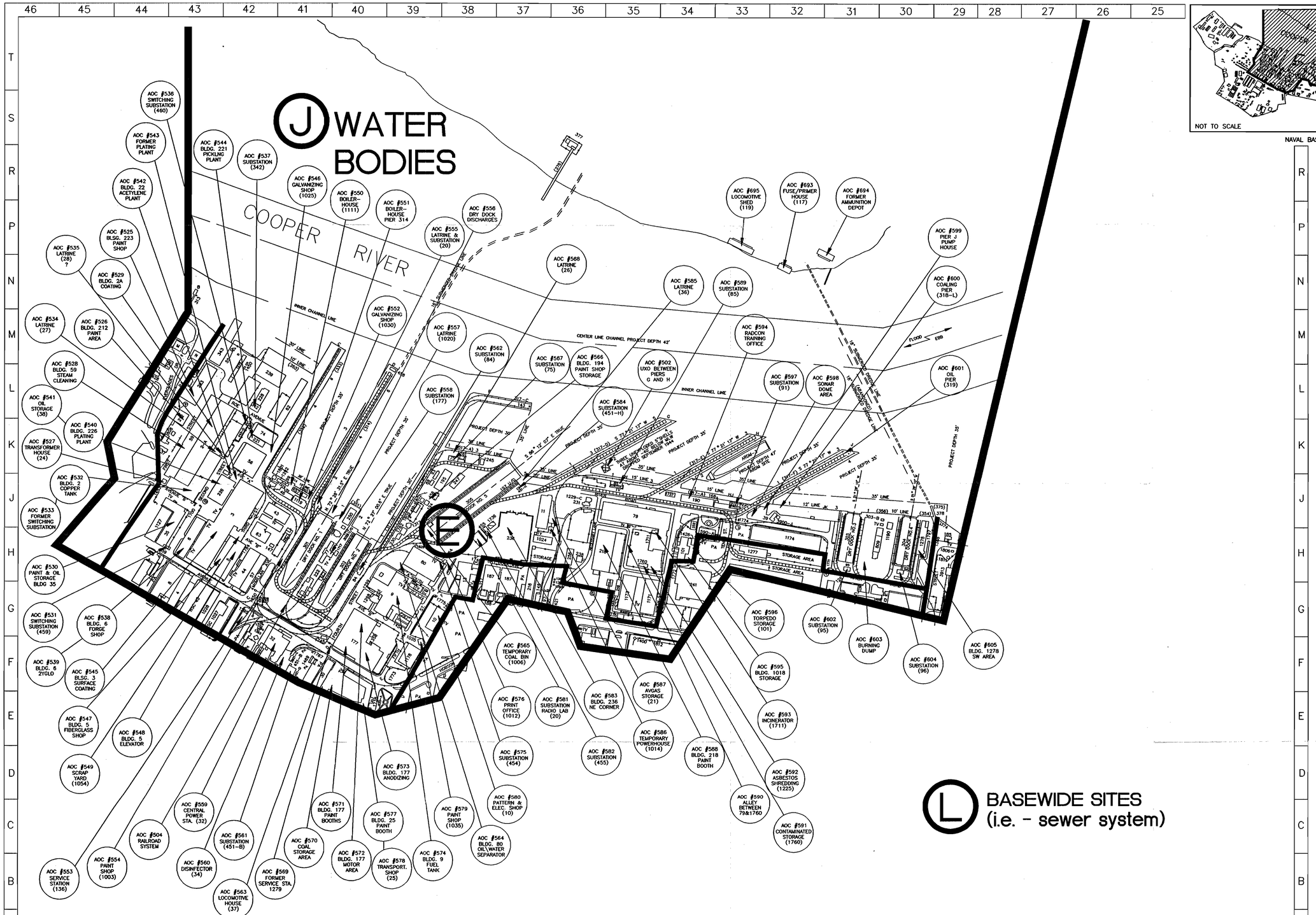
A CSI is recommended to characterize the areas of spilled paint. Any releases that may have occurred to the Cooper River will be addressed as part of the Zone J investigation of ecological receptors and water bodies at Naval Base Charleston.

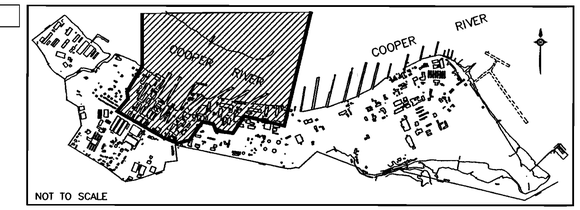


RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 5-C
AREA OF CONCERN
SITE LOCATION MAP
ZONES F-G

Dr by: E.GRIGGS	Tr by: E.ROGERS	
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet 1
Date: 02/23/95	DWG Name: 76SR0V3A	Of 1





NAVAL BASE CHARLESTON FACILITY LOCATION MAP

LEGEND

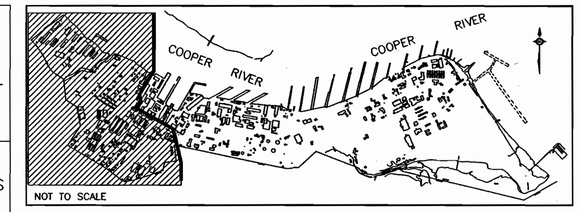
D – RCRA INVESTIGATION ZONES

300 0 300 600 900
GRAPHIC SCALE

RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 5-B
AREA OF CONCERN
SITE LOCATION MAP
ZONE E

Dr by: E.GRIGGS	Tr by: E.ROGERS	
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet 1
Date: 02/23/95	DWG Name: 76SROV2A	Of 1



NAVAL BASE CHARLESTON FACILITY LOCATION MAP

LEGEND

D – RCRA INVESTIGATION ZONES

300 0 300 600 900
GRAPHIC SCALE

RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 5-A
AREA OF CONCERN
SITE LOCATION MAP
ZONES A-D

Dr by: E.GRIGGS	Tr by: E.ROGERS	
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet 1
Date: 02/23/95	DWG Name: 76SR01A	Of 1

LEGEND

D – RCRA INVESTIGATION ZONES

J WATER BODIES

COOPER RIVER

AOC #665 PYROTECHNIC STORAGE (159)
AOC #664 TRANSFORMER VAULT (433A)
AOC #663 GAS/DIESEL PUMPING (851)
AOC #659 DIESEL STORAGE (14)
AOC #673 PAINT AND OIL STORAGE (169)
AOC #672 SUBSTATION (126)
AOC #658 GAS STORAGE (203)
AOC #677 BLDG. NS-2 GROUNDS
AOC #674 PAINT STORAGE (RTC4)
AOC #660 MOQUITO CONTROL (31)
AOC #671 METER HOUSE (3905G)
AOC #652 BLDG. 636 SPRAY BOOTH
AOC #675 FUEL OIL STORAGE (NS-4)
AOC #676 INCINERATOR
AOC #678 FIRE FIGHTING SCHOOL (2-V)
AOC #692 FREE OIL AREAS IN RIVER
AOC #500 UXO SITE BETWEEN PIERS SANDI
AOC #679 WASH RACK
AOC #680 BLDG. NS-26 NE SIDE
AOC #681 BLDG. 681 BLAST BOOTH
AOC #682 BLDG. 681 SPRAY BOOTH
AOC #691 WATER FRONT
AOC #683 TRANSFORMER VAULT
AOC #666 FUEL STORAGE (NS-45)
AOC #667 CBU-412 VEHICLE AREA
AOC #668 HAZ MAT STORAGE (1899)
AOC #685 SMOKE DRUM (157)
AOC #684 OLD PISTOL RANGE (1888)
AOC #669 BLDG. 1888 RANGE
AOC #670 FIELD SOUTH OF BLDG. 1897
AOC #686 HIGH EXPLOSIVES STG. (54)
AOC #687 HIGH EXPLOSIVES STG. (55)
AOC #688 HIGH EXPLOSIVES STG. (56)
AOC #501 UXO SITE IN COOPER RIVER
AOC #689 SOUTHERN TIP OF BASE
AOC #690 SPOILS AREA ROAD
AOC #662 BLDG. NS-54 GAS STATION
AOC #661 EXPLOSIVES STORAGE
AOC #656 BETWEEN BLDGS. 602 & NS-71
AOC #503 UXOSITE SOUTH OF BLDG. 665
AOC #655 OIL SPILL BEHIND EXCHANGE
AOC #654 SEPTIC TANK AND DRAIN FIELD
AOC #657 ENGINE OVERHAUL FAC. (645)
AOC #649 BRASWELL SHIPYARDS STORAGE
AOC #648 TRANSFORMER VAULT
AOC #650 METAL TRADES, INC. STORAGE
AOC #651 SANDBLASTERS, INC. STORAGE
AOC #653 BLDG. 1508 MWR HOBBY SHOP

H

I

DREDGED MATERIALS AREA

ABANDONED SUBSURFACE CHEMICAL DISPOSAL AREA

TWO MARK-17 DEPTH BOMBS JETTISONED 8 OCTOBER 1943

TWO 3M MINE & 2 TORPEDO LOCKED DEPTH BOMBS JETTISONED IN THIS AREA 20 NOVEMBER 1943

L BASEWIDE SITES (i.e. - sewer system)

SHIPYARD

RIVER

BOUNDARY LINE

MATCH LINE

NAVAL BASE CHARLESTON FACILITY LOCATION MAP

NOT TO SCALE

GRAPHIC SCALE 300 0 300 600 900

RCRA FACILITY ASSESSMENT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 5-D
AREA OF CONCERN
SITE LOCATION MAP
ZONES H-J

Dr by: E.GRIGGS	Tr by: E.ROGERS	
Ck by: E.GRIGGS	App by: E.GRIGGS	Sheet 1
Date: 02/23/95	DWG Name: 76SR0V4A	Of 1

6.0 SIGNATORY REQUIREMENT

Condition I.E. of the HSWA portion of RCRA Part B Permit (EPA SCO 170 022 560) states that "All applications, reports, or information submitted to the Regional Administrator shall be signed and certified in accordance with 40 CFR §270.11." The certification reads as follows:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Commander,
Charleston Naval Shipyard

6/6/95
Date