N61165.AR.003208
CNC CHARLESTON
5090.3a

DRAFT ZONE E RESOURCE CONSERVATION AND RECOVERY FACILITY INVESTIGATION REPORT VOLUME VI OF XV APPENDICES J TO M CNC CHARLESTON SC
11/1/1997
ENSAFE

DRAFT ZONE E
RCRA FACILITY INVESTIGATION REPORT
NAVBASE CHARLESTON

VOLUME XV OF XV
APPENDICES J – M

CTO-029
CONTRACT NO: N62467-89-D-0318

Prepared for:

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

Prepared by:

EnSafe Inc.
5724 Summer Trees Drive
Memphis, Tennessee 38134
(901) 372-7962

November 1997

Appendix J

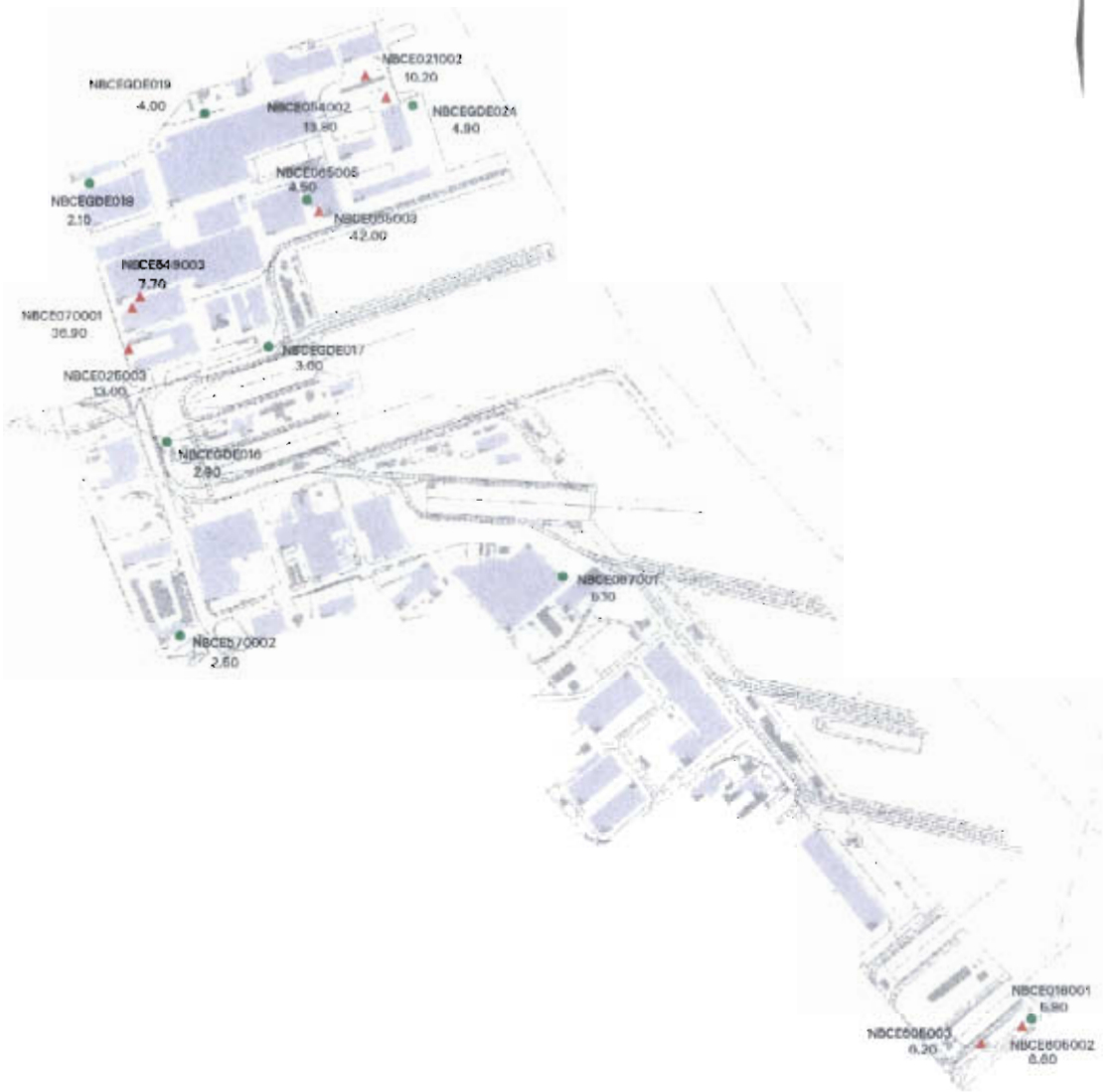
Terrestrial Species List

Charleston Naval Base Terrestrial Species List	
Common Name	**Scientific Name**
Raccoon	*Procyon lotor*
Opossum	*Didelphis virginiana*
Grey fox	*Urocyon cinereoargenteus*
Grey squirrel	*Sciurus carolinensis*
Fox squirrel	*S. niger*
Eastern cottontail	*Sylvilagus floridanus*
Marsh rabbit	*S. palustris*
Golden mouse	*Ochrotomys nuttalli*
Short-tailed shrew	*Blarina brevicauda*
Northern diamond back terrapin	*Malaclemy terrapin terrapin*
Green anole	*Anolis carolinensis*
Broad-headed skink	*Eumeces laticeps*
Eastern garter snake	*Thamnophis sirtalis*
Southern leopard frog	*Rana utricularia*
American robin	*Turdus migratorius*
Northern cardinal	*Cardinalis cardinalis*
Purple finch	*Carpadacus prpureus*
Fish crow	*Corvus ossifragus*
European starling	*Sturnus vulgaris*
Gulls	*Larus* spp.
Carolina chickadee	*Parus carolinensis*
Northern junco	*Junco hyemalis*
Eastern kingbird	*Tyrannus tyrannus*
Eastern meadowlark	*Sturnella magna*
Northern mockingbird	*Mimis polyglottis*
Barn swallow	*Hirundo rustica*
Red-tailed hawk	*Buteo jamaicensis*
American kestrel	*Falco sparverius*
Clapper rail	*Rallus longirostis*
Boat-tailed grackle	*Quiscalus major*

Charleston Naval Base Terrestrial Species List	
Common Name	**Scientific Name**
Red-winged blackbird	*Agelaius phoeniceus*
Herons, egrets, bitterns	Family Ardeadae
Plovers	*Chardrius* spp.
Curlews	*Numenium* spp.
Sandpipers	*Tringa* spp. and *Calidris* spp.
Terns	*Sterna* spp.
Brown pelican	*Pelecanus occidentalis*
Osprey	*Pandion halieatus*

Appendix K

Zone-Wide and Site-Specific Color-Coded Figures Posting Results and Exceedance Tables



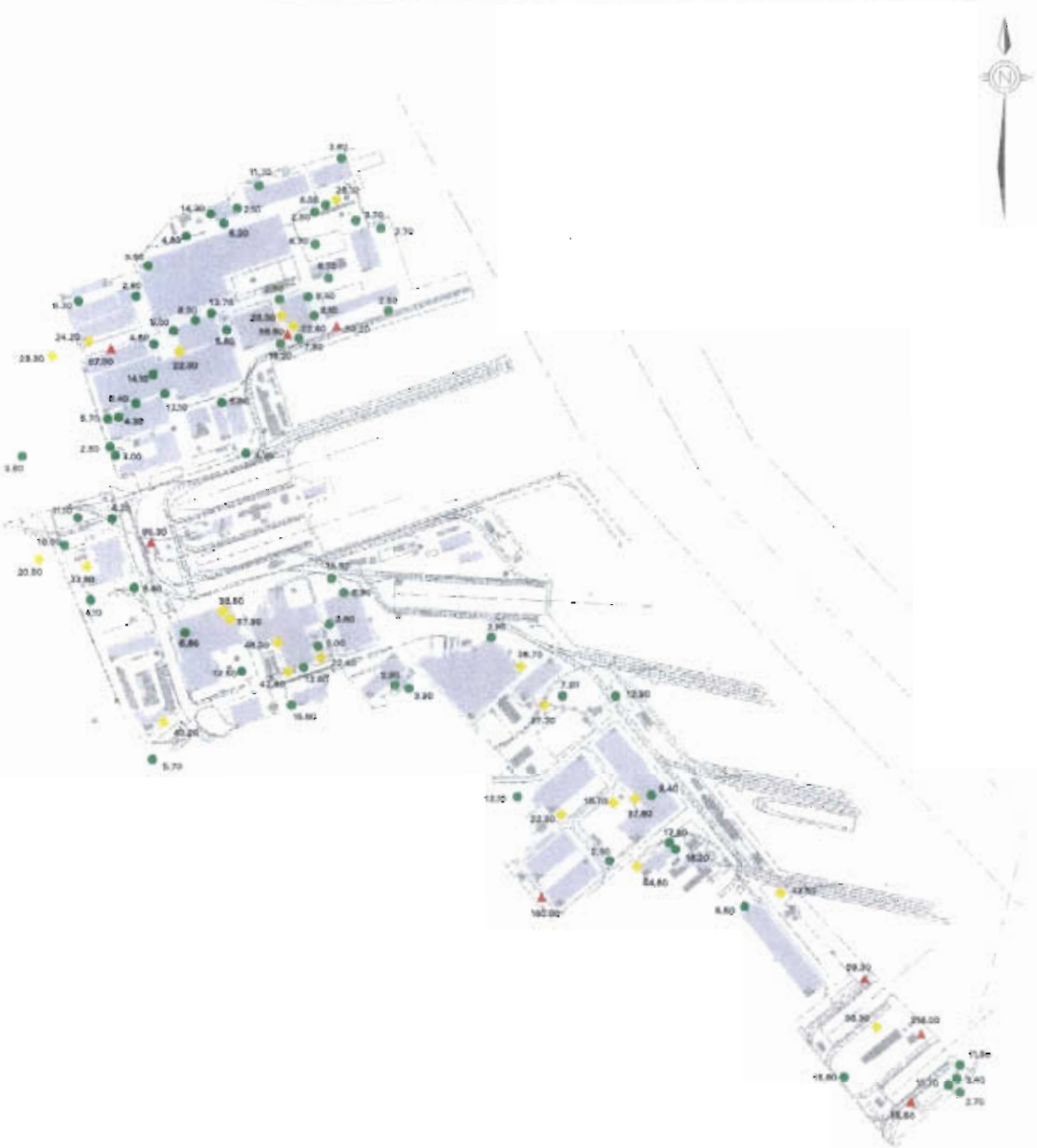
● < MCL (6 ug/L)

▲ > MCL (6 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

ANTIMONY
IN SHALLOW GROUNDWATER



● < UTL (18.7 ug/L)

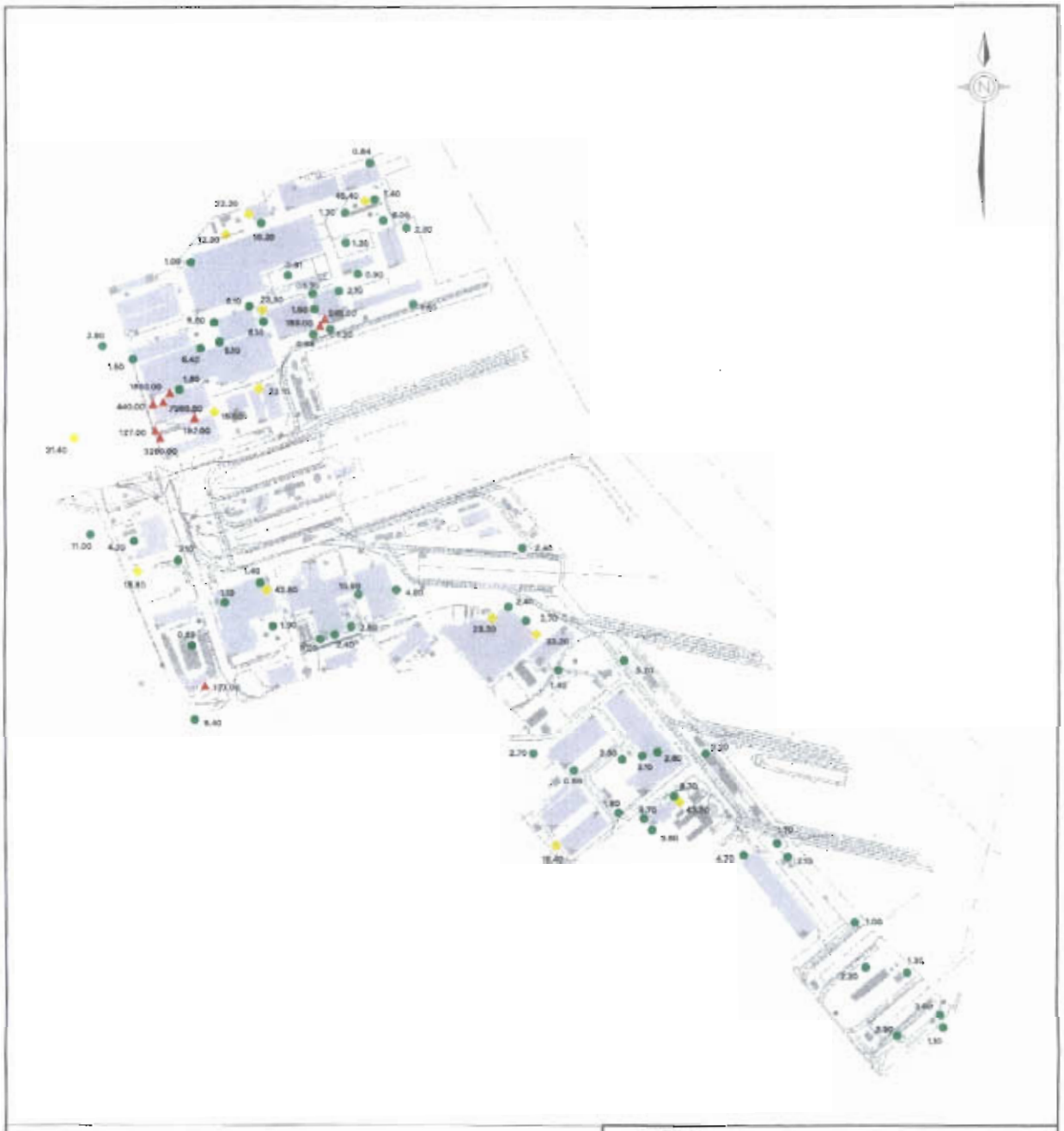
● > UTL (18.7 ug/L) < MCL (50 ug/L)

▲ > MCL (50 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

ARSENIC
IN SHALLOW GROUNDWATER

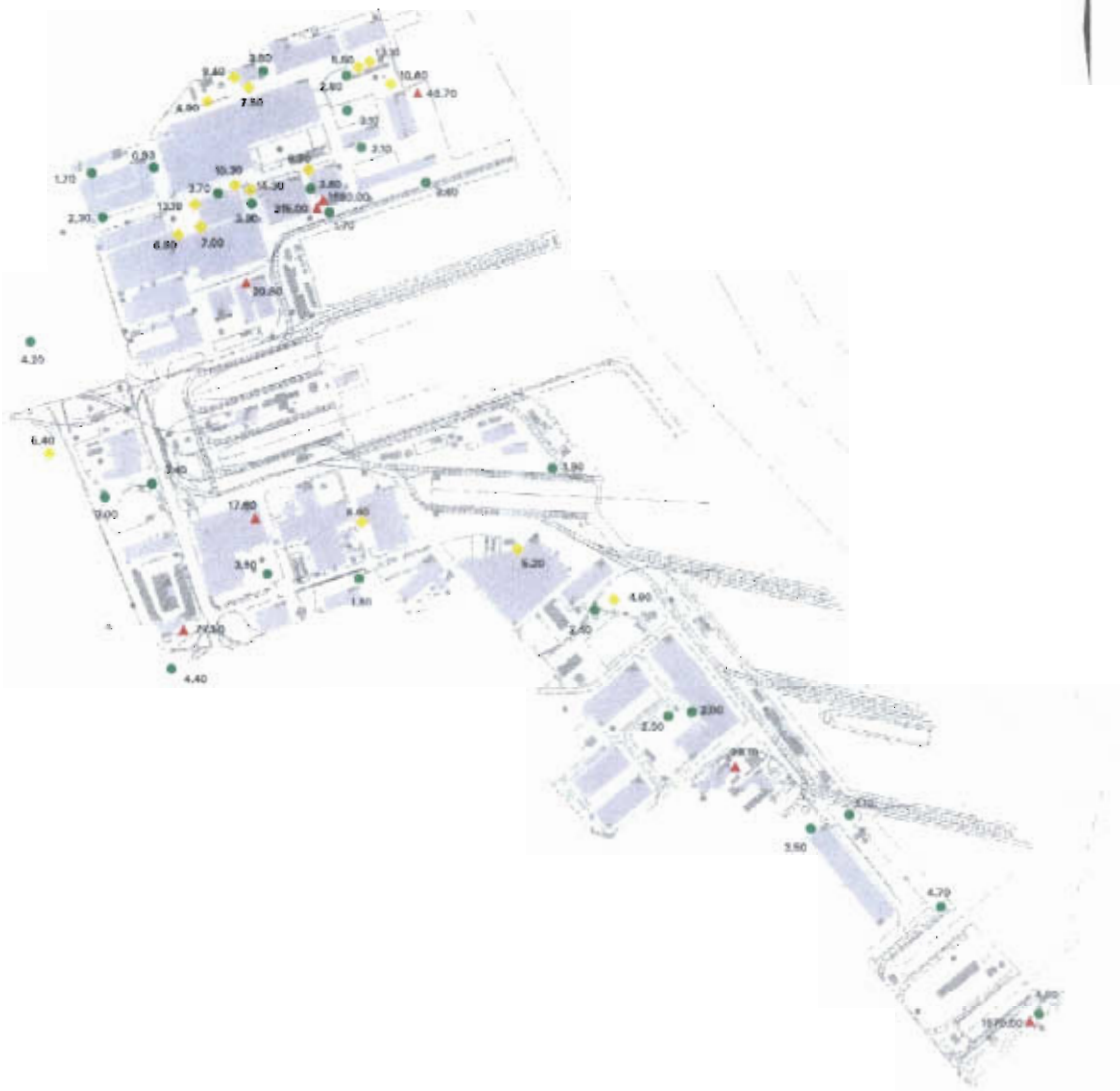


- < UTL (12.3 ug/L)
- > UTL (12.3 ug/L) < MCL (100 ug/L)
- > MCL (100 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

CHROMIUM
IN SHALLOW GROUNDWATER



● < UTL (4.8 ug/L)

◆ > UTL (4.8 ug/L) < MCL (15 ug/L)

▲ > MCL (15 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

LEAD
IN SHALLOW GROUNDWATER

● < UTL (2 ug/L)

▲ > MCL (2 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

THALLIUM
IN SHALLOW GROUNDWATER

● < MCL (5 ug/L)

▲ > MCL (5 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

TETRACHLOROETHYLENE
IN SHALLOW GROUNDWATER

● < MCL (5 ug/L)

▲ > MCL (5 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

TRICHLOROETHENE
IN SHALLOW GROUNDWATER

● < MCL (2 ug/L)

▲ > MCL (2 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

VINYL CHLORIDE
IN SHALLOW GROUNDWATER

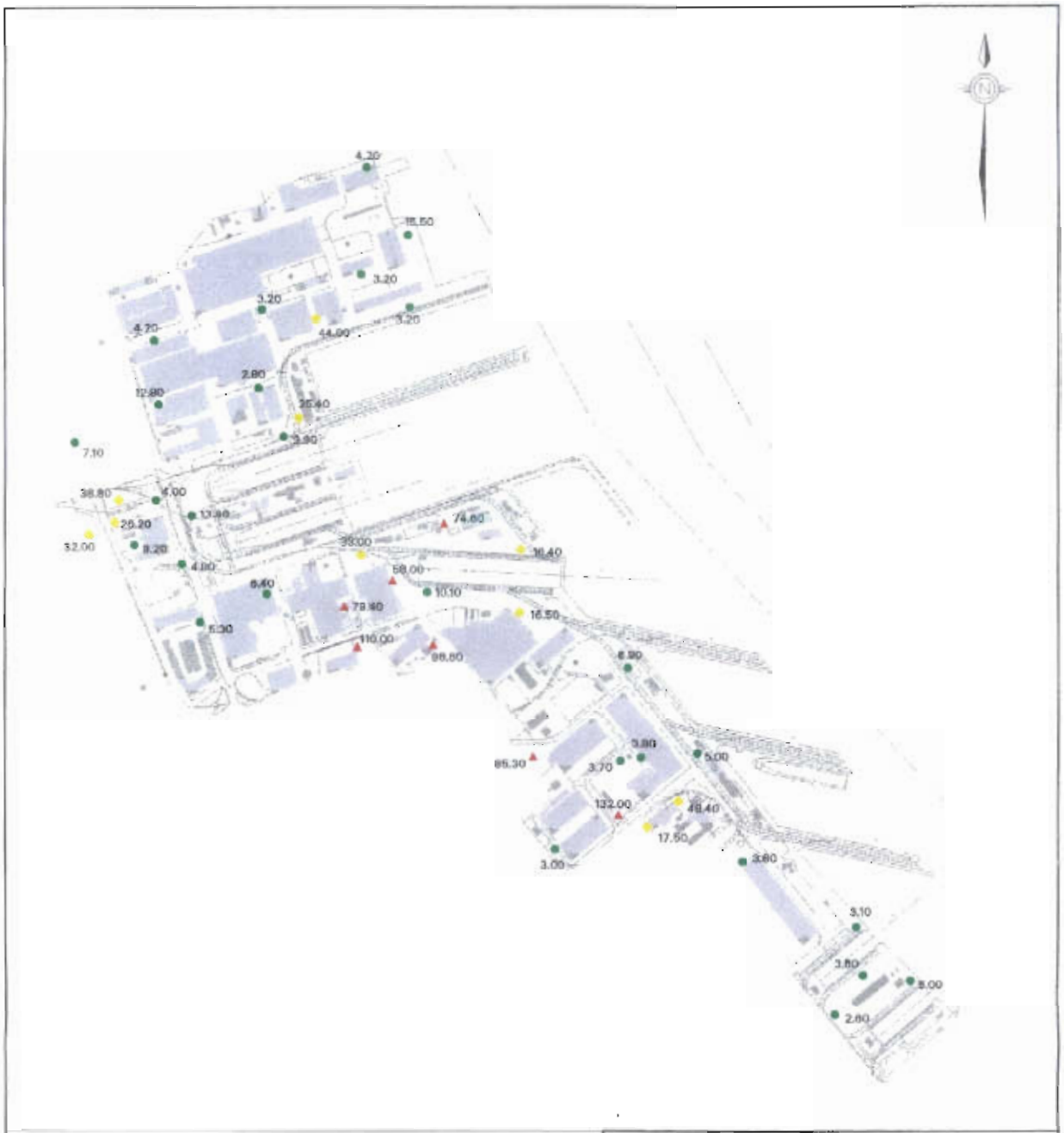
● < MCL (6 ug/L)

▲ > MCL (6 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

ANTIMONY
IN DEEP GROUNDWATER



● < UTL (16.4 ug/L)

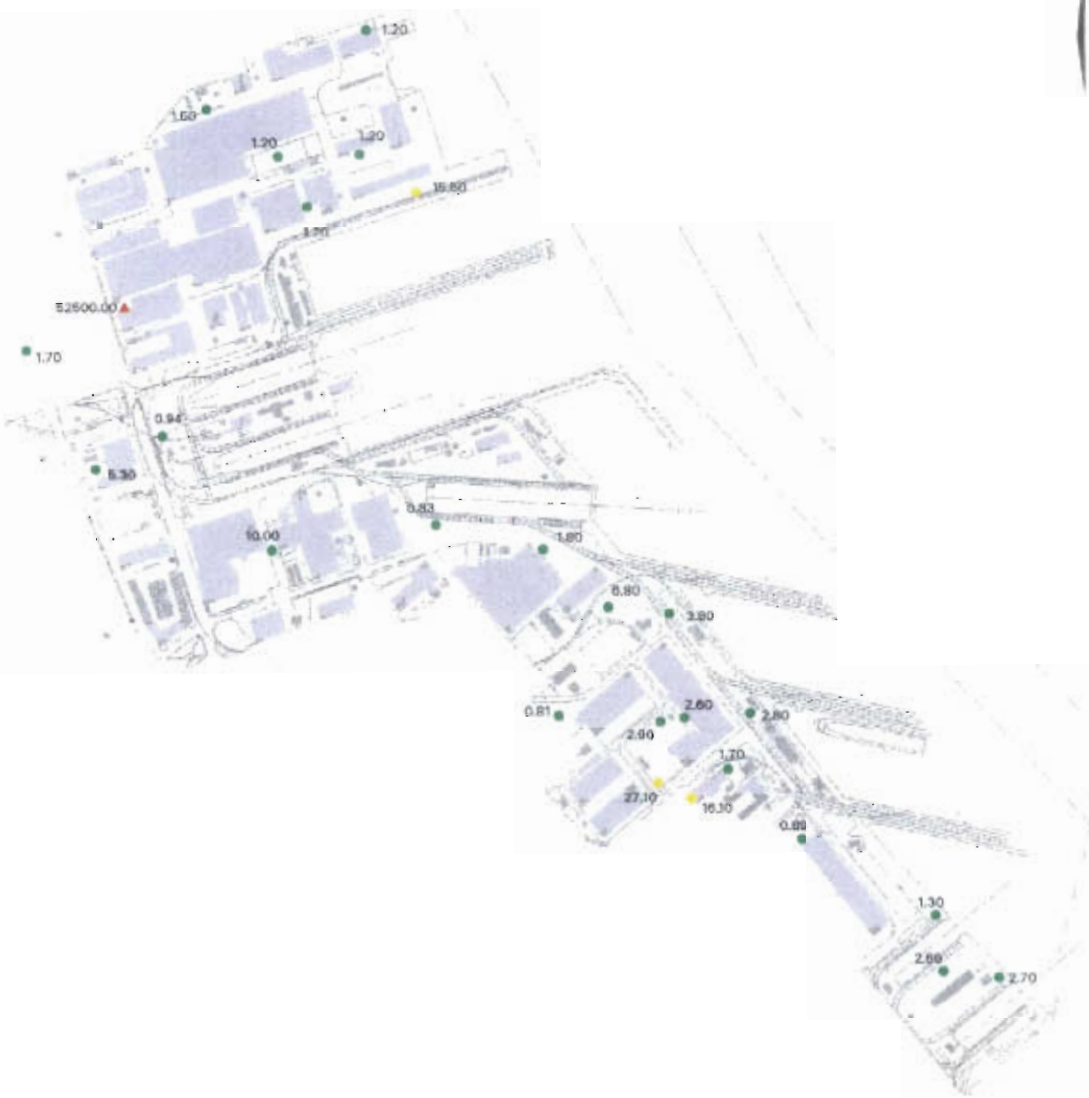
● > UTL (16.4 ug/L) < MCL (50 ug/L)

▲ > MCL (50 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

ARSENIC
IN DEEP GROUNDWATER



● < UTL (15.5 ug/L)

● > UTL (15.5 ug/L) < MCL (100 ug/L)

▲ > MCL (100 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

CHROMIUM
IN DEEP GROUNDWATER

● < UTL (2 ug/L)

▲ > MCL (2 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

THALLIUM
IN DEEP GROUNDWATER

● < MCL (5 ug/L)

▲ > MCL (5 ug/L)

0 Feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

TETRACHLOROETHYLENE
IN DEEP GROUNDWATER

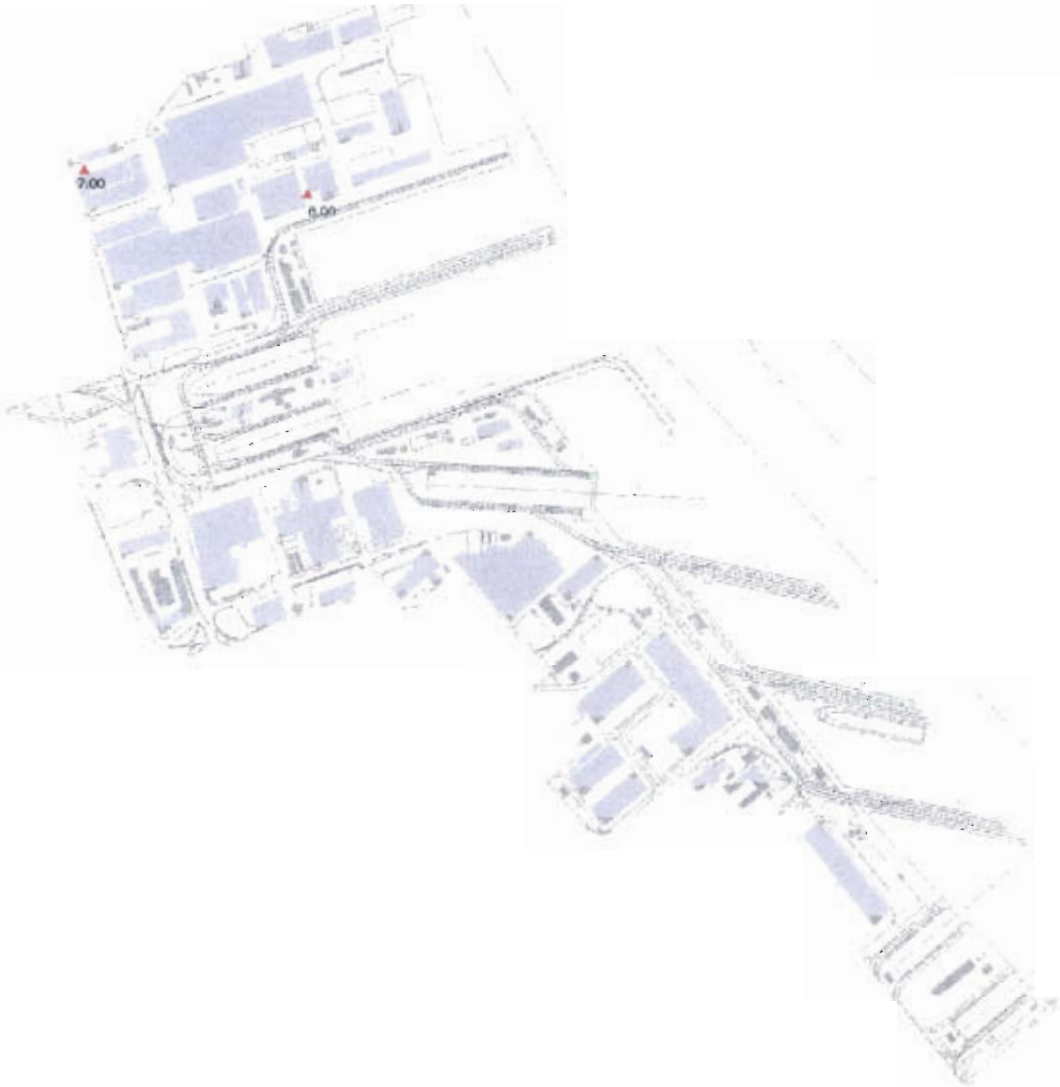
● < MCL (5 ug/L)

▲ > MCL (5 ug/L)

0 feet 1400

ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

TRICHLOROETHENE
IN DEEP GROUNDWATER



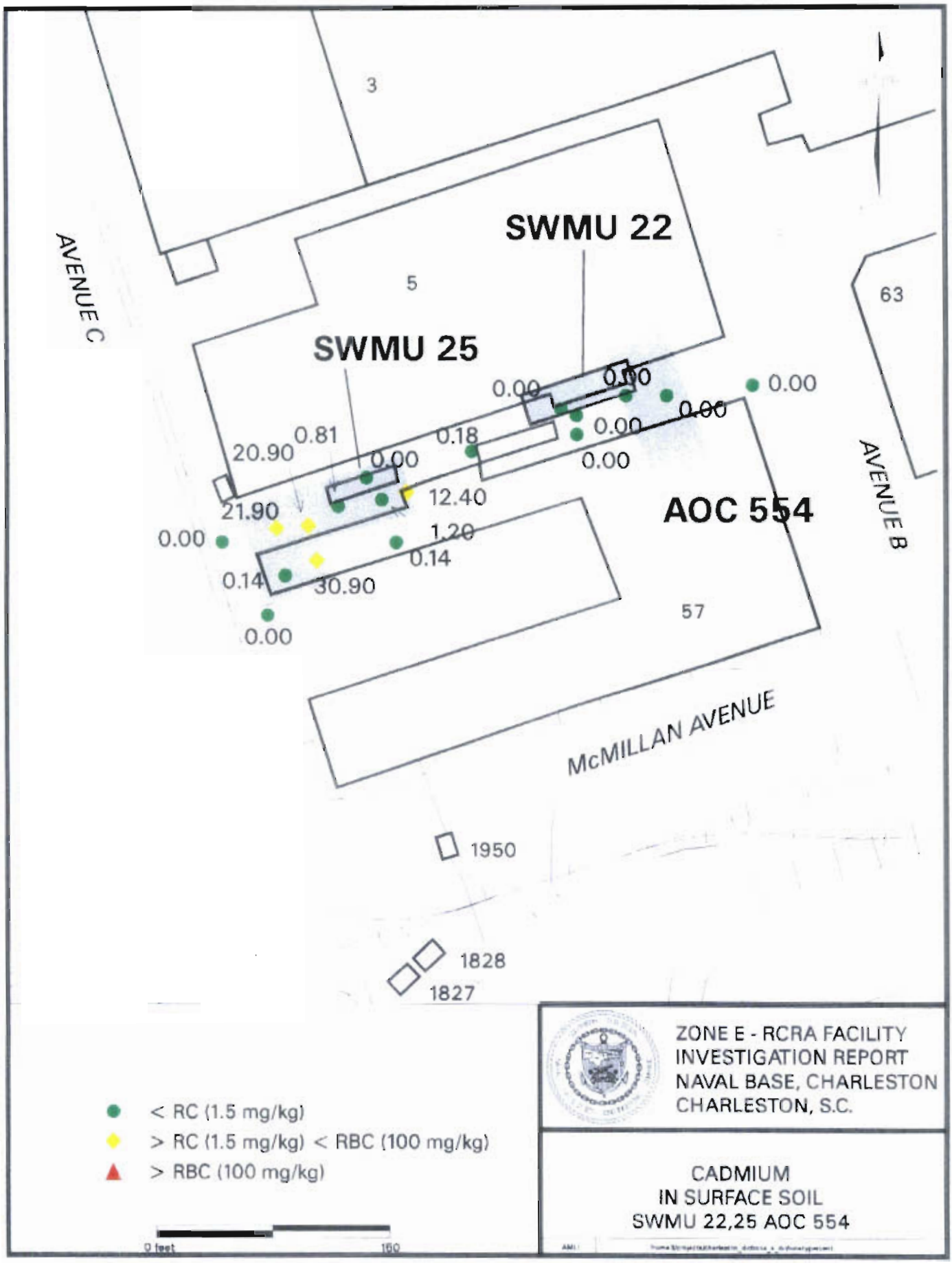
● < MCL (2 ug/L)

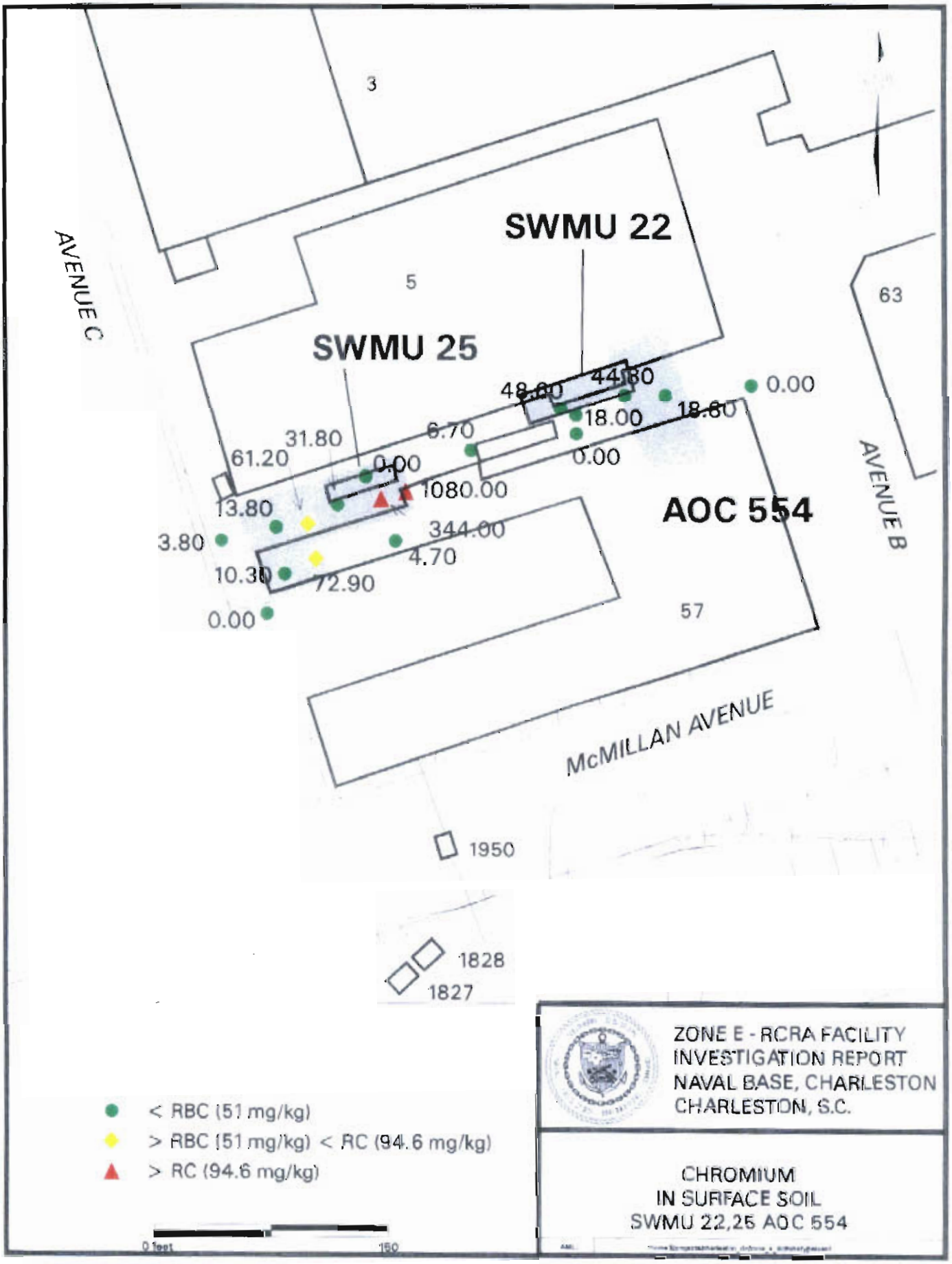
▲ > MCL (2 ug/L)

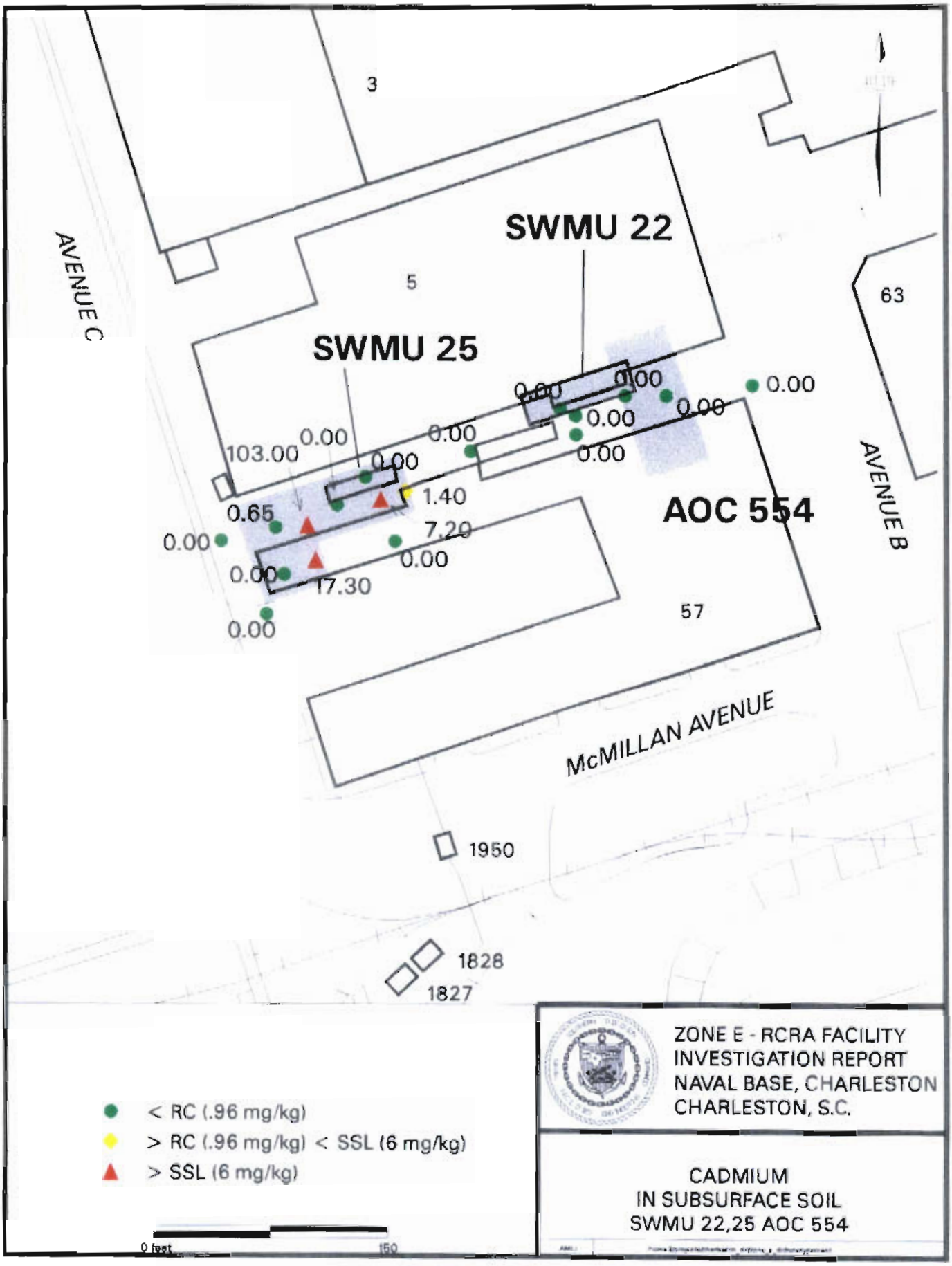
0 feet 1400

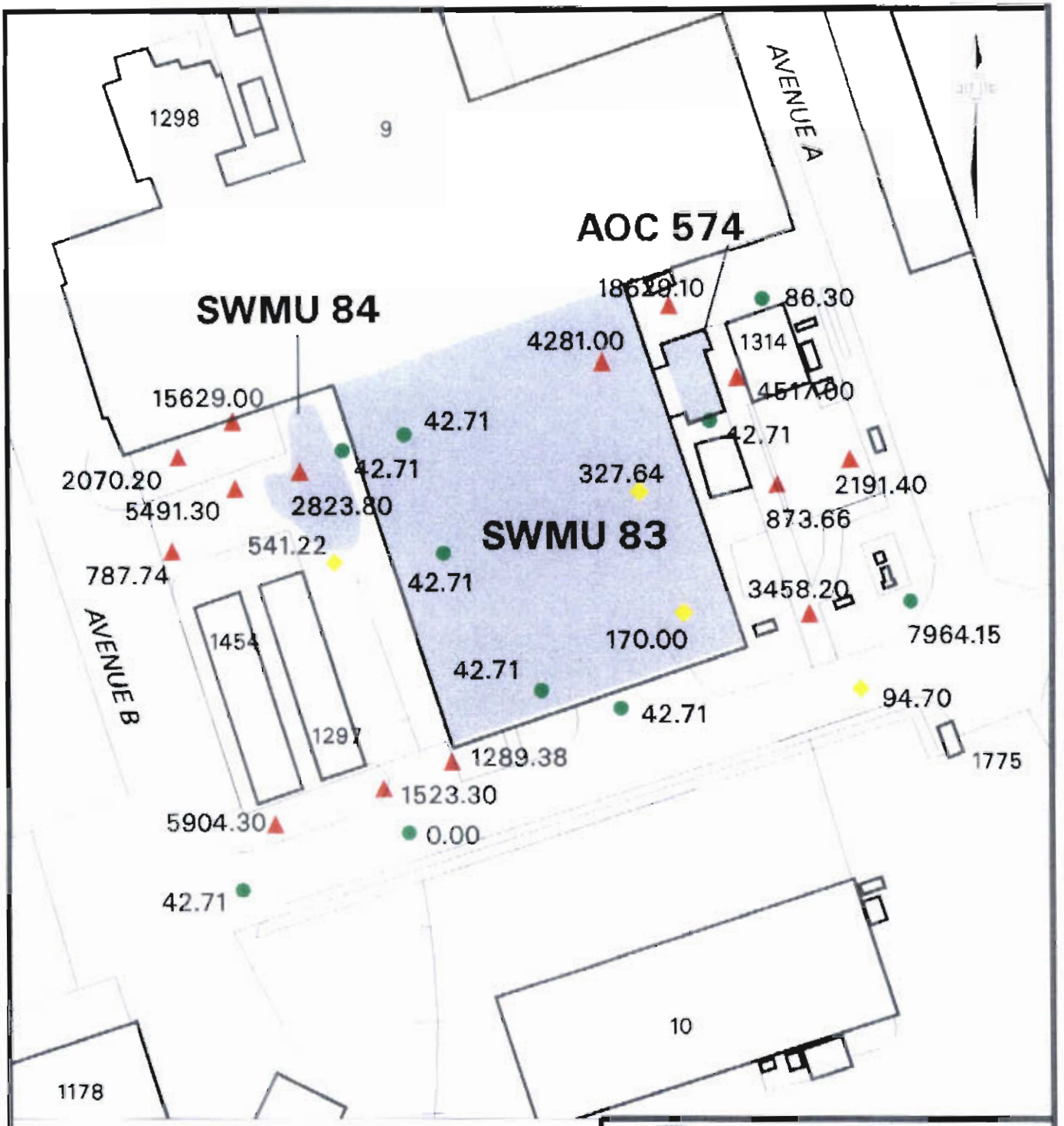
ZONE E - RCRA
FACILITY INVESTIGATION
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

VINYL CHLORIDE
IN DEEP GROUNDWATER


3
SWMU 22
5
63
AVENUE C
SWMU 25
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.81
0.18
20.90
0.00
0.00
12.40
21.90
AOC 554
AVENUE B
0.00
1.20
0.14
0.14
30.90
57
0.00
McMILLAN AVENUE
1950
1828
1827
< RC (1.5 mg/kg)
> RC (1.5 mg/kg) < RBC (100 mg/kg)
> RBC (100 mg/kg)
0 feet
160
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.
CADMIUM
IN SURFACE SOIL
SWMU 22,25 AOC 554


3
5
63
57
SWMU 22
SWMU 25
AOC 554
AVENUE C
AVENUE B
McMILLAN AVENUE
48.80
44.80
18.00
18.80
0.00
6.70
31.80
61.20
0.00
0.00
1080.00
13.80
344.00
3.80
4.70
10.30
72.90
0.00
1950
1828
1827
< RBC (51 mg/kg)
> RBC (51 mg/kg) < RC (94.6 mg/kg)
> RC (94.6 mg/kg)
0 feet
150
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.
CHROMIUM
IN SURFACE SOIL
SWMU 22,25 AOC 554


3
5
63
57
SWMU 22
SWMU 25
AOC 554
AVENUE C
AVENUE B
McMILLAN AVENUE
1950
1828
1827
0.00
103.00
0.65
1.40
7.20
17.30
< RC (.96 mg/kg)
> RC (.96 mg/kg) < SSL (6 mg/kg)
> SSL (6 mg/kg)
0 feet
150
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.
CADMIUM
IN SUBSURFACE SOIL
SWMU 22,25 AOC 554



● < RES RBC (88 mg/kg)

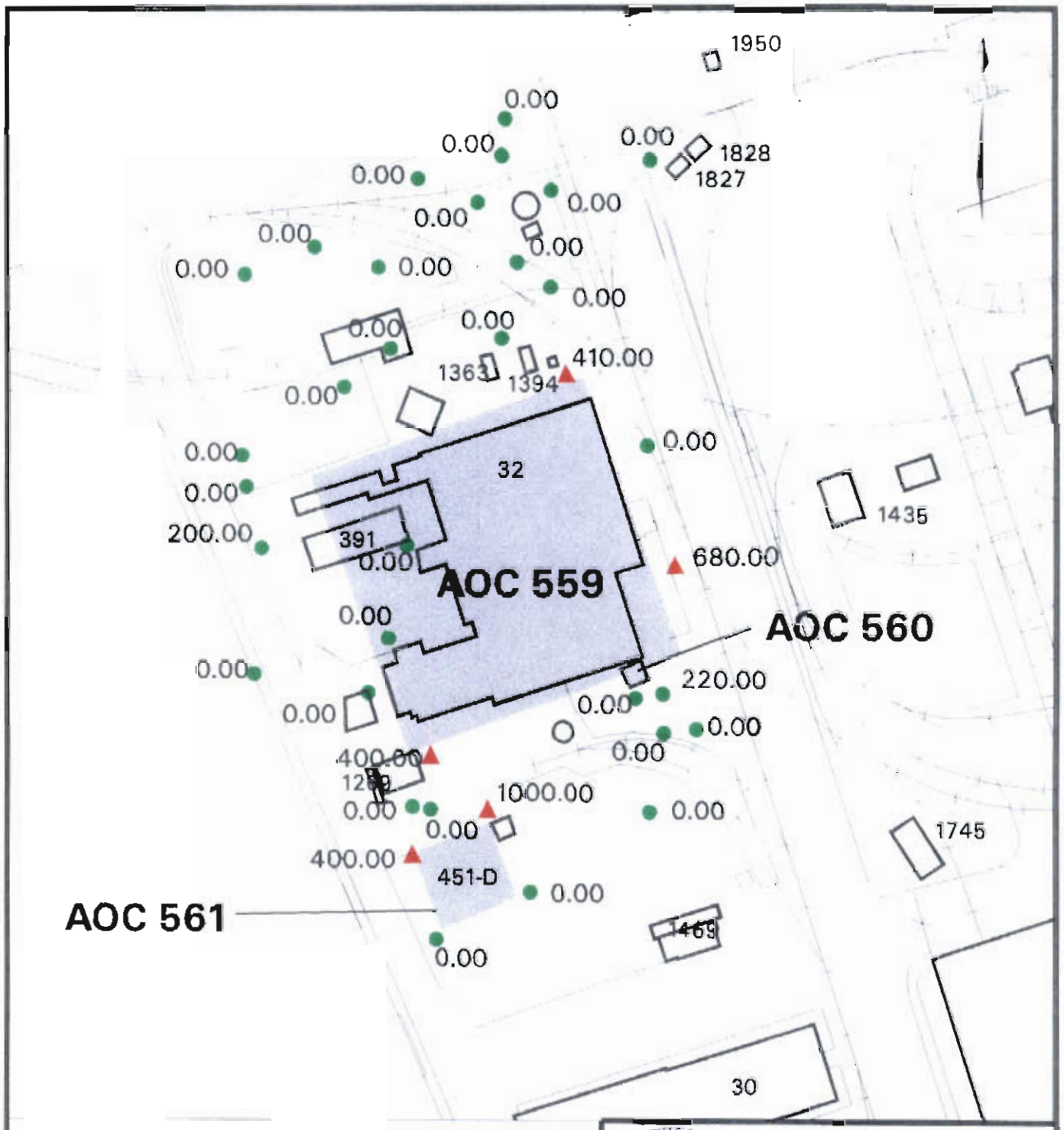
◆ > RES RBC (88 mg/kg) < IND RBC (780 mg/kg)

▲ > IND RBC (780 mg/kg)

0 feet 120

ZONE E - RCRA FACILITY INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

BENZO(A)PYRENE EQUIVALENTS
IN SURFACE SOIL
SWMU 83,84 AOC 574



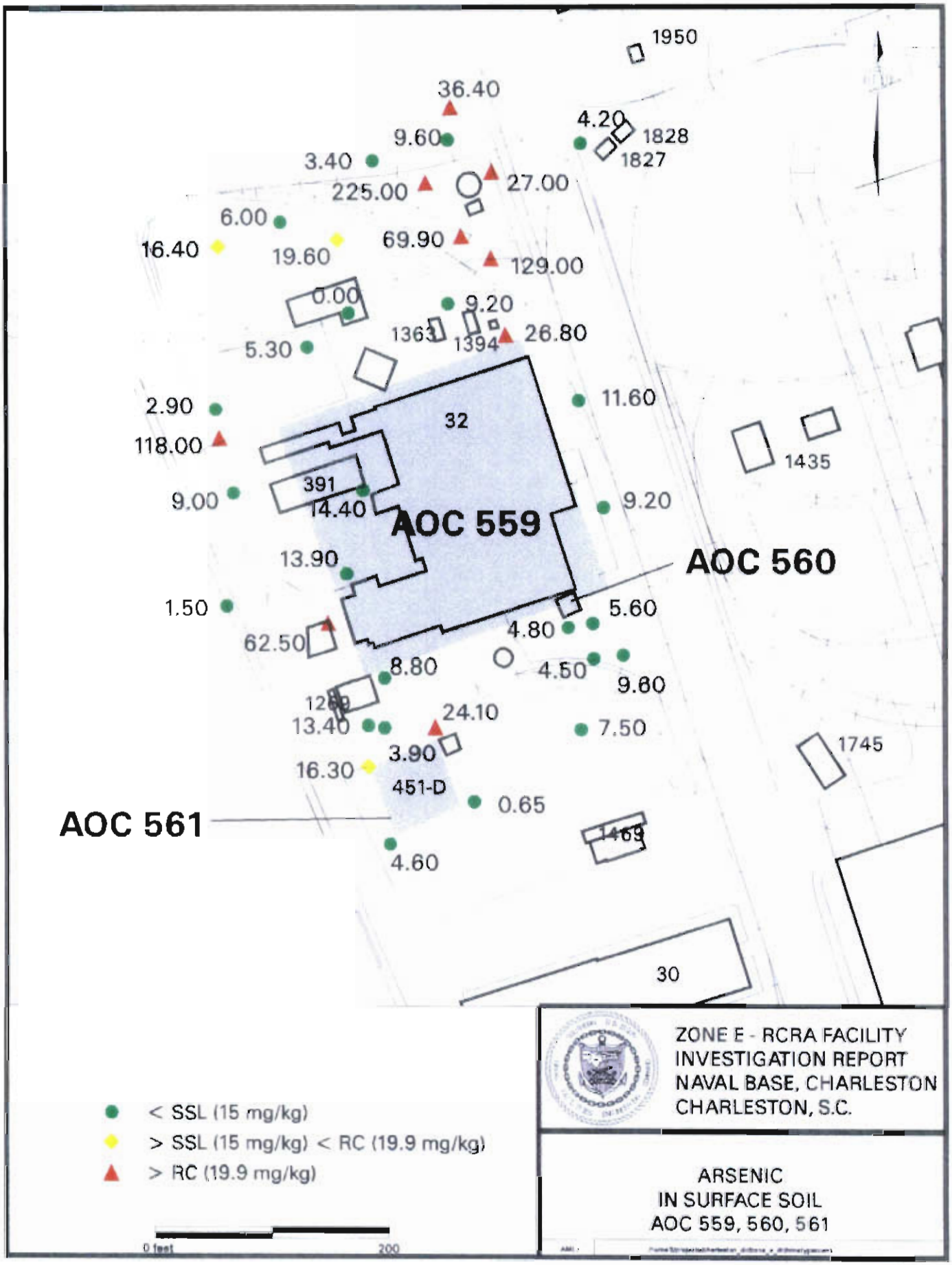
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

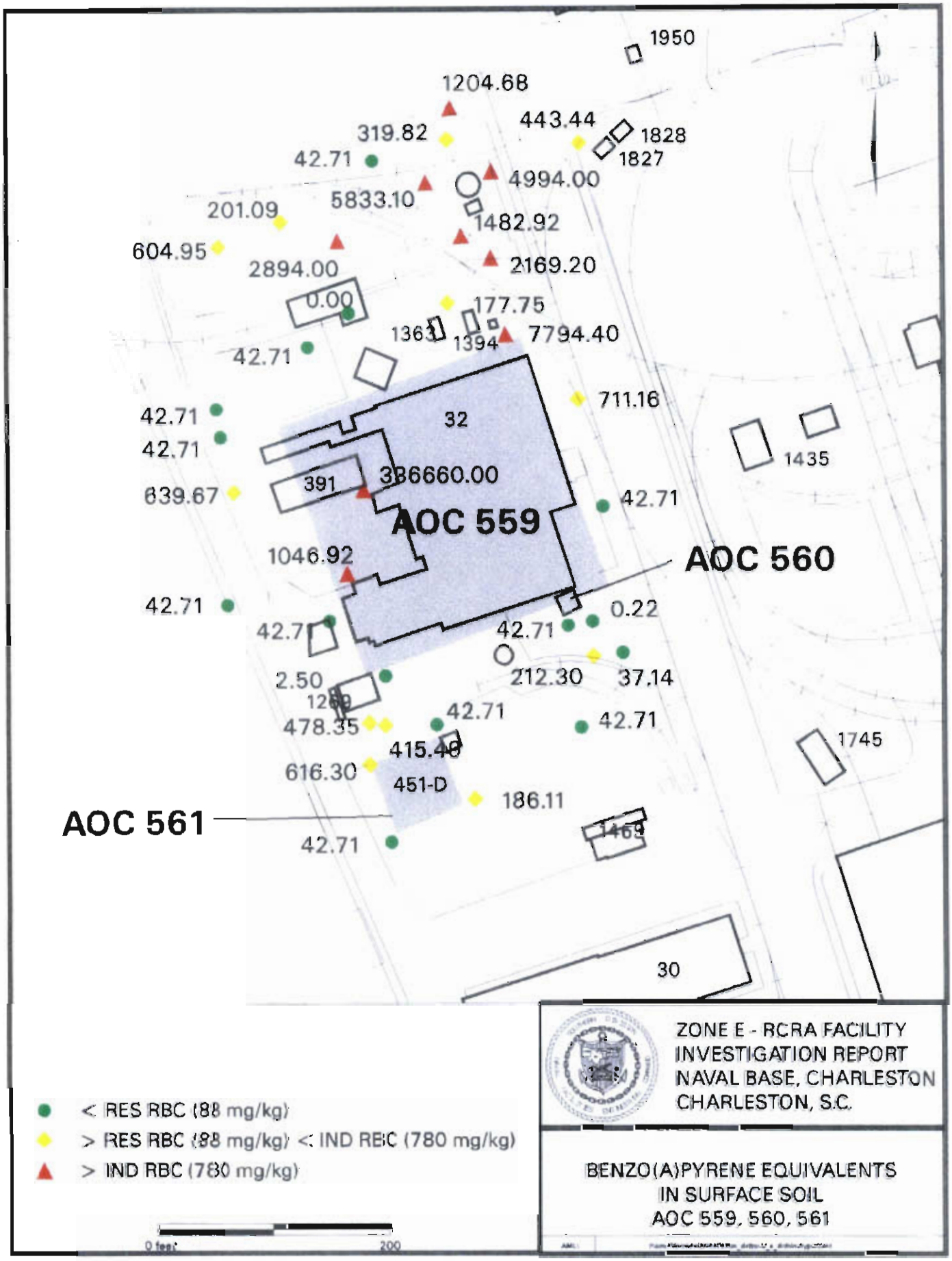
● < RBC (370 mg/kg)

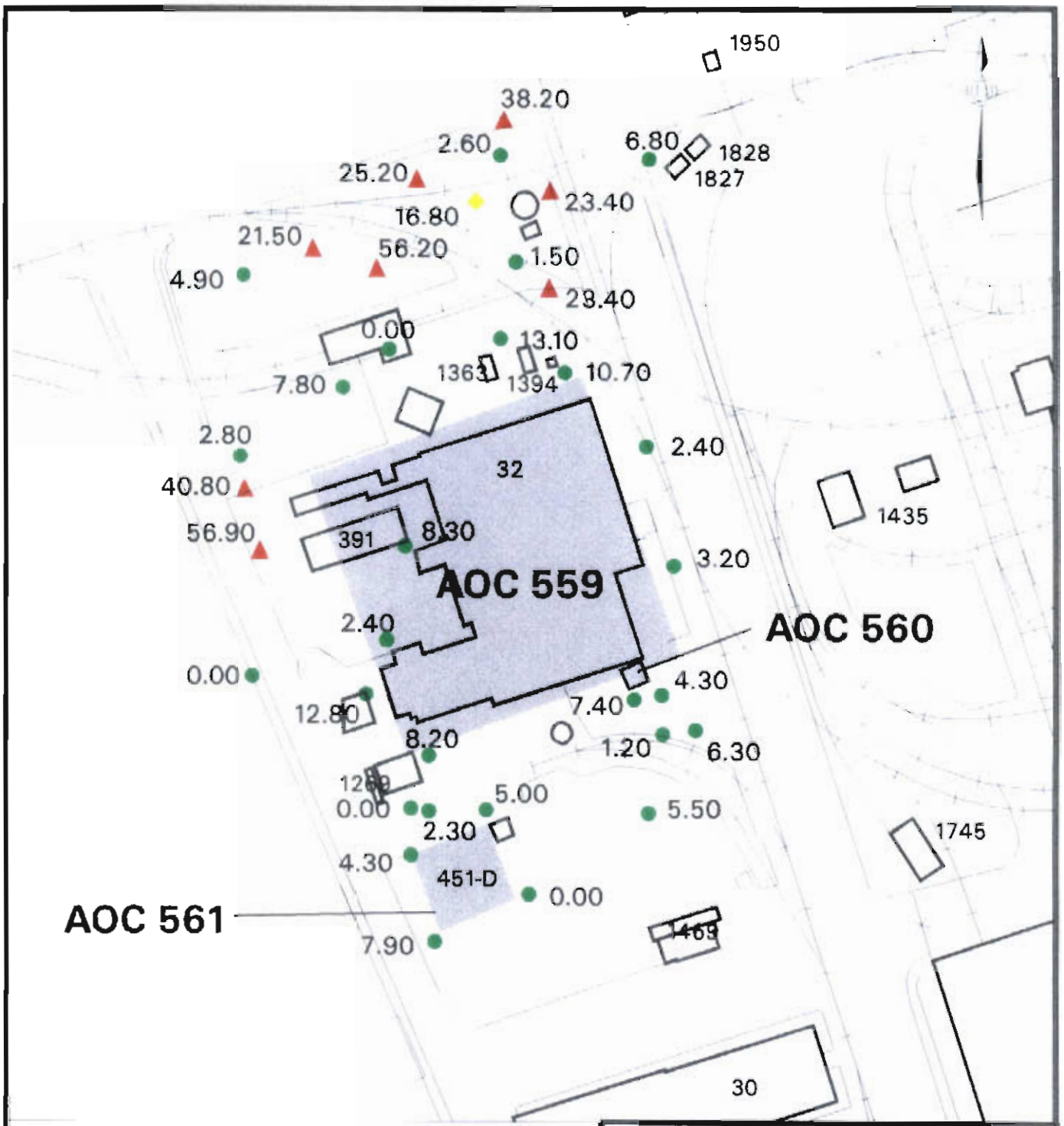
▲ > RBC (37: mg/kg)

0 100 200

AROCLOR-1260
IN SURFACE SOIL
AOC 559, 560, 561


1950
36.40
4.20
1828
1827
9.60
3.40
225.00
27.00
6.00
16.40
19.60
69.90
129.00
0.00
9.20
1363
1394
26.80
5.30
11.60
2.90
32
118.00
1435
391
9.00
14.40
AOC 559
9.20
13.90
AOC 560
1.50
5.60
62.50
4.80
8.80
4.50
9.60
1269
24.10
13.40
7.50
1745
3.90
16.30
451-D
0.65
AOC 561
1469
4.60
30
< SSL (15 mg/kg)
> SSL (15 mg/kg) < RC (19.9 mg/kg)
> RC (19.9 mg/kg)
0 feet
200
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.
ARSENIC
IN SURFACE SOIL
AOC 559, 560, 561


1950
1204.68
443.44
1828
1827
319.82
42.71
4994.00
5833.10
201.09
1482.92
604.95
2894.00
2169.20
0.00
177.75
1363
1394
7794.40
42.71
711.16
42.71
32
42.71
1435
391
336660.00
639.67
42.71
AOC 559
1046.92
AOC 560
42.71
0.22
42.71
42.71
212.30
37.14
2.50
1269
42.71
478.35
42.71
415.48
1745
616.30
451-D
186.11
AOC 561
1469
42.71
30
< RES RBC (88 mg/kg)
> RES RBC (88 mg/kg) < IND RBC (780 mg/kg)
> IND RBC (780 mg/kg)
0 feet
200
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.
BENZO(A)PYRENE EQUIVALENTS
IN SURFACE SOIL
AOC 559, 560, 561

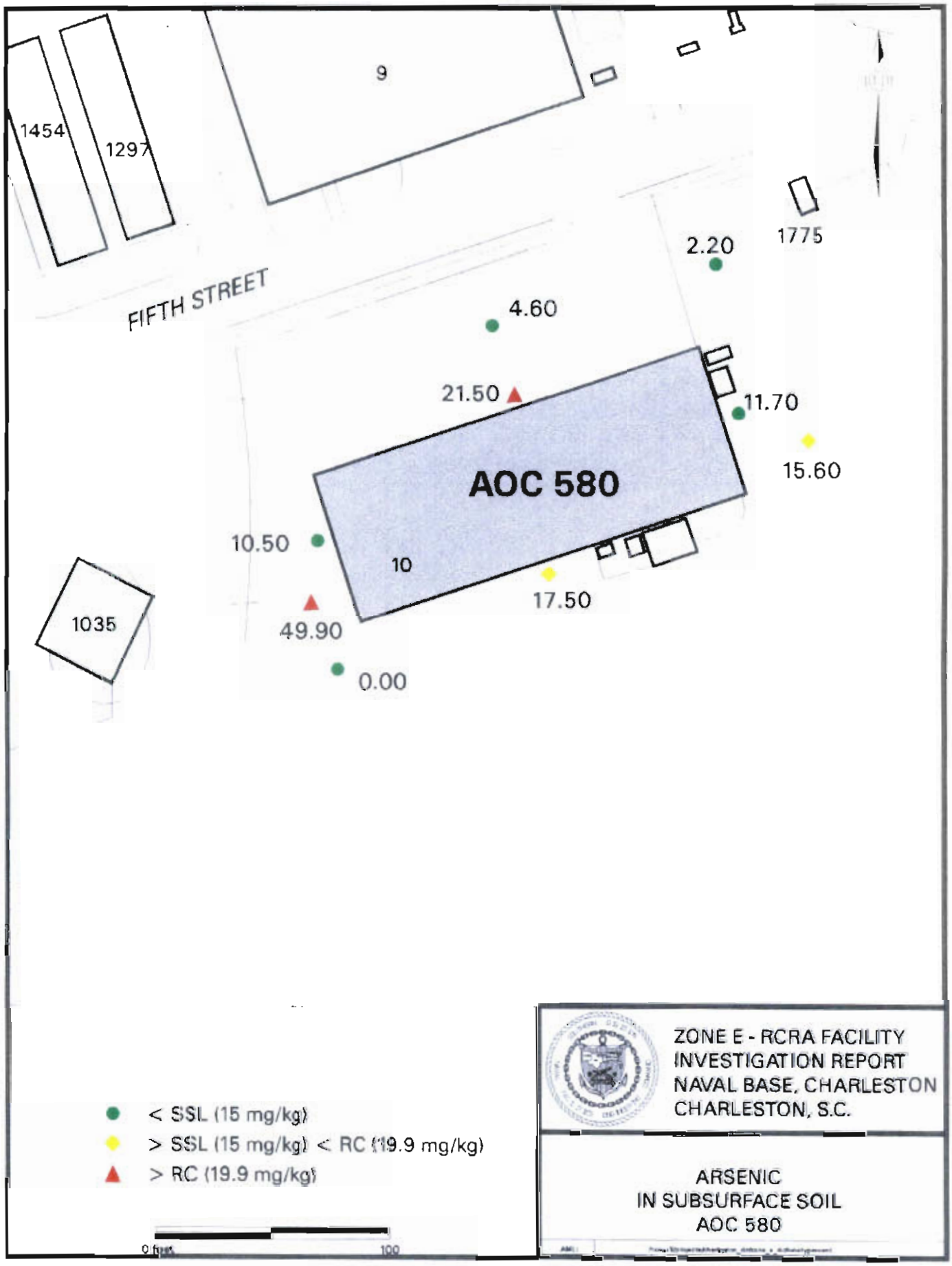


ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.

ARSENIC
IN SUBSURFACE SOIL
AOC 559, 560, 561

- < SSL (15 mg/kg)
- > SSL (15 mg/kg) < RC (19.9 mg/kg)
- > RC (19.9 mg/kg)

0 feet 200


9
1454
1297
1775
2.20
FIFTH STREET
4.60
21.50
11.70
15.60
AOC 580
10.50
10
17.50
1035
49.90
0.00
< SSL (15 mg/kg)
> SSL (15 mg/kg) < RC (19.9 mg/kg)
> RC (19.9 mg/kg)
0 feet
100
ZONE E - RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE, CHARLESTON
CHARLESTON, S.C.
ARSENIC
IN SUBSURFACE SOIL
AOC 580

Zone E Groundwater Samples Exceeding MCLs

SITE	METHOD	PARAMETER	SAMPLE ID	RESULT	EPA MCL	UNITS
021	SW846-META	Antimony (Sb)	021GW00201	10.2000	6.0000	UG/L
021	SW846-META	Thallium (Tl)	021GW00303	3.2000	2.0000	UG/L
025	SW846-META	Antimony (Sb)	025GW00304	13.0000	6.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00203	6.0000	5.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00201	6.3000	5.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00202	6.4000	5.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00301	84.0000	5.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00302	85.3000	5.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00304	85.8000	5.0000	UG/L
025	SW846-META	Cadmium (Cd)	025GW00303	88.1000	5.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00204	119.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00401	127.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00203	159.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00201	177.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00202	192.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00301	843.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00302	1200.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00304	1550.0000	100.0000	UG/L
025	SW846-META	Chromium (Cr)	025GW00303	3260.0000	100.0000	UG/L
025	SW846-META	Nickel (Ni)	025GW00302	464.0000	100.0000	UG/L
025	SW846-META	Nickel (Ni)	025GW00301	513.0000	100.0000	UG/L
025	SW846-META	Nickel (Ni)	025GW00304	553.0000	100.0000	UG/L
025	SW846-META	Nickel (Ni)	025GW00303	590.0000	100.0000	UG/L
025	SW846-META	Thallium (Tl)	025GW00304	3.1000	2.0000	UG/L
025	SW846-META	Thallium (Tl)	025GW00104	3.3000	2.0000	UG/L
025	SW846-META	Thallium (Tl)	025GW00404	4.5000	2.0000	UG/L
025	SW846-VOA	Tetrachloroethene	025GW00303	9.0000	5.0000	UG/L
025	SW846-VOA	Tetrachloroethene	025GW00103	10.0000	5.0000	UG/L
025	SW846-VOA	Tetrachloroethene	025GW00304	11.0000	5.0000	UG/L
025	SW846-VOA	Trichloroethene	025GW00304	11.0000	5.0000	UG/L
025	SW846-VOA	Trichloroethene	025GW00303	18.0000	5.0000	UG/L
053	SW846-META	Thallium (Tl)	053GW00103	4.8000	2.0000	UG/L
054	SW846-META	Antimony (Sb)	054GW00201	10.9000	6.0000	UG/L
054	SW846-META	Antimony (Sb)	054GW00204	13.8000	6.0000	UG/L
054	SW846-META	Nickel (Ni)	054GW00203	129.0000	100.0000	UG/L
054	SW846-META	Thallium (Tl)	054GW00203	3.6000	2.0000	UG/L
054	SW846-META	Thallium (Tl)	054GW00201	5.0000	2.0000	UG/L
063	SW846-META	Thallium (Tl)	063GW00103	5.3000	2.0000	UG/L
063	SW846-META	Thallium (Tl)	063GW00203	5.7000	2.0000	UG/L
065	SW846-META	Antimony (Sb)	065GW00304	17.9000	6.0000	UG/L
065	SW846-META	Antimony (Sb)	065GW00301	42.0000	6.0000	UG/L
065	SW846-META	Arsenic (As)	065GW00401	58.8000	50.0000	UG/L
065	SW846-META	Cadmium (Cd)	065GW00301	6.9000	5.0000	UG/L
065	SW846-META	Chromium (Cr)	065GW00401	159.0000	100.0000	UG/L
065	SW846-META	Chromium (Cr)	065GW00301	245.0000	100.0000	UG/L
065	SW846-META	Lead (Pb)	065GW00304	207.0000	15.0000	UG/L
065	SW846-META	Lead (Pb)	065GW00303	224.0000	15.0000	UG/L
065	SW846-META	Lead (Pb)	065GW00401	315.0000	15.0000	UG/L
065	SW846-META	Lead (Pb)	065GW00302	349.0000	15.0000	UG/L
065	SW846-META	Lead (Pb)	065GW00301	1690.0000	15.0000	UG/L
065	SW846-META	Mercury (Hg)	065GW00103	2.3000	2.0000	UG/L
065	SW846-META	Mercury (Hg)	065GW00401	5.7000	2.0000	UG/L
065	SW846-META	Thallium (Tl)	065GW00203	2.8000	2.0000	UG/L

Zone E Groundwater Samples Exceeding MCLs

SITE	METHOD	PARAMETER	SAMPLE ID	RESULT	EPA MCL	UNITS
065	SW846-VOA	Trichloroethene	065GW04D02	6.0000	5.0000	UG/L
065	SW846-VOA	Trichloroethene	065GW04D01	8.0000	5.0000	UG/L
065	SW846-VOA	Trichloroethene	065GW00303	15.0000	5.0000	UG/L
065	SW846-VOA	Trichloroethene	065GW00304	15.0000	5.0000	UG/L
065	SW846-VOA	Trichloroethene	065GW00302	16.0000	5.0000	UG/L
065	SW846-VOA	Vinyl chloride	065GW04D04	3.0000	2.0000	UG/L
065	SW846-VOA	Vinyl chloride	065GW04D03	4.0000	2.0000	UG/L
065	SW846-VOA	Vinyl chloride	065GW00301	6.0000	2.0000	UG/L
065	SW846-VOA	Vinyl chloride	065GW04D01	6.0000	2.0000	UG/L
065	SW846-VOA	Vinyl chloride	065GW04D02	6.0000	2.0000	UG/L
067	SW846-META	Thallium (Tl)	067GW00203	4.0000	2.0000	UG/L
070	SW846-META	Antimony (Sb)	070GW00101	24.2000	6.0000	UG/L
070	SW846-META	Antimony (Sb)	070GW00102	36.0000	6.0000	UG/L
070	SW846-META	Antimony (Sb)	070GW00104	36.9000	6.0000	UG/L
070	SW846-META	Antimony (Sb)	070GW01D01	115.0000	6.0000	UG/L
070	SW846-META	Antimony (Sb)	070GW01D02	149.0000	6.0000	UG/L
070	SW846-META	Antimony (Sb)	070GW01D04	209.0000	6.0000	UG/L
070	SW846-META	Cadmium (Cd)	070GW00104	5.6000	5.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00202	261.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00203	302.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00204	395.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00201	440.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00104	5790.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00103	6330.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00102	6800.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW00101	7350.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW01D04	40700.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW01D03	42200.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW01D02	47700.0000	100.0000	UG/L
070	SW846-META	Chromium (Cr)	070GW01D01	52500.0000	100.0000	UG/L
070	SW846-META	Thallium (Tl)	070GW00103	3.2000	2.0000	UG/L
070	SW846-META	Thallium (Tl)	070GW01D01	9.5000	2.0000	UG/L
070	SW846-META	Thallium (Tl)	070GW01D03	10.6000	2.0000	UG/L
070	SW846-VOA	Tetrachloroethene	070GW01D01	8.0000	5.0000	UG/L
070	SW846-VOA	Tetrachloroethene	070GW01D02	8.0000	5.0000	UG/L
070	SW846-VOA	Tetrachloroethene	070GW01D03	12.0000	5.0000	UG/L
070	SW846-VOA	Tetrachloroethene	070GW01D04	15.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00201	6.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00202	6.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00203	7.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00104	12.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00101	15.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00102	15.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW00103	16.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW01D01	22.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW01D02	25.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW01D04	26.0000	5.0000	UG/L
070	SW846-VOA	Trichloroethene	070GW01D03	30.0000	5.0000	UG/L
083	SW846-META	Thallium (Tl)	083GW00104	5.1000	2.0000	UG/L
084	SW846-META	Thallium (Tl)	084GW00203	8.2000	2.0000	UG/L
102	SW846-META	Thallium (Tl)	102GW00103	3.1000	2.0000	UG/L
106	SW846-META	Thallium (Tl)	106GW00102	3.7000	2.0000	UG/L
106	SW846-META	Thallium (Tl)	106GW01D02	5.0000	2.0000	UG/L

Zone E Groundwater Samples Exceeding MCLs

SITE	METHOD	PARAMETER	SAMPLE ID	RESULT	EPA MCL	UNITS
145	SW846-META	Arsenic (As)	145GW01D04	98.6000	50.0000	UG/L
172	SW846-META	Thallium (Tl)	172GW02D03	4.0000	2.0000	UG/L
172	SW846-VOA	1,2-Dichloroethene (total)	172GW00104	71.0000	70.0000	UG/L
172	SW846-VOA	Trichloroethene	172GW00104	6.0000	5.0000	UG/L
172	SW846-VOA	Vinyl chloride	172GW00102	14.0000	2.0000	UG/L
172	SW846-VOA	Vinyl chloride	172GW00103	35.0000	2.0000	UG/L
172	SW846-VOA	Vinyl chloride	172GW00104	140.0000	2.0000	UG/L
530	SW846-META	Thallium (Tl)	530GW00203	2.9000	2.0000	UG/L
530	SW846-META	Thallium (Tl)	530GW01D03	3.5000	2.0000	UG/L
530	SW846-META	Thallium (Tl)	530GW02D03	3.8000	2.0000	UG/L
530	SW846-META	Thallium (Tl)	530GW00103	4.4000	2.0000	UG/L
530	SW846-SVOA	Pentachlorophenol	530GW00203	2.0000	1.0000	UG/L
538	SW846-META	Arsenic (As)	538GW00103	53.1000	50.0000	UG/L
538	SW846-META	Arsenic (As)	538GW00104	56.7000	50.0000	UG/L
538	SW846-META	Arsenic (As)	538GW00101	60.1000	50.0000	UG/L
538	SW846-META	Arsenic (As)	538GW00102	67.0000	50.0000	UG/L
538	SW846-META	Thallium (Tl)	538GW00102	3.8000	2.0000	UG/L
538	SW846-META	Thallium (Tl)	538GW01D03	3.9000	2.0000	UG/L
539	SW846-META	Thallium (Tl)	539GW01D03	2.8000	2.0000	UG/L
539	SW846-META	Thallium (Tl)	539GW00103	3.5000	2.0000	UG/L
542	SW846-META	Thallium (Tl)	542GW00103	3.3000	2.0000	UG/L
542	SW846-META	Thallium (Tl)	542GW00403	3.3000	2.0000	UG/L
542	SW846-META	Thallium (Tl)	542GW00302	4.2000	2.0000	UG/L
549	SW846-META	Antimony (Sb)	549GW00301	7.7000	6.0000	UG/L
549	SW846-META	Chromium (Cr)	549GW00303	1430.0000	100.0000	UG/L
549	SW846-META	Chromium (Cr)	549GW00302	1540.0000	100.0000	UG/L
549	SW846-META	Chromium (Cr)	549GW00304	1620.0000	100.0000	UG/L
549	SW846-META	Chromium (Cr)	549GW00301	1850.0000	100.0000	UG/L
549	SW846-META	Thallium (Tl)	549GW00104	3.4000	2.0000	UG/L
549	SW846-META	Thallium (Tl)	549GW00304	4.1000	2.0000	UG/L
549	SW846-VOA	Trichloroethene	549GW00301	6.0000	5.0000	UG/L
549	SW846-VOA	Trichloroethene	549GW00303	54.0000	5.0000	UG/L
549	SW846-VOA	Trichloroethene	549GW00302	70.0000	5.0000	UG/L
549	SW846-VOA	Vinyl chloride	549GW00203	3.0000	2.0000	UG/L
549	SW846-VOA	Vinyl chloride	549GW00303	3.0000	2.0000	UG/L
549	SW846-VOA	Vinyl chloride	549GW00302	4.0000	2.0000	UG/L
549	SW846-VOA	Vinyl chloride	549GW00304	5.0000	2.0000	UG/L
550	SW846-META	Arsenic (As)	550GW00104	55.9000	50.0000	UG/L
550	SW846-META	Arsenic (As)	550GW00103	93.2000	50.0000	UG/L
550	SW846-META	Thallium (Tl)	550GW00103	4.0000	2.0000	UG/L
551	SW846-META	Thallium (Tl)	551GW00104	3.1000	2.0000	UG/L
551	SW846-META	Thallium (Tl)	551GW00204	4.4000	2.0000	UG/L
556	SW846-META	Arsenic (As)	556GW01D04	73.7000	50.0000	UG/L
556	SW846-META	Thallium (Tl)	556GW01D04	5.3000	2.0000	UG/L
559	SW846-META	Thallium (Tl)	559GW03D01	3.9000	2.0000	UG/L
559	SW846-SVOA	1,4-Dichlorobenzene	559GW00504	110.0000	75.0000	UG/L
559	SW846-SVOA	1,4-Dichlorobenzene	559GW00502	150.0000	75.0000	UG/L
559	SW846-SVOA	1,4-Dichlorobenzene	559GW00501	240.0000	75.0000	UG/L
559	SW846-VOA	Benzene	559GW00502	8.0000	5.0000	UG/L
559	SW846-VOA	Benzene	559GW00501	12.0000	5.0000	UG/L
559	SW846-VOA	Trichloroethene	559GW03D03	6.0000	5.0000	UG/L
563	SW846-META	Lead (Pb)	563GW00101	17.6000	15.0000	UG/L
563	SW846-VOA	Methylene chloride	563GW00103	7.0000	5.0000	UG/L

Zone E Groundwater Samples Exceeding MCLs

SITE	METHOD	PARAMETER	SAMPLE ID	RESULT	EPA MCL	UNITS
563	SW846-VOA	Trichloroethene	563GW00102	6.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00203	6.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00204	6.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00104	10.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00103	14.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00304	44.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00303	100.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00301	120.0000	5.0000	UG/L
563	SW846-VOA	Trichloroethene	563GW00302	120.0000	5.0000	UG/L
566	SW846-META	Arsenic (As)	566GW01D01	62.7000	50.0000	UG/L
566	SW846-META	Arsenic (As)	566GW01D02	67.8000	50.0000	UG/L
566	SW846-META	Arsenic (As)	566GW01D03	74.6000	50.0000	UG/L
566	SW846-META	Thallium (Tl)	566GW00104	5.8000	2.0000	UG/L
569	SW846-META	Thallium (Tl)	569GW01D01	5.5000	2.0000	UG/L
569	SW846-VOA	Tetrachloroethene	569GW00202	8.0000	5.0000	UG/L
569	SW846-VOA	Tetrachloroethene	569GW00201	9.0000	5.0000	UG/L
569	SW846-VOA	Tetrachloroethene	569GW00103	10.0000	5.0000	UG/L
569	SW846-VOA	Tetrachloroethene	569GW00203	13.0000	5.0000	UG/L
569	SW846-VOA	Tetrachloroethene	569GW00104	53.0000	5.0000	UG/L
569	SW846-VOA	Trichloroethene	569GW00203	6.0000	5.0000	UG/L
570	SW846-META	Chromium (Cr)	570GW00201	137.0000	100.0000	UG/L
570	SW846-META	Lead (Pb)	570GW00204	17.9000	15.0000	UG/L
570	SW846-META	Lead (Pb)	570GW00203	22.5000	15.0000	UG/L
570	SW846-META	Lead (Pb)	570GW00201	77.5000	15.0000	UG/L
570	SW846-META	Thallium (Tl)	570GW02D03	6.1000	2.0000	UG/L
570	SW846-VOA	Methylene chloride	570GW00303	8.0000	5.0000	UG/L
570	SW846-VOA	Tetrachloroethene	570GW00103	7.0000	5.0000	UG/L
570	SW846-VOA	Tetrachloroethene	570GW00104	16.0000	5.0000	UG/L
570	SW846-VOA	Trichloroethene	570GW03D02	7.0000	5.0000	UG/L
570	SW846-VOA	Trichloroethene	570GW03D01	11.0000	5.0000	UG/L
570	SW846-VOA	Trichloroethene	570GW03D04	13.0000	5.0000	UG/L
570	SW846-VOA	Trichloroethene	570GW03D03	17.0000	5.0000	UG/L
572	SW846-META	Thallium (Tl)	572GW00103	3.1000	2.0000	UG/L
572	SW846-META	Thallium (Tl)	572GW00202	4.9000	2.0000	UG/L
573	SW846-META	Thallium (Tl)	573GW00102	3.2000	2.0000	UG/L
574	SW846-META	Arsenic (As)	574GW01D01	67.5000	50.0000	UG/L
574	SW846-META	Arsenic (As)	574GW01D02	70.7000	50.0000	UG/L
574	SW846-META	Arsenic (As)	574GW01D03	74.1000	50.0000	UG/L
574	SW846-META	Arsenic (As)	574GW01D04	79.4000	50.0000	UG/L
574	SW846-META	Thallium (Tl)	574GW00102	3.4000	2.0000	UG/L
574	SW846-META	Thallium (Tl)	574GW01D04	4.1000	2.0000	UG/L
574	SW846-META	Thallium (Tl)	574GW01D02	8.3000	2.0000	UG/L
576	SW846-META	Arsenic (As)	576GW02D02	51.7000	50.0000	UG/L
576	SW846-META	Arsenic (As)	576GW02D03	58.0000	50.0000	UG/L
576	SW846-META	Thallium (Tl)	576GW00104	4.6000	2.0000	UG/L
576	SW846-META	Thallium (Tl)	576GW00204	5.3000	2.0000	UG/L
576	SW846-SVOA	Pentachlorophenol	576GW00201	6.0000	1.0000	UG/L
580	SW846-META	Arsenic (As)	580GW01D01	84.4000	50.0000	UG/L
580	SW846-META	Arsenic (As)	580GW01D02	96.6000	50.0000	UG/L
580	SW846-META	Arsenic (As)	580GW01D04	98.7000	50.0000	UG/L
580	SW846-META	Arsenic (As)	580GW01D03	110.0000	50.0000	UG/L
580	SW846-META	Thallium (Tl)	580GW00102	4.5000	2.0000	UG/L
583	SW846-META	Thallium (Tl)	583GW00302	5.4000	2.0000	UG/L

Zone E Groundwater Samples Exceeding MCLs

SITE	METHOD	PARAMETER	SAMPLE ID	RESULT	EPA MCL	UNITS
583	SW846-META	Thallium (Tl)	583GW02D02	5.5000	2.0000	UG/L
590	SW846-META	Thallium (Tl)	590GW01D03	3.1000	2.0000	UG/L
590	SW846-META	Thallium (Tl)	590GW00104	4.5000	2.0000	UG/L
590	SW846-META	Thallium (Tl)	590GW01D04	5.2000	2.0000	UG/L
596	SW846-META	Lead (Pb)	596GW00202	28.1000	15.0000	UG/L
596	SW846-META	Thallium (Tl)	596GW00304	6.7000	2.0000	UG/L
596	SW846-META	Thallium (Tl)	596GW04D04	7.0000	2.0000	UG/L
598	SW846-META	Thallium (Tl)	598GW00103	8.2000	2.0000	UG/L
599	SW846-META	Thallium (Tl)	599GW00103	3.3000	2.0000	UG/L
605	SW846-META	Antimony (Sb)	605GW00301	6.2000	6.0000	UG/L
605	SW846-META	Antimony (Sb)	605GW00201	6.6000	6.0000	UG/L
605	SW846-META	Arsenic (As)	605GW00304	82.7000	50.0000	UG/L
605	SW846-META	Arsenic (As)	605GW00302	85.5000	50.0000	UG/L
605	SW846-META	Lead (Pb)	605GW00202	68.6000	15.0000	UG/L
605	SW846-META	Lead (Pb)	605GW00203	404.0000	15.0000	UG/L
605	SW846-META	Lead (Pb)	605GW00201	426.0000	15.0000	UG/L
605	SW846-META	Lead (Pb)	605GW00204	1970.0000	15.0000	UG/L
GDE	SW846-META	Antimony (Sb)	GDEGW19D01	6.8000	6.0000	UG/L
GDE	SW846-META	Antimony (Sb)	GDEGW29DA3	9.7000	6.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00301	51.7000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW01601	55.8000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00801	56.3000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW09D02	64.2000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00302	69.3000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW01603	70.3000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW09D01	77.5000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW09D03	84.2000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW01602	85.3000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW09D04	85.3000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00804	109.0000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW07D02	132.0000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00803	160.0000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00204	249.0000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00203	269.0000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00202	307.0000	50.0000	UG/L
GDE	SW846-META	Arsenic (As)	GDEGW00201	316.0000	50.0000	UG/L
GDE	SW846-META	Lead (Pb)	GDEGW02601	20.8000	15.0000	UG/L
GDE	SW846-META	Lead (Pb)	GDEGW02403	26.3000	15.0000	UG/L
GDE	SW846-META	Lead (Pb)	GDEGW02401	34.4000	15.0000	UG/L
GDE	SW846-META	Lead (Pb)	GDEGW02402	46.7000	15.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW13D04	2.7000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW06D02	2.8000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW02202	3.2000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW07D03	3.2000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW01D03	3.3000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW01302	3.4000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW13D02	3.4000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW02D02	3.6000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW14D03	3.6000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW22D02	3.6000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00704	3.7000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00204	3.8000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW01304	3.9000	2.0000	UG/L

Zone E Groundwater Samples Exceeding MCLs

SITE	METHOD	PARAMETER	SAMPLE ID	RESULT	EPA MCL	UNITS
GDE	SW846-META	Thallium (Tl)	GDEGW02302	4.1000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00104	4.2000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00804	4.2000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW15D03	4.4000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW24D02	4.5000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW15D01	4.7000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW01002	5.0000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW029A3	5.0000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW02D04	5.1000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW01201	5.3000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00103	5.4000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00503	5.4000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW27DA3	5.7000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW00502	5.8000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW03D02	6.0000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW23D02	6.0000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW09D03	6.3000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW08D04	6.5000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW028A3	6.8000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW28DA3	6.9000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW29DA3	7.0000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW26DA3	7.2000	2.0000	UG/L
GDE	SW846-META	Thallium (Tl)	GDEGW25D03	7.4000	2.0000	UG/L
GDE	SW846-SVOA	Pentachlorophenol	GDEGW01001	3.0000	1.0000	UG/L
GDE	SW846-SVOA	Pentachlorophenol	GDEGW24D03	4.0000	1.0000	UG/L
GDE	SW846-VOA	1,1-Dichloroethene	GDEGW19D02	37.0000	7.0000	UG/L
GDE	SW846-VOA	1,1-Dichloroethene	GDEGW02002	44.0000	7.0000	UG/L
GDE	SW846-VOA	Benzene	GDEGW01303	11.0000	5.0000	UG/L
GDE	SW846-VOA	Benzene	GDEGW19D02	47.0000	5.0000	UG/L
GDE	SW846-VOA	Benzene	GDEGW02002	56.0000	5.0000	UG/L
GDE	SW846-VOA	Tetrachloroethene	GDEGW26DA2	13.0000	5.0000	UG/L
GDE	SW846-VOA	Tetrachloroethene	GDEGW26DA3	17.0000	5.0000	UG/L
GDE	SW846-VOA	Tetrachloroethene	GDEGW17D01	63.0000	5.0000	UG/L
GDE	SW846-VOA	Tetrachloroethene	GDEGW17D02	160.0000	5.0000	UG/L
GDE	SW846-VOA	Tetrachloroethene	GDEGW17D04	180.0000	5.0000	UG/L
GDE	SW846-VOA	Tetrachloroethene	GDEGW17D03	270.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW26DA3	6.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW02501	9.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW17D01	12.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW17D02	14.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW17D03	15.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW17D04	16.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW19D02	44.0000	5.0000	UG/L
GDE	SW846-VOA	Trichloroethene	GDEGW02002	55.0000	5.0000	UG/L
GDE	SW846-VOA	Vinyl chloride	GDEGW00102	3.0000	2.0000	UG/L
GDE	SW846-VOA	Vinyl chloride	GDEGW18D04	7.0000	2.0000	UG/L

Zone E Lower-Interval Soil Results Exceeding EPA Region III SSLs

GROUP	SITE	SAMPLE ID	METHOD	PARAMETER	RESULT	SSL	UNITS
005	605	605SB00602	SW846-META	Arsenic (As)	19.0000	15.0000	MG/KG
005	605	605SB01402	SW846-META	Arsenic (As)	20.6000	15.0000	MG/KG
005	005	005SB00102	SW846-META	Barium (Ba)	32.6000	32.0000	MG/KG
005	018	018SB00502	SW846-META	Barium (Ba)	32.9000	32.0000	MG/KG
005	005	005SB00202	SW846-META	Barium (Ba)	33.4000	32.0000	MG/KG
005	605	605SB01102	SW846-META	Barium (Ba)	39.3000	32.0000	MG/KG
005	605	605SB01202	SW846-META	Barium (Ba)	39.9000	32.0000	MG/KG
005	605	605SB00602	SW846-META	Barium (Ba)	42.0000	32.0000	MG/KG
005	605	605SB01702	SW846-META	Barium (Ba)	42.7000	32.0000	MG/KG
005	605	605SB00502	SW846-META	Barium (Ba)	85.7000	32.0000	MG/KG
005	605	605SB01502	SW846-META	Barium (Ba)	115.0000	32.0000	MG/KG
005	018	018SB00302	SW846-PEST	alpha-BHC	11.0000	0.4000	UG/KG
005	605	605SB01002	SW846-SVOA	2,4-Dinitrotoluene	290.0000	200.0000	UG/KG
005	605	605SB01502	SW846-SVOA	Benzo(a)anthracene	840.0000	700.0000	UG/KG
005	605	605SB01502	SW846-SVOA	Chrysene	1400.0000	1000.0000	UG/KG
021	054	054SB03302	SW846-META	Arsenic (As)	17.5000	15.0000	MG/KG
021	054	054SB03102	SW846-META	Arsenic (As)	34.5000	15.0000	MG/KG
021	054	054SB03202	SW846-META	Arsenic (As)	36.2000	15.0000	MG/KG
021	054	054SB03502	SW846-META	Arsenic (As)	44.8000	15.0000	MG/KG
021	054	054SB01902	SW846-META	Barium (Ba)	32.4000	32.0000	MG/KG
021	054	054SB01702	SW846-META	Barium (Ba)	32.9000	32.0000	MG/KG
021	054	054SB01602	SW846-META	Barium (Ba)	37.4000	32.0000	MG/KG
021	054	054SB02102	SW846-META	Barium (Ba)	37.6000	32.0000	MG/KG
021	054	054SB00202	SW846-META	Barium (Ba)	44.6000	32.0000	MG/KG
021	054	054SB01502	SW846-META	Barium (Ba)	53.1000	32.0000	MG/KG
021	054	054SB01402	SW846-META	Barium (Ba)	57.7000	32.0000	MG/KG
021	054	054SB03302	SW846-META	Barium (Ba)	119.0000	32.0000	MG/KG
021	054	054SB03102	SW846-META	Barium (Ba)	465.0000	32.0000	MG/KG
021	054	054SB03202	SW846-META	Barium (Ba)	184.0000	32.0000	MG/KG
021	054	054SB00302	SW846-META	Barium (Ba)	1410.0000	32.0000	MG/KG
021	054	054SB03502	SW846-META	Barium (Ba)	2760.0000	32.0000	MG/KG
021	054	054SB00302	SW846-META	Cadmium (Cd)	12.2000	6.0000	MG/KG
021	054	054SB03502	SW846-META	Cadmium (Cd)	17.1000	6.0000	MG/KG
021	054	054SB03102	SW846-META	Cadmium (Cd)	20.8000	6.0000	MG/KG
021	054	054SB02702	SW846-SVOA	Benzo(a)anthracene	890.0000	700.0000	UG/KG
021	054	054SB02202	SW846-SVOA	Benzo(a)anthracene	1400.0000	700.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Benzo(a)anthracene	460000.0000	700.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Benzo(a)pyrene	290000.0000	4000.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Benzo(b)fluoranthene	290000.0000	4000.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Benzo(k)fluoranthene	220000.0000	4000.0000	UG/KG
021	054	054SB02202	SW846-SVOA	Chrysene	1500.0000	1000.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Chrysene	360000.0000	1000.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Dibenz(a,h)anthracene	93000.0000	11000.0000	UG/KG
021	054	054SB03102	SW846-SVOA	Indeno(1,2,3-cd)pyrene	150000.0000	35000.0000	UG/KG
022	022	022SB00202	SW846-PEST	Dieldrin	6.7000	1.0000	UG/KG
022	022	022SB00202	SW846-VOA	Tetrachloroethene	45.0000	1.0000	UG/KG
022	554	554SB00102	SW846-META	Arsenic (As)	17.6000	15.0000	MG/KG
022	025	025SB01002	SW846-META	Barium (Ba)	34.6000	32.0000	MG/KG
022	025	025SB01202	SW846-META	Barium (Ba)	40.8000	32.0000	MG/KG
022	554	554SB00102	SW846-META	Barium (Ba)	44.9000	32.0000	MG/KG
022	025	025SB00802	SW846-META	Cadmium (Cd)	7.2000	6.0000	MG/KG
022	025	025SB01202	SW846-META	Cadmium (Cd)	17.3000	6.0000	MG/KG

Zone E Lower-Interval Soil Results Exceeding EPA Region III SSLs

GROUP	SITE	SAMPLE ID	METHOD	PARAMETER	RESULT	SSL	UNITS
022	025	025SB00602	SW846-META	Cadmium (Cd)	103.0000	6.0000	MG/KG
022	025	025SB00902	SW846-VOA	Tetrachloroethene	2.0000	1.0000	UG/KG
022	025	025SB01102	SW846-VOA	Tetrachloroethene	4.0000	1.0000	UG/KG
022	025	025SB01102	SW846-VOA	Trichloroethene	100.0000	10.0000	UG/KG
023	542	542SB00202	SW846-PEST	alpha-BHC	3.3000	0.4000	UG/KG
023	543	543SB00402	SW846-PEST	Dieldrin	4.5000	1.0000	UG/KG
053	053	053SB00202	SW846-SVOA	Benzo(a)anthracene	5500.0000	700.0000	UG/KG
053	053	053SB00202	SW846-SVOA	Benzo(a)pyrene	6500.0000	4000.0000	UG/KG
053	053	053SB00202	SW846-SVOA	Benzo(k)fluoranthene	7800.0000	4000.0000	UG/KG
053	053	053SB00202	SW846-SVOA	Chrysene	5700.0000	1000.0000	UG/KG
065	065	065SB00102	SW846-META	Arsenic (As)	21.0000	15.0000	MG/KG
065	065	065SB00702	SW846-SVOA	Benzo(a)anthracene	2900.0000	700.0000	UG/KG
065	065	065SB00702	SW846-SVOA	Chrysene	2900.0000	1000.0000	UG/KG
065	065	065SB00602	SW846-PEST	Dieldrin	6.1700	1.0000	UG/KG
065	544	544SB00202	SW846-PEST	Dieldrin	14.4000	1.0000	UG/KG
065	544	544SB00102	SW846-PEST	Dieldrin	29.0000	1.0000	UG/KG
065	544	544SB00302	SW846-PEST	Dieldrin	33.2000	1.0000	UG/KG
065	544	544SB00102	SW846-PEST	beta-BHC	2.8000	2.0000	UG/KG
070	549	549SB00902	SW846-META	Arsenic (As)	16.8000	15.0000	MG/KG
070	549	549SB01202	SW846-META	Barium (Ba)	32.5000	32.0000	MG/KG
070	549	549SB00102	SW846-META	Barium (Ba)	33.0000	32.0000	MG/KG
070	549	549SB01302	SW846-META	Barium (Ba)	35.5000	32.0000	MG/KG
070	549	549SB00902	SW846-META	Barium (Ba)	44.3000	32.0000	MG/KG
070	549	549SB01002	SW846-META	Barium (Ba)	47.2000	32.0000	MG/KG
083	574	574SB00802	SW846-META	Arsenic (As)	16.7000	15.0000	MG/KG
083	574	574SB00102	SW846-META	Barium (Ba)	43.0000	32.0000	MG/KG
083	084	084SB00702	SW846-META	Barium (Ba)	44.6000	32.0000	MG/KG
083	574	574SB00502	SW846-META	Barium (Ba)	51.7000	32.0000	MG/KG
083	574	574SB00502	SW846-META	Barium (Ba)	70.5000	32.0000	MG/KG
083	574	574SB00702	SW846-META	Barium (Ba)	84.8000	32.0000	MG/KG
083	083	083SB00602	SW846-SVOA	Benzo(a)anthracene	3600.0000	700.0000	UG/KG
083	083	083SB00102	SW846-SVOA	Benzo(a)anthracene	4900.0000	700.0000	UG/KG
083	083	083SB00102	SW846-SVOA	Benzo(a)pyrene	5700.0000	4000.0000	UG/KG
083	083	083SB00102	SW846-SVOA	Benzo(b)fluoranthene	5200.0000	4000.0000	UG/KG
083	083	083SB00602	SW846-SVOA	Chrysene	2800.0000	1000.0000	UG/KG
083	083	083SB00102	SW846-SVOA	Chrysene	4500.0000	1000.0000	UG/KG
083	574	574SB00502	SW846-PEST	Dieldrin	4.6000	1.0000	UG/KG
083	574	574SB00702	SW846-PEST	Dieldrin	6.5000	1.0000	UG/KG
083	574	574SB00502	SW846-SVOA	Benzo(a)anthracene	840.0000	700.0000	UG/KG
087	564	564SB00102	SW846-VOA	Chloromethane	7.0000	6.6000	UG/KG
100	100	100SB00202	SW846-META	Arsenic (As)	18.3000	15.0000	MG/KG
100	100	100SB00102	SW846-META	Arsenic (As)	23.6000	15.0000	MG/KG
100	100	100SB00102	SW846-META	Barium (Ba)	40.3000	32.0000	MG/KG
100	100	100SB00202	SW846-META	Barium (Ba)	50.7000	32.0000	MG/KG
102	102	102SB00102	SW846-META	Arsenic (As)	19.8000	15.0000	MG/KG
102	102	102SB00302	SW846-META	Arsenic (As)	19.0000	15.0000	MG/KG

Zone E Lower-Interval Soil Results Exceeding EPA Region III SSLs

GROUP	SITE	SAMPLE ID	METHOD	PARAMETER	RESULT	SSL	UNITS
102	102	102SB00802	SW846-META	Arsenic (As)	22.2000	15.0000	MG/KG
102	102	102SB00902	SW846-META	Arsenic (As)	23.6000	15.0000	MG/KG
102	102	102SB03602	SW846-META	Arsenic (As)	64.1000	15.0000	MG/KG
102	102	102SB03702	SW846-META	Arsenic (As)	38.3000	15.0000	MG/KG
102	102	102SB04002	SW846-META	Arsenic (As)	23.0000	15.0000	MG/KG
102	102	102SB04102	SW846-META	Arsenic (As)	47.0000	15.0000	MG/KG
102	102	102SB04202	SW846-META	Arsenic (As)	18.9000	15.0000	MG/KG
102	102	102SB00102	SW846-META	Barium (Ba)	37.0000	32.0000	MG/KG
102	102	102SB00302	SW846-META	Barium (Ba)	141.0000	32.0000	MG/KG
102	102	102SB00402	SW846-META	Barium (Ba)	38.3000	32.0000	MG/KG
102	102	102SB00602	SW846-META	Barium (Ba)	36.6000	32.0000	MG/KG
102	102	102SB00802	SW846-META	Barium (Ba)	109.0000	32.0000	MG/KG
102	102	102SB00902	SW846-META	Barium (Ba)	37.6000	32.0000	MG/KG
102	102	102SB03402	SW846-META	Barium (Ba)	60.6000	32.0000	MG/KG
102	102	102SB03602	SW846-META	Barium (Ba)	262.0000	32.0000	MG/KG
102	102	102SB03702	SW846-META	Barium (Ba)	42.6000	32.0000	MG/KG
102	102	102SB03602	SW846-PEST	Dieldrin	7.0000	1.0000	UG/KG
102	102	102SB03702	SW846-PEST	Dieldrin	15.0000	1.0000	UG/KG
102	102	102SB00102	SW846-SVOA	Benzo(a)anthracene	1600.0000	700.0000	UG/KG
102	102	102SB00202	SW846-SVOA	Benzo(a)anthracene	2200.0000	700.0000	UG/KG
102	102	102SB00402	SW846-SVOA	Benzo(a)anthracene	1800.0000	700.0000	UG/KG
102	102	102SB00102	SW846-SVOA	Chrysene	2000.0000	1000.0000	UG/KG
102	102	102SB00202	SW846-SVOA	Chrysene	2000.0000	1000.0000	UG/KG
102	102	102SB00402	SW846-SVOA	Chrysene	2000.0000	1000.0000	UG/KG
106	106	106SB00102	SW846-META	Arsenic (As)	27.5000	15.0000	MG/KG
106	106	106SB00202	SW846-META	Arsenic (As)	24.1000	15.0000	MG/KG
106	106	106SB00302	SW846-META	Arsenic (As)	47.2000	15.0000	MG/KG
106	106	106SB00202	SW846-META	Barium (Ba)	40.9000	32.0000	MG/KG
106	106	106SB00302	SW846-META	Barium (Ba)	43.2000	32.0000	MG/KG
106	106	106SB00302	SW846-PEST	alpha-BHC	8.3900	0.4000	UG/KG
106	106	106SB00302	SW846-SVOA	Benzo(a)anthracene	1000.0000	700.0000	UG/KG
106	106	106SB00302	SW846-SVOA	Chrysene	1100.0000	1000.0000	UG/KG
106	603	603SB00302	SW846-META	Arsenic (As)	20.1000	15.0000	MG/KG
106	603	603SB00402	SW846-META	Arsenic (As)	15.8000	15.0000	MG/KG
106	603	603SB00102	SW846-META	Barium (Ba)	46.5000	32.0000	MG/KG
106	603	603SB00202	SW846-META	Barium (Ba)	36.1000	32.0000	MG/KG
106	603	603SB00402	SW846-META	Barium (Ba)	55.5000	32.0000	MG/KG
173	173	173SB00102	SW846-META	Barium (Ba)	38.9000	32.0000	MG/KG
173	173	173SB00202	SW846-META	Barium (Ba)	37.8000	32.0000	MG/KG
525	525	525SB00202	SW846-META	Barium (Ba)	51.5000	32.0000	MG/KG
525	525	525SB00402	SW846-META	Barium (Ba)	52.9000	32.0000	MG/KG
531	531	531SB00502	SW846-META	Arsenic (As)	15.2000	15.0000	MG/KG
550	550	550SB00102	SW846-META	Barium (Ba)	60.7000	32.0000	MG/KG
550	550	550SB01002	SW846-META	Barium (Ba)	52.5000	32.0000	MG/KG
550	550	550SB00102	SW846-SVOA	Benzo(a)anthracene	730.0000	700.0000	UG/KG
551	551	551SB00102	SW846-META	Barium (Ba)	33.0000	32.0000	MG/KG
551	551	551SB00302	SW846-META	Barium (Ba)	136.0000	32.0000	MG/KG
551	551	551SB00602	SW846-META	Barium (Ba)	61.2000	32.0000	MG/KG

Zone E Lower-Interval Soil Results Exceeding EPA Region III SSLs

GROUP	SITE	SAMPLE ID	METHOD	PARAMETER	RESULT	SSL	UNITS
551	552	552SB00202	SW846-META	Barium (Ba)	37.5000	32.0000	MG/KG
551	552	552SB00202	SW846-SVOA	Benzo(a)anthracene	800.0000	700.0000	UG/KG
559	559	559SB00202	SW846-META	Arsenic (As)	23.4000	15.0000	MG/KG
559	559	559SB00602	SW846-META	Arsenic (As)	23.4000	15.0000	MG/KG
559	559	559SB01202	SW846-META	Arsenic (As)	16.8000	15.0000	MG/KG
559	559	559SB01402	SW846-META	Arsenic (As)	25.2000	15.0000	MG/KG
559	559	559SB01502	SW846-META	Arsenic (As)	56.2000	15.0000	MG/KG
559	559	559SB01702	SW846-META	Arsenic (As)	21.5000	15.0000	MG/KG
559	559	559SB02102	SW846-META	Arsenic (As)	40.8000	15.0000	MG/KG
559	559	559SB02302	SW846-META	Arsenic (As)	38.2000	15.0000	MG/KG
559	559	559SB02802	SW846-META	Arsenic (As)	56.9000	15.0000	MG/KG
559	559	559SB00302	SW846-META	Barium (Ba)	62.4000	32.0000	MG/KG
559	559	559SB01502	SW846-META	Barium (Ba)	152.0000	32.0000	MG/KG
559	559	559SB01602	SW846-META	Barium (Ba)	77.6000	32.0000	MG/KG
559	559	559SB01702	SW846-META	Barium (Ba)	51.3000	32.0000	MG/KG
559	559	559SB02102	SW846-META	Barium (Ba)	68.6000	32.0000	MG/KG
559	559	559SB00802	SW846-PEST	Dieldrin	3.1000	1.0000	UG/KG
559	559	559SB02702	SW846-PEST	beta-BHC	3.3000	2.0000	UG/KG
559	559	559SB01202	SW846-SVOA	Benzo(a)anthracene	1600.0000	700.0000	UG/KG
559	559	559SB01902	SW846-SVOA	Benzo(a)anthracene	2800.0000	700.0000	UG/KG
559	559	559SB02502	SW846-SVOA	Benzo(a)anthracene	1600.0000	700.0000	UG/KG
559	559	559SB01202	SW846-SVOA	Chrysene	1600.0000	1000.0000	UG/KG
559	559	559SB01902	SW846-SVOA	Chrysene	2900.0000	1000.0000	UG/KG
559	559	559SB02502	SW846-SVOA	Chrysene	1800.0000	1000.0000	UG/KG
563	563	563SB00202	SW846-META	Barium (Ba)	32.1000	32.0000	MG/KG
563	563	563SB00402	SW846-META	Barium (Ba)	50.4000	32.0000	MG/KG
563	563	563SB00502	SW846-META	Barium (Ba)	44.7000	32.0000	MG/KG
563	563	563SB00702	SW846-META	Barium (Ba)	33.8000	32.0000	MG/KG
563	563	563SB00802	SW846-META	Barium (Ba)	64.6000	32.0000	MG/KG
563	563	563SB00902	SW846-META	Barium (Ba)	37.7000	32.0000	MG/KG
566	566	566SB00102	SW846-SVOA	Benzo(a)anthracene	9200.0000	700.0000	UG/KG
566	566	566SB00102	SW846-SVOA	Benzo(a)pyrene	8200.0000	4000.0000	UG/KG
566	566	566SB00102	SW846-SVOA	Benzo(k)fluoranthene	9000.0000	4000.0000	UG/KG
566	566	566SB00102	SW846-SVOA	Chrysene	8800.0000	1000.0000	UG/KG
567	567	567SB00302	SW846-META	Barium (Ba)	32.7000	32.0000	MG/KG
569	569	569SB00402	SW846-META	Barium (Ba)	33.1000	32.0000	MG/KG
569	569	569SB00502	SW846-VOA	Acetone	47000.0000	8000.0000	UG/KG
569	569	569SB00502	SW846-VOA	Benzene	10000.0000	20.0000	UG/KG
569	569	569SB00502	SW846-VOA	Carbon tetrachloride	3800.0000	30.0000	UG/KG
569	569	569SB00502	SW846-VOA	Ethylbenzene	170000.0000	5000.0000	UG/KG
569	569	569SB00502	SW846-VOA	Xylene (Total)	800000.0000	220000.0000	UG/KG
569	570	570SB01102	SW846-META	Barium (Ba)	34.7000	32.0000	MG/KG
572	572	572SB00702	SW846-META	Arsenic (As)	24.1000	15.0000	MG/KG
572	572	572SB00202	SW846-META	Barium (Ba)	61.7000	32.0000	MG/KG
572	572	572SB00302	SW846-META	Barium (Ba)	60.0000	32.0000	MG/KG
572	572	572SB00602	SW846-META	Barium (Ba)	39.1000	32.0000	MG/KG
572	572	572SB00702	SW846-META	Barium (Ba)	53.1000	32.0000	MG/KG

Zone E Lower-Interval Soil Results Exceeding EPA Region III SSLs

GROUP	SITE	SAMPLE ID	METHOD	PARAMETER	RESULT	SSL	UNITS
573	573	573SB00302	SW846-META	Barium (Ba)	32.6000	32.0000	MG/KG
573	573	573SB00502	SW846-META	Barium (Ba)	98.2000	32.0000	MG/KG
579	579	579SB00602	SW846-META	Arsenic (As)	42.7000	15.0000	MG/KG
579	579	579SB00202	SW846-META	Barium (Ba)	82.6000	32.0000	MG/KG
579	579	579SB00502	SW846-META	Barium (Ba)	47.8000	32.0000	MG/KG
579	579	579SB00602	SW846-META	Barium (Ba)	38.1000	32.0000	MG/KG
580	580	580SB00202	SW846-META	Arsenic (As)	49.9000	15.0000	MG/KG
580	580	580SB00402	SW846-META	Arsenic (As)	17.5000	15.0000	MG/KG
580	580	580SB00602	SW846-META	Arsenic (As)	21.5000	15.0000	MG/KG
580	580	580SB00902	SW846-META	Arsenic (As)	15.6000	15.0000	MG/KG
580	580	580SB00202	SW846-META	Barium (Ba)	33.3000	32.0000	MG/KG
580	580	580SB00302	SW846-META	Barium (Ba)	40.0000	32.0000	MG/KG
580	580	580SB00402	SW846-META	Barium (Ba)	34.5000	32.0000	MG/KG
583	583	583SB00202	SW846-META	Barium (Ba)	41.9000	32.0000	MG/KG
583	583	583SB00702	SW846-META	Barium (Ba)	39.6000	32.0000	MG/KG
583	583	583SB00702	SW846-SVOA	Benzo(a)anthracene	4100.0000	700.0000	UG/KG
583	583	583SB00702	SW846-SVOA	Chrysene	4400.0000	1000.0000	UG/KG
586	586	586SB00202	SW846-META	Arsenic (As)	16.7000	15.0000	MG/KG
586	586	586SB00202	SW846-META	Barium (Ba)	73.1000	32.0000	MG/KG
590	590	590SB00302	SW846-META	Arsenic (As)	21.4000	15.0000	MG/KG
590	590	590SB00502	SW846-META	Arsenic (As)	22.0000	15.0000	MG/KG
590	590	590SB00102	SW846-META	Barium (Ba)	37.9000	32.0000	MG/KG
590	590	590SB00202	SW846-META	Barium (Ba)	53.7000	32.0000	MG/KG
590	590	590SB00302	SW846-META	Barium (Ba)	44.3000	32.0000	MG/KG
590	590	590SB00502	SW846-META	Barium (Ba)	38.4000	32.0000	MG/KG
596	596	596SB00302	SW846-META	Arsenic (As)	19.6000	15.0000	MG/KG
596	596	596SB00602	SW846-META	Arsenic (As)	19.0000	15.0000	MG/KG
596	596	596SB00702	SW846-META	Arsenic (As)	22.0000	15.0000	MG/KG
596	596	596SB00902	SW846-META	Arsenic (As)	15.1000	15.0000	MG/KG
596	596	596SB01002	SW846-META	Arsenic (As)	38.7000	15.0000	MG/KG
596	596	596SB01102	SW846-META	Arsenic (As)	21.0000	15.0000	MG/KG
596	596	596SB00302	SW846-META	Barium (Ba)	33.8000	32.0000	MG/KG
596	596	596SB00602	SW846-META	Barium (Ba)	96.4000	32.0000	MG/KG
596	596	596SB00702	SW846-META	Barium (Ba)	33.7000	32.0000	MG/KG
596	596	596SB00602	SW846-SVOA	Benzo(a)anthracene	1300.0000	700.0000	UG/KG
596	596	596SB00602	SW846-SVOA	Chrysene	1800.0000	1000.0000	UG/KG
596	596	596SB00502	SW846-SVOA	Isophorone	1500.0000	200.0000	UG/KG
596	596	596SB00502	SW846-SVOA	N-Nitroso-di-n-propylamine	500.0000	200.0000	UG/KG
597	597	597SB00202	SW846-META	Barium (Ba)	36.8000	32.0000	MG/KG
598	598	598SB00102	SW846-META	Barium (Ba)	36.5000	32.0000	MG/KG
598	598	598SB00202	SW846-META	Barium (Ba)	72.5000	32.0000	MG/KG
598	598	598SB00302	SW846-META	Barium (Ba)	50.5000	32.0000	MG/KG
598	598	598SB00502	SW846-META	Barium (Ba)	37.4000	32.0000	MG/KG
598	598	598SB00302	SW846-SVOA	Benzo(a)anthracene	720.0000	700.0000	UG/KG
598	598	598SB00502	SW846-SVOA	Benzo(a)anthracene	1500.0000	700.0000	UG/KG
598	598	598SB00302	SW846-SVOA	Chrysene	1100.0000	1000.0000	UG/KG

Zone E Lower-Interval Soil Results Exceeding EPA Region III SSLs

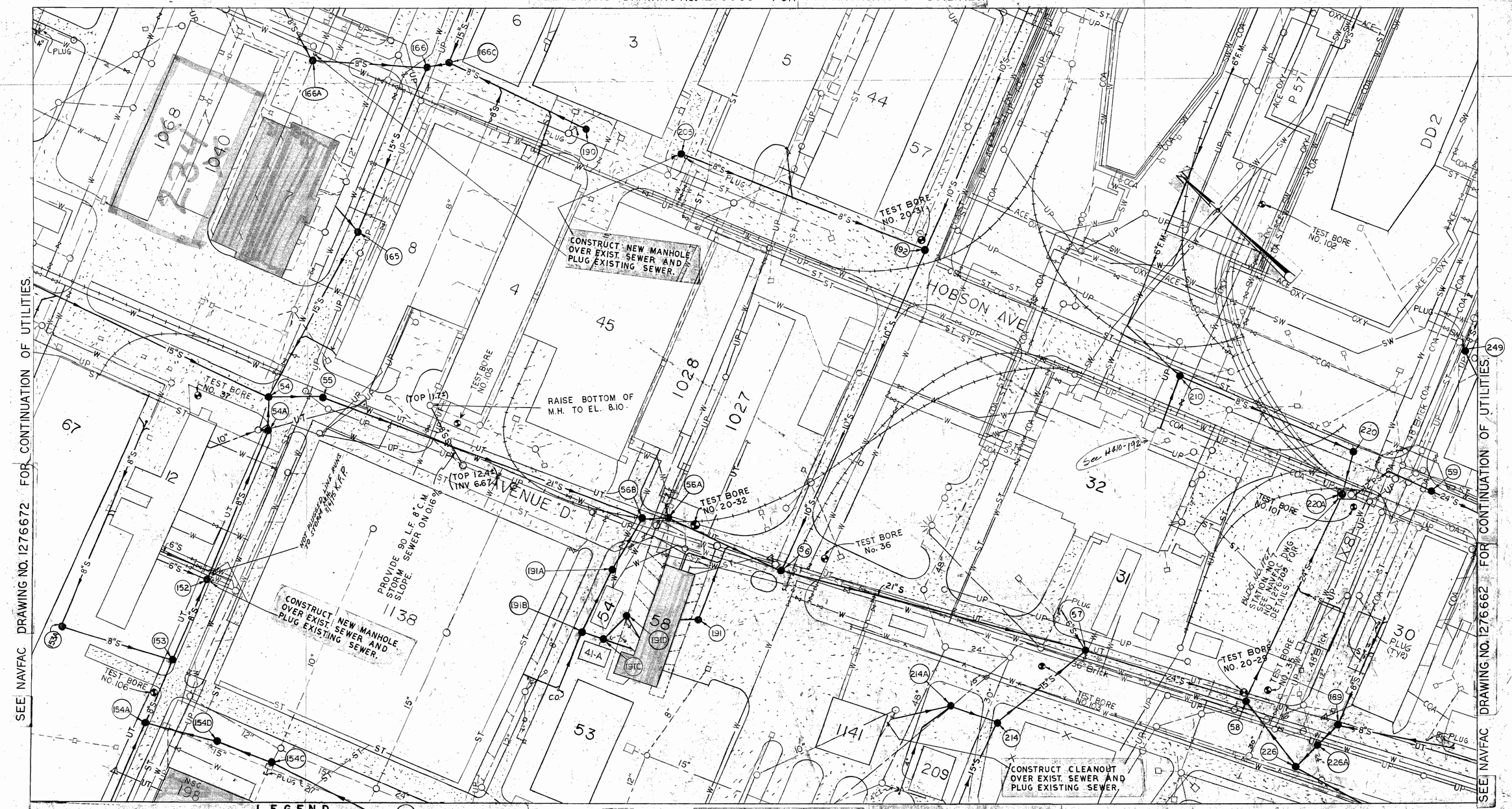
GROUP	SITE	SAMPLE ID	METHOD	PARAMETER	RESULT	SSL	UNITS
598	598	598SB00502	SW846-SVOA	Chrysene	1700.0000	1000.0000	UG/KG
598	599	599SB00102	SW846-META	Arsenic (As)	21.6000	15.0000	MG/KG
598	599	599SB00102	SW846-META	Barium (Ba)	36.5000	32.0000	MG/KG
598	599	599SB00502	SW846-META	Barium (Ba)	36.7000	32.0000	MG/KG
598	599	599SB00602	SW846-META	Barium (Ba)	43.9000	32.0000	MG/KG
Gridbased	GDE	GDESB00502	SW846-META	Arsenic (As)	22.6000	15.0000	MG/KG
Gridbased	GDE	GDESB00802	SW846-META	Arsenic (As)	21.3000	15.0000	MG/KG
Gridbased	GDE	GDESB01002	SW846-META	Arsenic (As)	26.3000	15.0000	MG/KG
Gridbased	GDE	GDESB01502	SW846-META	Arsenic (As)	23.6000	15.0000	MG/KG
Gridbased	GDE	GDESB00302	SW846-META	Barium (Ba)	44.1000	32.0000	MG/KG
Gridbased	GDE	GDESB00602	SW846-META	Barium (Ba)	34.7000	32.0000	MG/KG
Gridbased	GDE	GDESB00802	SW846-META	Barium (Ba)	40.8000	32.0000	MG/KG
Gridbased	GDE	GDESB01002	SW846-META	Barium (Ba)	33.5000	32.0000	MG/KG
Gridbased	GDE	GDESB01102	SW846-META	Barium (Ba)	37.3000	32.0000	MG/KG
Gridbased	GDE	GDESB01502	SW846-META	Barium (Ba)	91.0000	32.0000	MG/KG
Gridbased	GDE	GDESB01602	SW846-META	Barium (Ba)	60.9000	32.0000	MG/KG
Gridbased	GDE	GDESB00502	SW846-PEST	Dieldrin	10.0000	1.0000	UG/KG
Gridbased	GDE	GDESB02302	SW846-PEST	Dieldrin	4.9000	1.0000	UG/KG
Gridbased	GDE	GDESB01402	SW846-SVOA	Benzo(a)anthracene	1200.0000	700.0000	UG/KG
Gridbased	GDE	GDESB01502	SW846-SVOA	Benzo(a)anthracene	3400.0000	700.0000	UG/KG
Gridbased	GDE	GDESB01402	SW846-SVOA	Chrysene	1200.0000	1000.0000	UG/KG
Gridbased	GDE	GDESB01502	SW846-SVOA	Chrysene	3400.0000	1000.0000	UG/KG
S21	S21	S21SB00102	METALS	Barium (Ba)	38.0000	32.0000	MG/KG
S21	S21	S21SB00202	METALS	Barium (Ba)	62.0000	32.0000	MG/KG

Appendix L

Subsurface Distribution Lines in Zone E

REVISIONS				
LET	DESCRIPTION	PREP'D. BY	DATE	APPROVED
	CORRECTED TO AS-BUILT	BLUNDIN		GETTER

SEE NAVFAC DRAWING NO. 1276665 FOR CONTINUATION OF UTILITIES.



SEE NAVFAC DRAWING NO. 1276667 FOR CONTINUATION OF UTILITIES.

LEGEND

	EXISTING	NEW		EXISTING	NEW
UNDERGROUND TELEPHONE	—UT—		COMBINED SEWERS		
CONTOURS			SANITARY SEWERS		—8"S→
BITUMINOUS PAVING			SEWER MANHOLE	○	●—55
CONCRETE PAVING			DROP INLET	□	■
BUILDING	□		VALVE	—⋈—	
UNDERGROUND POWER	—UP—		WATER LINE	—W—	
PRESSURE SEWER		—12"PS—	STEAM	—ST—	
POLE, HEIGHT & CLASS	○		ELECTRIC MANHOLE	○	
STORM SEWER		—12"SS→	COMPRESSED AIR	—COA—	
OXYGEN	—OXY—		SALT WATER	—SW—	
ACETYLENE	—ACE—				

SEE NAVFAC DRAWING NO. 1276667 FOR CONTINUATION OF UTILITIES.

AREA INDEX

NOTE: INFORMATION ON BUILDING CONNECTIONS TAKEN FROM EXISTING MAPS AND PHYSICAL EVIDENCE ABOVE GROUND. CONTRACTOR SHALL VERIFY LOCATION AND GRADE OF ALL BUILDING CONNECTIONS PRIOR TO CONSTRUCTION OF ADJACENT SEWERS.

RECORD DRAWING
DATE 16 APR 1974
SHEET 25 OF 89

DATUM IS MEAN LOW WATER

NOTE: ALL SERVICES TO BE 4", UNLESS OTHERWISE NOTED.

H410—26

GRAPHIC SCALES
SCALE IN FEET
50 0 50 100

B.P. BARBER & ASSOC., INC.
COLUMBIA, S.C.
ENGINEERS
DES. Brown DR. McClellan CHK. Williams
SUPV. Williams CH. ENGR. Wray
SUBMITTED BY 4-12-68 DATE
FIRM MEMBER (TITLE)
SOEAST DIV. SPEC.-DESIGN DIVISION
P.D.E. Bailey DIR. Patterson
APPROVED DATE
OFFICER IN CHARGE
APPROVED FOR COMMAND DATE
EPD-FOR COMMANDER, NAVFAC

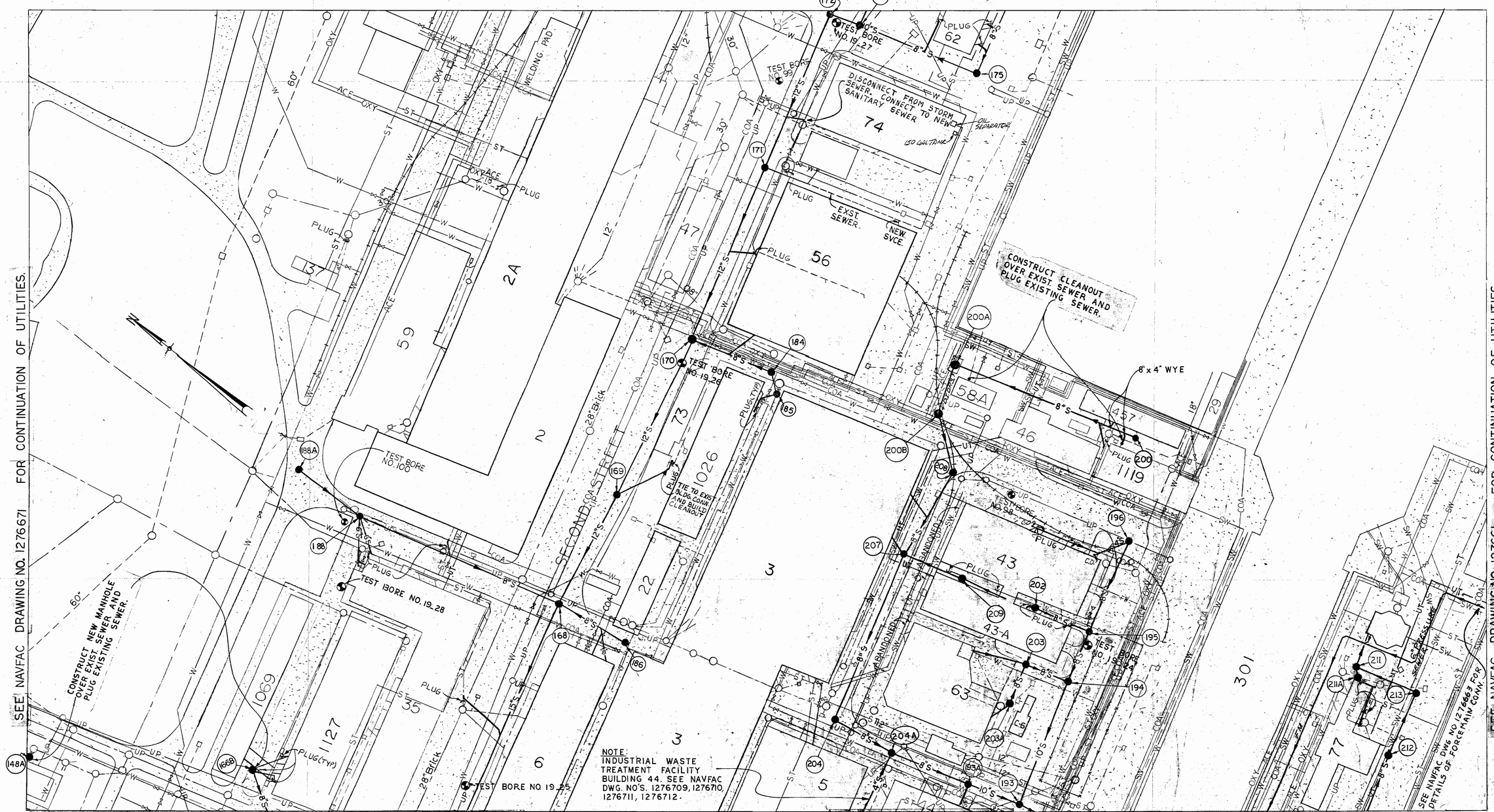
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
SOUTHEAST DIVISION
CHARLESTON, S. C.
NAVAL BASE CHARLESTON, S.C.
SANITARY & INDUSTRIAL SEWER SYSTEM
SITE PLAN AREA 20

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
F	80091	1276666

CONSTR. CONTR. NO. N62467-67-C-0344
SCALE 1" = 50' SPEC. 24-1410-0-B1 SHEET 25 OF 89

REVISIONS				
LET	DESCRIPTION	PREP'D BY	DATE	APPROVED
	CORRECTED TO AS-BUILT	BLANDIN	10/7/72	GETTER

SEE NAVFAC DRAWING NO. 1276664 FOR CONTINUATION OF UTILITIES.



SEE NAVFAC DRAWING NO. 1276666 FOR CONTINUATION OF UTILITIES

LEGEND

	EXISTING	NEW		EXISTING	NEW
CONTOURS			UNDERGROUND TELEPHONE	—UT—	
BITUMINOUS PAVING			COMBINED SEWERS		
CONCRETE PAVING			SANITARY SEWERS		—12"S—
BUILDING			SEWER MANHOLE		(172)
UNDERGROUND POWER	—UP—		DROP INLET		
GUY AND ANCHOR			VALVE		
POLE, HEIGHT & CLASS			WATER LINE	—W—	
STORM SEWER		—12"SS—	COMPRESSED AIR	—COA—	
OXYGEN	—OXY—		ELECTRIC MANHOLE		
STEAM	—ST—		SALT WATER	—SW—	
			ACETYLENE	—ACE—	

AREA INDEX

NOTE
INFORMATION ON BUILDING CONNECTIONS TAKEN FROM EXISTING MAPS AND PHYSICAL EVIDENCE ABOVE GROUND. CONTRACTOR SHALL VERIFY LOCATION AND GRADE OF ALL BUILDING CONNECTIONS PRIOR TO CONSTRUCTION OF ADJACENT SEWERS.

GRAPHIC SCALE
SCALE IN FEET
80 0 50 100

RECORD DRAWING
DATE 10 APR 1974
SHEET 24 OF 89

DATUM IS MEAN LOW WATER

NOTE: ALL SERVICES TO BE 4", UNLESS OTHERWISE NOTED.

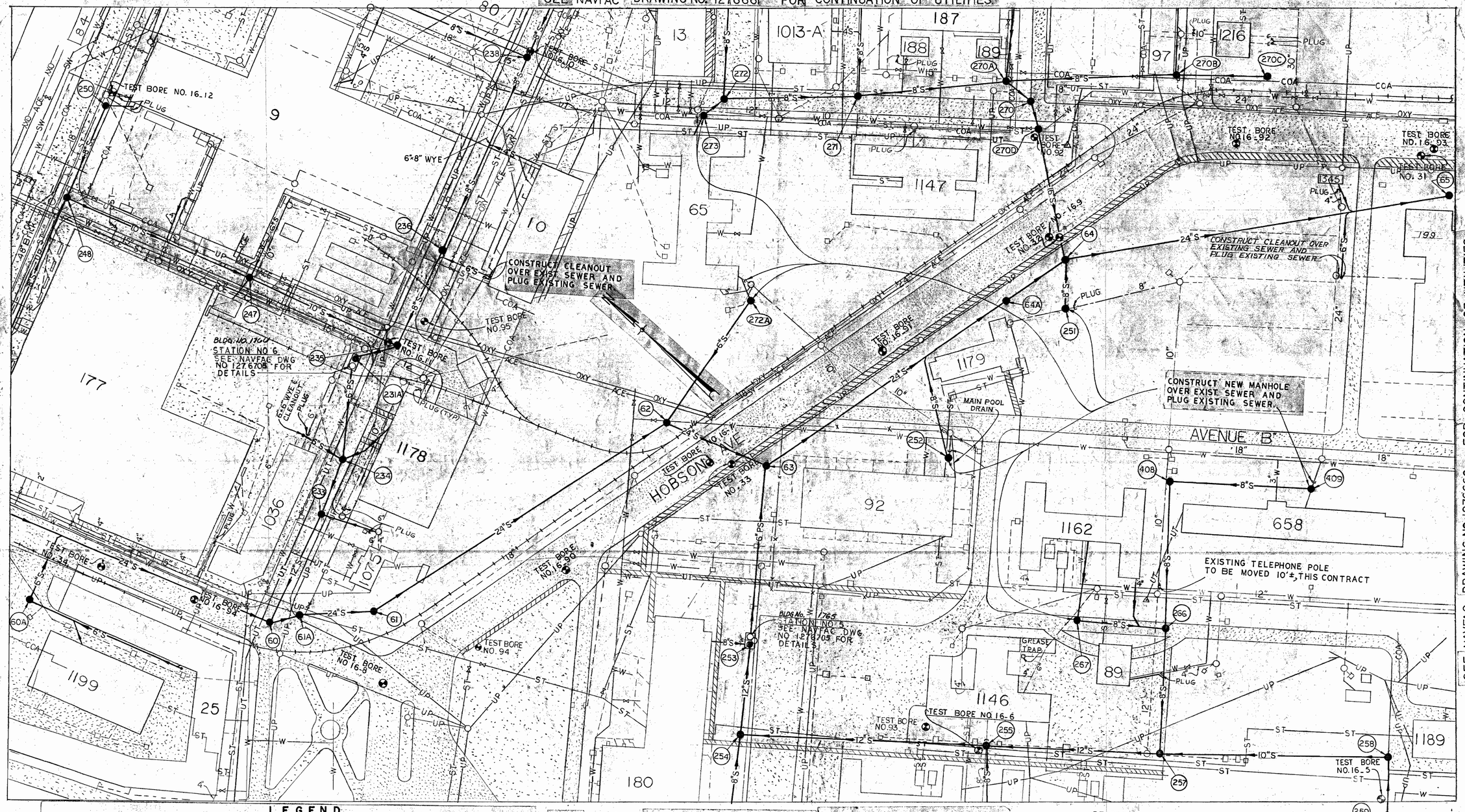
H410—25

B.P. BARBER & ASSOC., INC. COLUMBIA, S.C. ENGINEERS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST DIVISION CHARLESTON, S.C.
DES. BROWN DR. DEARIE CHK. WILLIAMS	NAVAL BASE CHARLESTON, S.C.
SUPV. (LEAD ENGR.) CH. ENGR. (ENGR.)	SANITARY & INDUSTRIAL SEWER SYSTEM
SUBMITTED BY 4-12-68 DATE	SITE PLAN AREA 19
SOEAST DIV. NFEC-DESIGN DIVISION	
FIRM MEMBER (TITLE)	
P.O.E. BRADLEY DIR.	
APPROVED DATE	SIZE F / CODE IDENT. NO. 80091 / NAVFAC DRAWING NO. 1276665
OFFICER IN CHARGE	
APPROVED FOR COMMAND DATE	CONSTR. CONTR. NO. N62467 67 C 0344
FOR COMMANDER, NAVFAC	SCALE 1" = 50' / SPEC. 04/Alpha 21 / SHEET 24 OF 89

REVISIONS				
LET	DESCRIPTION	PREP'D. BY	DATE	APPROVED
	CORRECTED TO AS-BUILT	BLANDINO	10/17/72	GETTER

SEE NAVFAC DRAWING NO. 127666I FOR CONTINUATION OF UTILITIES

SEE NAVFAC DRAWING NO. 127 6666 FOR CONTINUATION OF UTILITIES



SEE NAVFAC DRAWING NO. 1276660 FOR CONTINUATION OF UTILITIES

SEE NAVFAC DRAWING NO. 1276663 FOR CONTINUATION OF UTILITIES

LEGEND

	EXISTING	NEW		EXISTING	NEW
UNDERGROUND TELEPHONE	—UT—				
CONTOURS			COMBINED SEWERS		
BITUMINOUS PAVING			SANITARY SEWERS		—8"S—
CONCRETE PAVING			SEWER MANHOLE	○	●(62)
BUILDING	□		DROP INLET	□	■
UNDERGROUND POWER	—UP—		VALVE		
PRESSURE SEWER		—6"PS—	WATER LINE	—W—	
POLE, HEIGHT & CLASS	♀		SALT WATER	—SW—	
STORM SEWER		—8"SS—	ELECTRIC MANHOLE	○	
STEAM	—ST—		ACETYLENE	—ACE—	
COMPRESSED AIR	—COA—		OXYGEN	—OXY—	

AREA INDEX

NOTE:
INFORMATION ON BUILDING CONNECTIONS TAKEN FROM EXISTING MAPS AND PHYSICAL EVIDENCE ABOVE GROUND. CONTRACTOR SHALL VERIFY LOCATION OF ALL BUILDING CONNECTIONS PRIOR TO CONSTRUCTION OF ADJACENT SEWERS.

RECORD DRAWING
DATE 10 APR 1974
SHEET 21 OF 89

DATUM IS MEAN LOW WATER

NOTED: ALL SERVICES TO BE 4", UNLESS OTHERWISE NOTED.

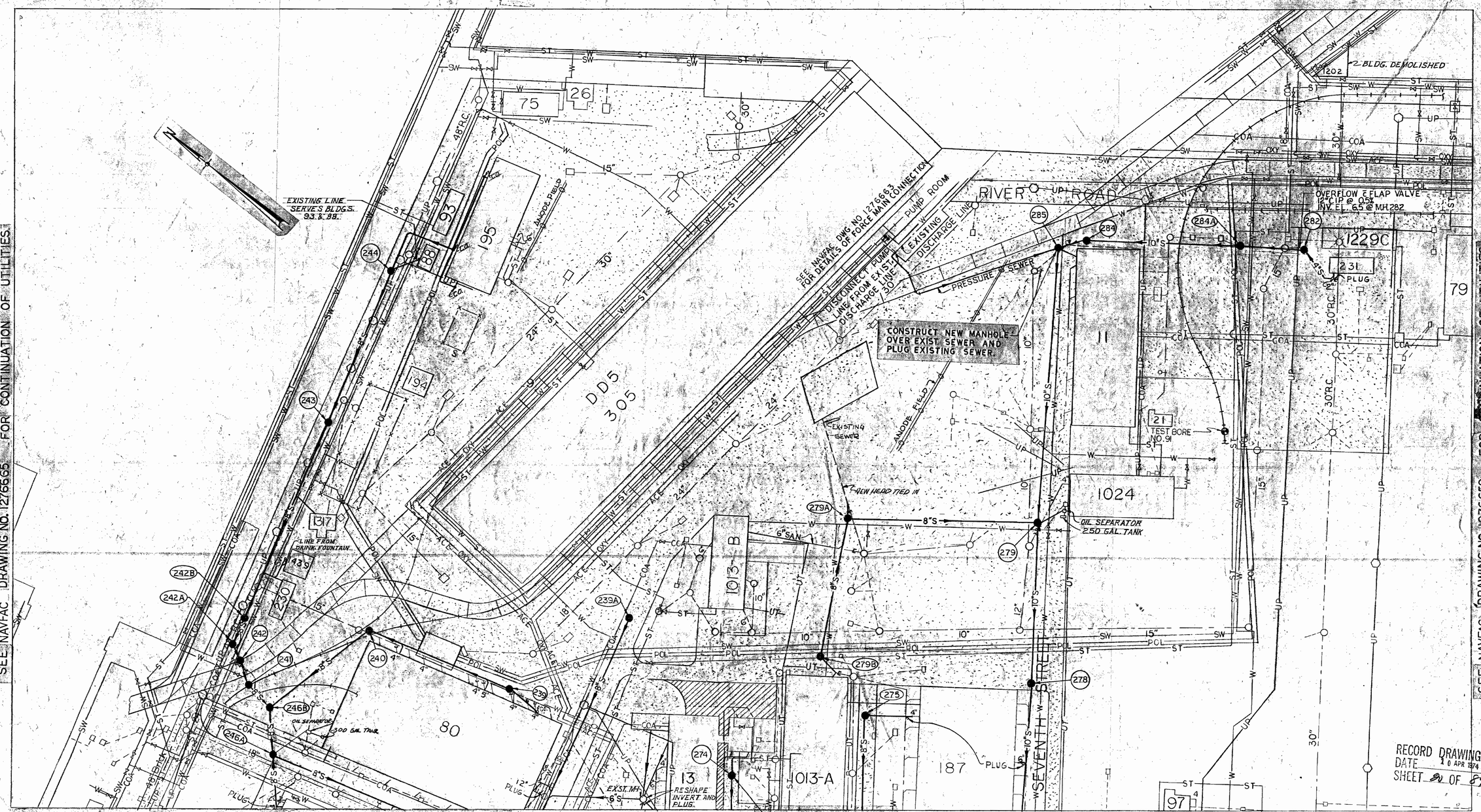
H410—22

GRAPHIC SCALES
SCALE IN FEET
50 0 50 100

B.P. BARBER & ASSOC., INC. COLUMBIA, S.C. ENGINEERS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST DIVISION CHARLESTON, S. C.
DES. Browne DR. Berrio CHK. Williamson	NAVAL BASE CHARLESTON, S.C.
SUPV. Williamson CH. ENGR. Wrenn	SANITARY & INDUSTRIAL SEWER SYSTEM
SUBMITTED BY 4-12-68 DATE FIRM MEMBER (TITLE)	SITE PLAN AREA 16
SOEAST DIV. NFEC—DESIGN DIVISION P.O.E. BRADLEY DIR.	SIZE F / CODE IDENT. NO. 80091 / NAVFAC DRAWING NO. 1276662
APPROVED DATE	CONSTR. CONTR. NO. N62467 67 C 0344
OFFICER IN CHARGE	SCALE 1"=50' / SPEC. 64-1/67-TOK-A / SHEET 21 OF 89
APPROVED FOR COMMAND DATE	
E.O. FOR COMMANDER, NAVFAC	

STANDARD PROPRIETARY INC. PORT WASHINGTON, N.Y.

REVISIONS.			
LET	DESCRIPTION	PREP'D. BY	APPROVED
	CORRECTED TO AS-BUILT	BLUNDIN	10/17/72 GETTER



LEGEND

	EXISTING	NEW
CONTOURS		
BITUMINOUS PAVING		
CONCRETE PAVING		
BUILDING		
UNDERGROUND POWER	—UP—	
ACETYLENE	—ACE—	
POLE, HEIGHT & CLASS		
STORM SEWER		—10"SS—
OXYGEN	—OXY—	
FUEL & OIL	—POL—	

	EXISTING	NEW
UNDERGROUND TELEPHONE	—UT—	
COMBINED SEWERS		
SANITARY SEWERS		—8"S—
SEWER MANHOLE		(241)
DROP INLET		
VALVE		
WATER LINE	—W—	
STEAM	—ST—	
ELECTRIC MANHOLE		
SALT WATER	—SW—	
COMPRESSED AIR	—COA—	

SEE NAVFAC DRAWING NO. 1276662 FOR CONTINUATION OF UTILITIES.

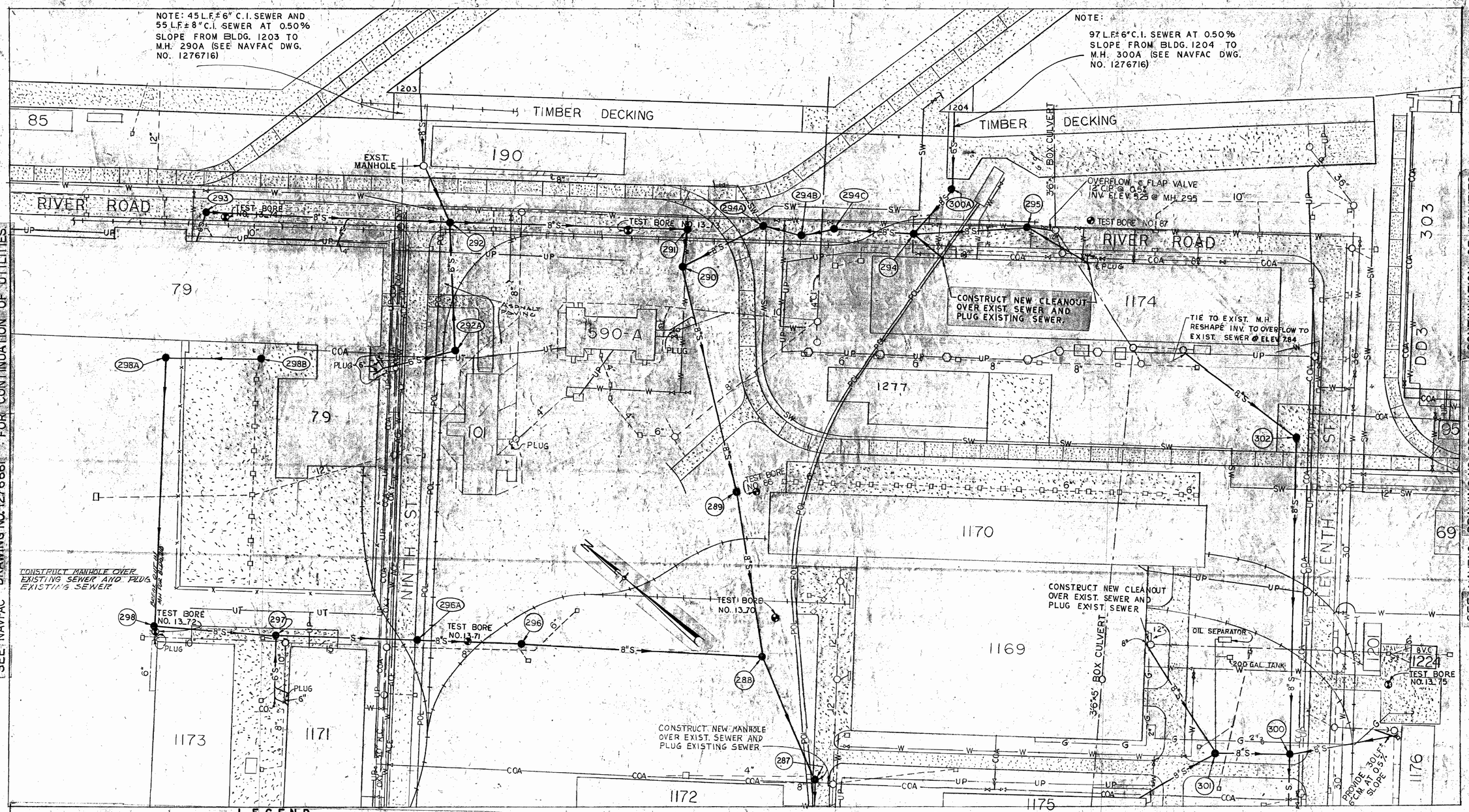
AREA INDEX

NOTE:
INFORMATION ON BUILDING CONNECTIONS TAKEN FROM EXISTING MAPS AND PHYSICAL EVIDENCE ABOVE GROUND. CONTRACTOR SHALL VERIFY LOCATION AND GRADE OF ALL BUILDING CONNECTIONS PRIOR TO CONSTRUCTION OF ADJENCT SEWERS.

GRAPHIC SCALES
SCALE IN FEET
50 0 50 100

B.P. BARBER & ASSOC., INC. COLUMBIA, S.C. ENGINEERS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST DIVISION CHARLESTON, S. C.
DES. Brown DR. MFCollier CHK. Williams	NAVAL BASE CHARLESTON, S.C.
SUPV. Williamson CH.ENGR. Wrenn	
SUBMITTED BY 4-12-68 DATE	SANITARY & INDUSTRIAL SEWER SYSTEM
FIRM MEMBER (TITLE)	SITE PLAN AREA 15
SOEAST DIV. NFEC-DESIGN DIVISION RDE DIR.	
APPROVED DATE	SIZE F · CODE IDENT. NO. 80091 · NAVFAC DRAWING NO. 1276661
OFFICER IN CHARGE	CONSTR. CONTR. NO. N62467 6700344
APPROVED FOR COMMAND DATE	SCALE 1" = 50' · SPEC 84113/6/TRAV-2 · SHEET 80 OF 89
EFD FOR COMMANDER, NAVFAC	

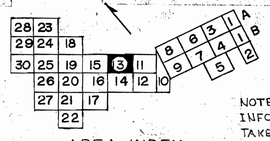
REVISIONS				
LET	DESCRIPTION	PREP'D. BY	DATE	APPROVED
	CORRECTED TO AS-BUILT	BONDON	10 17 72	GETTES
	[illegible]	[illegible]	[illegible]	[illegible]



LEGEND

	EXISTING	NEW		EXISTING	NEW
CONTOURS			COMBINED SEWERS		
BITUMINOUS PAVING			SANITARY SEWERS		—8"S—
CONCRETE PAVING			SEWER MANHOLE		(291)
BUILDING			DROP INLET		
UNDERGROUND POWER	—UP—		VALVE		
FUEL & OIL	—POL—		WATER LINE		—W—
POLE, HEIGHT & CLASS			FENCE		—X—
STORM SEWER		—10"S—	ELECTRIC MANHOLE		
COMPRESSED AIR	—COA—		ACETYLENE	—ACE—	
OXYGEN	—OXY—		SALT WATER	—SW—	
GAS	—G—		UNDERGROUND TELEPHONE	—UT—	

SEE NAVFAC DRAWING NO. 1276660 FOR CONTINUATION OF UTILITIES.



AREA INDEX

NOTE:
INFORMATION ON BUILDING CONNECTIONS TAKEN FROM EXISTING MAPS AND PHYSICAL EVIDENCE ABOVE GROUND. CONTRACTOR SHALL VERIFY LOCATION AND GRADE OF ALL BUILDING CONNECTIONS PRIOR TO CONSTRUCTION OF ADJACENT SEWERS.

GRAPHIC SCALES
SCALE IN FEET
50 0 50 100

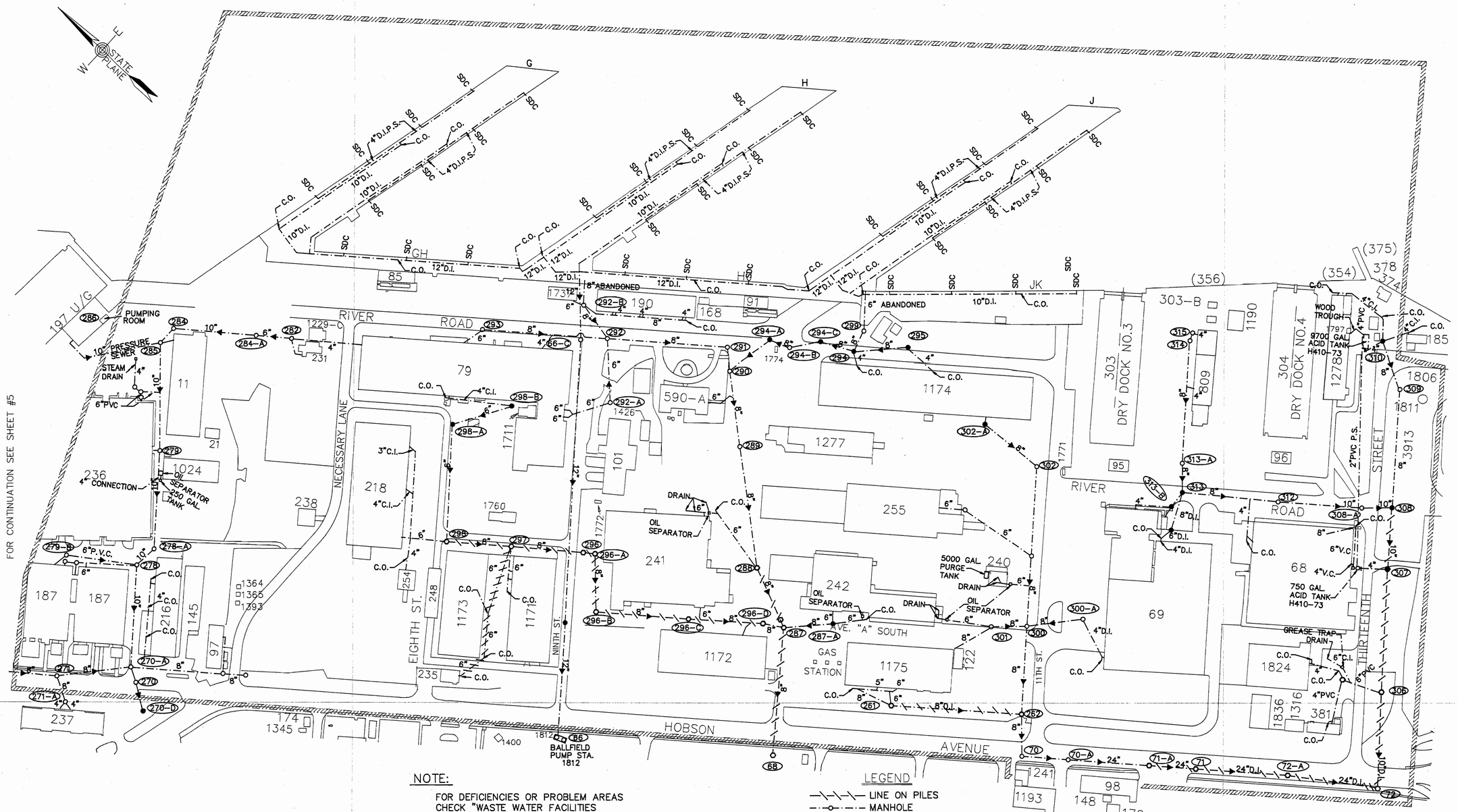
RECORD DRAWING
DATE 10 APR 1974
SHEET 18 OF 89

DATUM IS MEAN LOW WATER

NOTE: ALL SERVICES TO BE 4", UNLESS OTHERWISE NOTED.

H410—19

B.P. BARBER & ASSOC., INC. COLUMBIA, S.C. ENGINEERS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST DIVISION CHARLESTON, S.C.
DES. Brooks DR. McClellan CHK. Williams	NAVAL BASE CHARLESTON, S.C.
SUPV. Williams CH. ENGR. Wood	
SUBMITTED BY 4-12-68 DATE FIRM MEMBER (TITLE)	SANITARY & INDUSTRIAL SEWER SYSTEM
SOEAST DIV. NFEC-DESIGN DIVISION P.O.E. BRADLEY DIR.	SITE PLAN AREA 13
APPROVED DATE	SIZE F / CODE IDENT. NO. 80091 / NAVFAC DRAWING NO. 1276669
OFFICER IN CHARGE	
APPROVED FOR COMMAND DATE	CONSTR. CONTR. NO. N62467-67 C-0344
EPD-FOR COMMANDER, NAVFAC	SCALE 1" = 50' / SPEC. [illegible] / SHEET 18 OF 89



FOR CONTINUATION SEE SHEET #5

FOR CONTINUATION SEE SHEETS 8,9

NOTE:

FOR DEFICIENCIES OR PROBLEM AREAS CHECK "WASTE WATER FACILITIES EVALUATION REPORT" CONTRACT # N62467-88-D-1604 BY DAVIS & FLOYD MARCH 1990

NOTES:

ALL BUILDING SEWERS ARE 4" UNLESS OTHERWISE NOTED.

ALL PIPES ARE V.C. UNLESS OTHERWISE NOTED.

LEGEND

- LINE ON PILES
- MANHOLE
- MANHOLE-ESTIMATED LOCATION
- MANHOLE ON PILES
- LIFT STATION
- SANITARY SEWER
- PLUG
- DIRECTION OF FLOW
- SEPTIC TANK
- P.S. PRESSURE SEWER
- C.O. CLEAN OUT
- C.I. CAST IRON
- D.I. DUCTILE IRON
- S.D.C. SHIP DRAINAGE CONNECTION
- V.C. VITRIFIED CLAY
- P.V.C. POLYVINYL CHLORIDE
- PP POLYPROPYLENE

AREA LIMITS

AREA INDEX

GRAPHIC SCALE 100 0 50 100 200 300

SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

P.W. DWG. NO. H410-239

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

CHARLESTON NAVAL SHIPYARD, CHARLESTON, S.C.

DESIGNED:
DRAWN: SIMMS
SECT. HD.:
BR. MGR.: T.W. Brinson
APPROVED: T.W. Brinson 6/6/94
DIRECTOR ENGR. DIVISION — DATE
APPROVED:
OFFICER IN CHARGE — DATE
SATISFACTORY TO:
DATE

SEWAGE COLLECTION SYSTEM
AREA-6
APRIL 1994

REQUEST NO.
NAV FAC DRAWING NO.
CONSTR CONTR NO.
SCALE 1"=100'
SPEC
SHEET 6 OF 14

FOR CONTINUATION SEE SHEET #7

CNSY-1-1012 1C (Rev. 12-82)

NOTE:

FOR DEFICIENCIES OR PROBLEM AREAS CHECK "WASTE WATER FACILITIES EVALUATION REPORT" CONTRACT # N62467-88-D-1604 BY DAVIS & FLOYD MARCH 1990

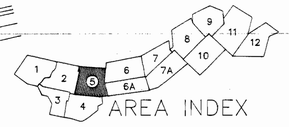
LEGEND

- LINE ON PILES
- MANHOLE
- MANHOLE-ESTIMATED LOCATION
- MANHOLE ON PILES
- LIFT STATION
- SANITARY SEWER
- PLUG
- DIRECTION OF FLOW
- SEPTIC TANK
- P.S.----- PRESSURE SEWER
- C.O.----- CLEAN OUT
- C.I. ----- CAST IRON
- D.I. ----- DUCTILE IRON
- S.D.C.--- SHIP DRAINAGE CONNECTION
- V.C.----- VITRIFIED CLAY
- P.V.C.--- POLYVINYL CHLORIDE
- PP ----- POLYPROPYLENE
- AREA LIMITS

NOTES:

ALL BUILDING SEWERS ARE 4" UNLESS OTHERWISE NOTED.
ALL PIPES ARE V.C. UNLESS OTHERWISE NOTED.

100 0 50 100 200 300
GRAPHIC SCALE



AREA INDEX

AREA 5

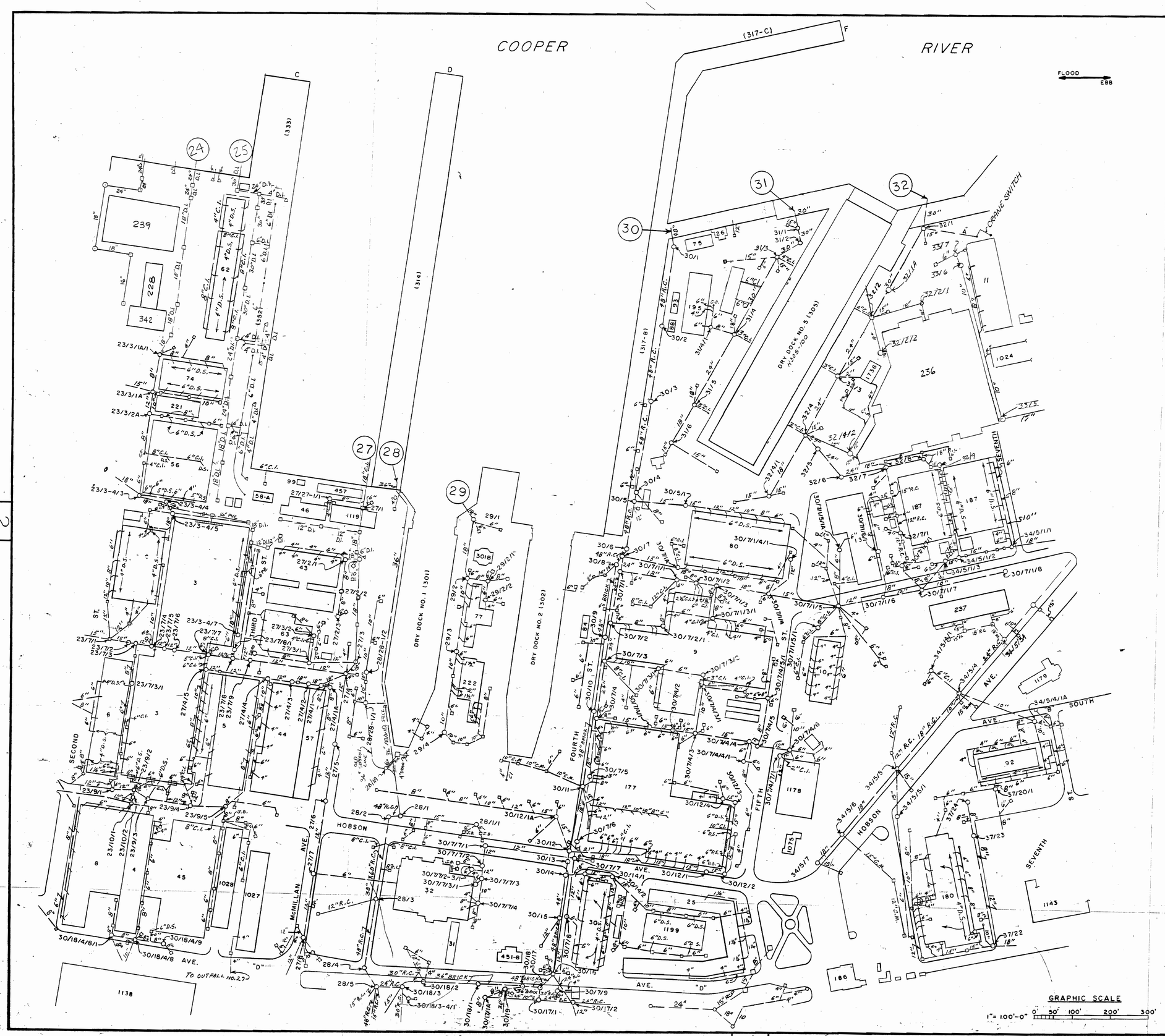
SYMBOL	DESCRIPTION	DATE	APPROVAL

REVISIONS

W. DWG. NO. H410-238	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
DESIGNED:	CHARLESTON NAVAL SHIPYARD, CHARLESTON, S.C.
DRAWN: SIMMS	SEWAGE COLLECTION SYSTEM
SECT. HD. —	AREA-5
BR. MGR.: T. W. Brimson	FEBRUARY 1995
APPROVED: T.W. Brimson 6/6/94	
DIRECTOR ENGR DIVISION DATE	
APPROVED:	
OFFICER IN CHARGE DATE	REQUEST NO. / NAV. FAC. DRAWING NO.
SATISFACTORY TO:	CONSTR. CONTR. NO.
DATE	SCALE 1"=100' / SPEC. / SHEET 5 OF 14

FOR CONTINUATION SEE SHEETS 6,7

REVISIONS				
SYM	DESCRIPTION	MADE BY	DATE	APPROV
–	UPDATE	GDM	7/18/83	[illegible]



LEGEND

—o—	MANHOLE.
30/7	MANHOLE NUMBER (OUTFALL NO. MANHOLE NO.)
—□—	CATCH BASIN.
C.O.	CLEAN OUT.
D.S.	DOWN SPOUT.
(30)	OUTFALL NUMBER.
R.C.	REINFORCED CONCRETE.
C.M.	CORRUGATED METAL.
4	MATCH SHEET AREA NO.
D.I.	DUCTILE IRON
△	STEAM TRENCH DRAIN

NOTE:

ALL LINES ARE V.C. UNLESS OTHERWISE NOTED.

GRAPHIC SCALE

1" = 100'-0" 0 50' 100' 200' 300'

P. W. DWG. NO. H409-75	DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
DESIGNED:	CHARLESTON NAVAL SHIPYARD, CHARLESTON, S.C.
DRAWN: DUKE	STORM DRAINAGE
CHECKED: SEAY	AREA NO. 5
DIR. INSP.: 4/3/75	
APPROVED: 4/3/75	
DIRECTOR DESIGN DIVISION — DATE	
APPROVED: 4/3/75	
OFFICER IN CHARGE — DATE	
SATISFACTORY TO: 4/4/75	SIZE F — CODE IDENT NO. — NAV. FAC DRAWING NO.
DATE	CONSTR. CONTR. NO.
	SCALE 1" = 100' — SPEC — SHEET 5 OF

FILE COPY

Appendix M

Building 44 (SWMU 25) Completion Report

COMPLETION REPORT

PROCESS CLOSURE / DEMOLITION FOR
SWMU 25 (BUILDING 44 ANNEX)
NAVAL BASE CHARLESTON
CHARLESTON, SC

Prepared for:

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

Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

June 30, 1997

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN
PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON
1899 NORTH HOBSON AVENUE, BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:
Ser: 1063
OCT 30 1997

From: Director, Supervisor of Shipbuilding, Conversion and Repair, USN, Portsmouth, VA, Environmental Detachment Charleston (SPORTENVDETCHASN)
To: Commanding Officer, Southern Division Naval Facilities Engineering Command (Code 18 - Hayes Patterson)

Subj: COMPLETION REPORT FOR PROCESS CLOSURE OF BUILDING 44 ANNEX (SWMU 25), PROJECT NUMBER C96018

Encl: (1) Completion Report Process Closure/Demolition for SWMU 25 (Building 44 Annex) Naval Base Charleston, Charleston, SC

1. Subject report was delivered to Southern Division, Naval Facilities Engineering Command on June 30, 1997 for review and comment. There were no comments generated or received by SPORTENVDETCHASN, therefore the report is issued as complete.

2. Questions regarding this report may be directed to Danny Hughes at 743-6777 ext. 122, or Kevin Tunstall at ext. 227.

for MK Tunstall
E.R. DEARHART

Copy to:
Ensafe, Inc. (Todd Havercost)

COMPLETION REPORT

PROCESS CLOSURE / DEMOLITION FOR
SWMU 25 (BUILDING 44 ANNEX)
NAVAL BASE CHARLESTON
CHARLESTON, SC

Prepared for:

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

Prepared by:

Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106

June 30, 1997

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ACRONYM LIST

AOC	Area of Concern
BEQ	Benzo(a)pyrene Equivalents
CNCRA	Charleston Naval Complex Redevelopment Authority
CMS	Corrective Measure Study
COPC	Constituents of Potential Concern
DERP	Defense Environmental Restoration Program
DON	Department of the Navy
DQO	Data Quality Objective
EOX	Extractable Organic Halides
EPA	U.S. Environmental Protection Agency
IM	Interim Measure
IR	Installation Restoration
RBC	Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SARA	Superfund Amendments and Restoration Act
SCDHEC	South Carolina Department of Health and Environmental Control
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SPORTENVDETCHASN	Supervisor of Shipbuilding, Conversion and Repair, Portsmouth VA, Environmental Detachment Charleston
SWMU	Solid Waste Management Unit

1. INTRODUCTION

1.1 INSTALLATION RESTORATION PROGRAM. The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize, and cleanup or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of the DERP.

1.1.1 Naval Base Charleston IR Program. At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMU) and Areas of Concern (AOC) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing hazardous wastes requiring remediation. Eventually, Corrective Measures Studies (CMS) will be prepared to determine the best means of remediating the site.

1.2 SOLID WASTE MANAGEMENT UNIT 25. SWMU 25 is the site of a former electroplating facility associated with Building 44 which is located in Zone E. The electroplating facility occupied two rooms in the northwest portion of Building 44 which connected to an annex. The electroplating facility is bordered on the north by Building 5, on the south by Building 44, on the east by Avenue B, and on the west by Hobson Avenue. The facility contained approximately 40 metal tanks that contained the solutions used in the plating process. These tanks and associated equipment were removed in 1995 during the closure operations of Charleston Naval Shipyard.

1.3 BUILDING 44 DEMOLITION. During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair, Portsmouth VA, Environmental Detachment Charleston (SPORTENVDETCHASN). To facilitate the sampling effort for the RFI, a process closure action to demolish and remove the building was deemed necessary prior to implementation of any interim measure action. The objective of this process closure action was to demolish the annex, since it was considered unsafe, and to allow access to the soil underneath the building. This action was consistent with the ultimate cleanup of SWMU 25 and was not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORK PLAN. Clean the rooms located in Building 44. Remove the asbestos roof coating and the asbestos pipe from the annex. Demolish and remove the annex, floor slab and in ground electrical utility manhole. See Appendix A for site location.

2.2 PROBLEMS ENCOUNTERED.

2.2.1 HIGH VOLATGE UTILITY MANHOLE. The electrical utility manhole, shown in Appendix B (Figure B-1), could not be removed as planned. After the removal of the annex floor and pump down of the water which filled the manhole, it was discovered that seven electrical cables traversed through the manhole, three of which were high voltage (13,200 volts). South Carolina Electric and Gas Co. was requested to determine if the cables in the manhole were energized. Drawings do not show origin or destination of the cables passing through this manhole. None of the SCE&G employees were Hazardous Worker Operations (HAZWOPER) qualified to enter the site to inspect the manhole, nor was their contractor who performs gas free testing of enclosed spaces. Since no one was able to determine the status of the electrical lines no attempt was made to cut the cables in order to remove the manhole. Also, it was discovered that concrete conduits encased the cables leading to and from the manhole. These conduits were not part of the original plan, but should be considered for removal along with the manhole during any follow up action.

2.2.2 ADDITONAL VOLUME OF HAZARDOUS WASTE. After the removal of the asbestos roofing material, it was revealed that areas of the roof contained chromium contamination. Samples taken proved the roof contained chromium above 5 parts per million (ppm) Toxic Characteristic Leaching Process (TCLP). Furthermore, the concrete columns inside the annex could not be cleaned by pressure washing as detailed in the plan. Sample analysis of a column after pressure washing also indicated levels of chromium above 5 ppm TCLP.

Additional debris was encountered in the cleaning room of the annex due to two concrete floors, one on the top of the other. This double floor was not indicated on any drawings but was removed along with the top flooring with a minor amount of additional effort.

The concrete roof, beams, purlins, interior columns and double concrete floor added significantly to the amount of hazardous waste removed during the demolition.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION. Modified the work plan to leave electrical utility manhole.

3. INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK. On 11 April 1997, after completion of work, SPORTENVDETCHASN had removed 396 tons of building material from SWMU 25. The door ways from Building 44 into the annex were filled with concrete block and the annex area covered with plastic sheeting to prevent water infiltration and runoff. An electrical vault that was adjacent to the annex in the alley has been identified as being contaminated with chromium. Several areas of concrete outside the annex have the visual appearance of being contaminated.

3.2 AREAS REQUIRING FURTHER ACTION. The electrical utility manhole and associated concrete conduit need to be removed if any evacuation at the site is deemed required by the RFI.

4. SAMPLING

4.1 SAMPLING EVOLUTIONS AND RESULTS. Initial sampling was conducted to determine the areas of contamination for accessing waste volume. Additional samples were taken to verify cleaning evolutions and to test areas previously indiscernible as contaminated. Initial sampling included walls, floors, drains, trenches and concrete columns. Additional sampling included the concrete roof, beams and purlins. Sample results are included in Appendix B.

5. WASTE GENERATION

5.1 HAZARDOUS/POTENTIALLY HAZARDOUS WASTE. The hazardous waste identified below in paragraph 5.1.1 was packaged at the work site for disposal. A less than 90 day storage area was created to accumulate the waste at the site as the building was being demolished. The less than 90 day storage area met the requirements of the South Carolina Department of Health and Environmental Control (SCDHEC) regulations R.61-79.265. See Appendix C for shipping manifest.

5.1.1 Hazardous Waste. Between 26 February 1997 and 1 April 1997 twenty three shipments, for a total of 330.09 tons, of contaminated building material was packed in 20 cubic yard roll offs and transported to Laidlaw Environmental Services of South Carolina, Inc. for disposal. The disposal site was located in Pinewood, SC at a Title "C" landfill and the disposal made under license number N9702076.

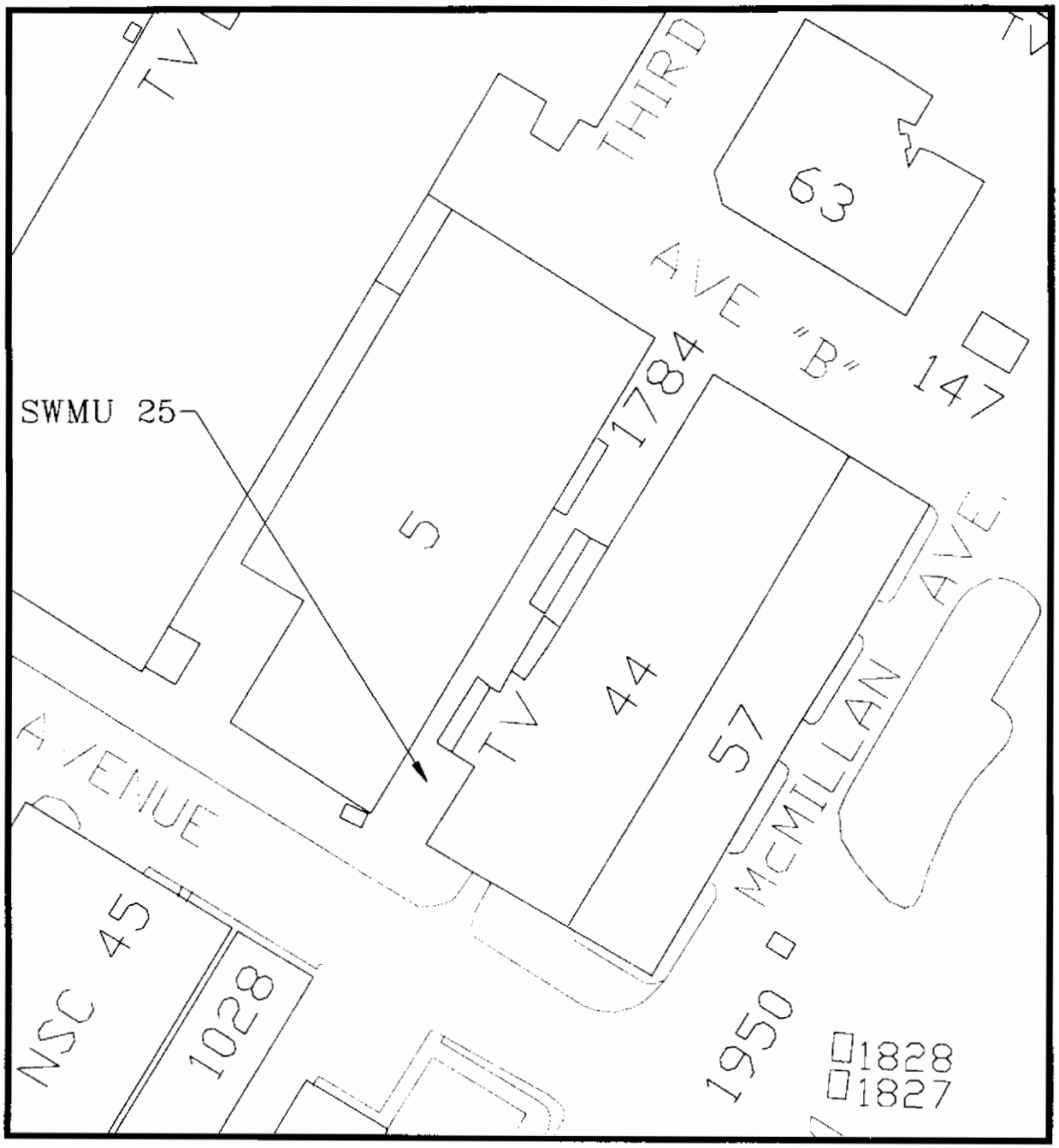
5.1.2 Asbestos Waste. One shipment of asbestos containing material (5.96 Tons) was transported by Fennel Container Company, Inc. to Chambers Oakridge Landfill located in Dorchester County, South Carolina under license number SC N9612040 on 21 February 1997.

5.2 NON-HAZARDOUS WASTE. A total of 60 tons of non-hazardous construction material was removed from the site and transported to Charleston County Landfill on Bees Ferry Road.

APPENDIX A

SITE MAP

FIGURE A-1
SWMU 25 SITE MAP



APPENDIX B

SAMPLE DATA

FIGURE B-1
SAMPLE LOCATIONS

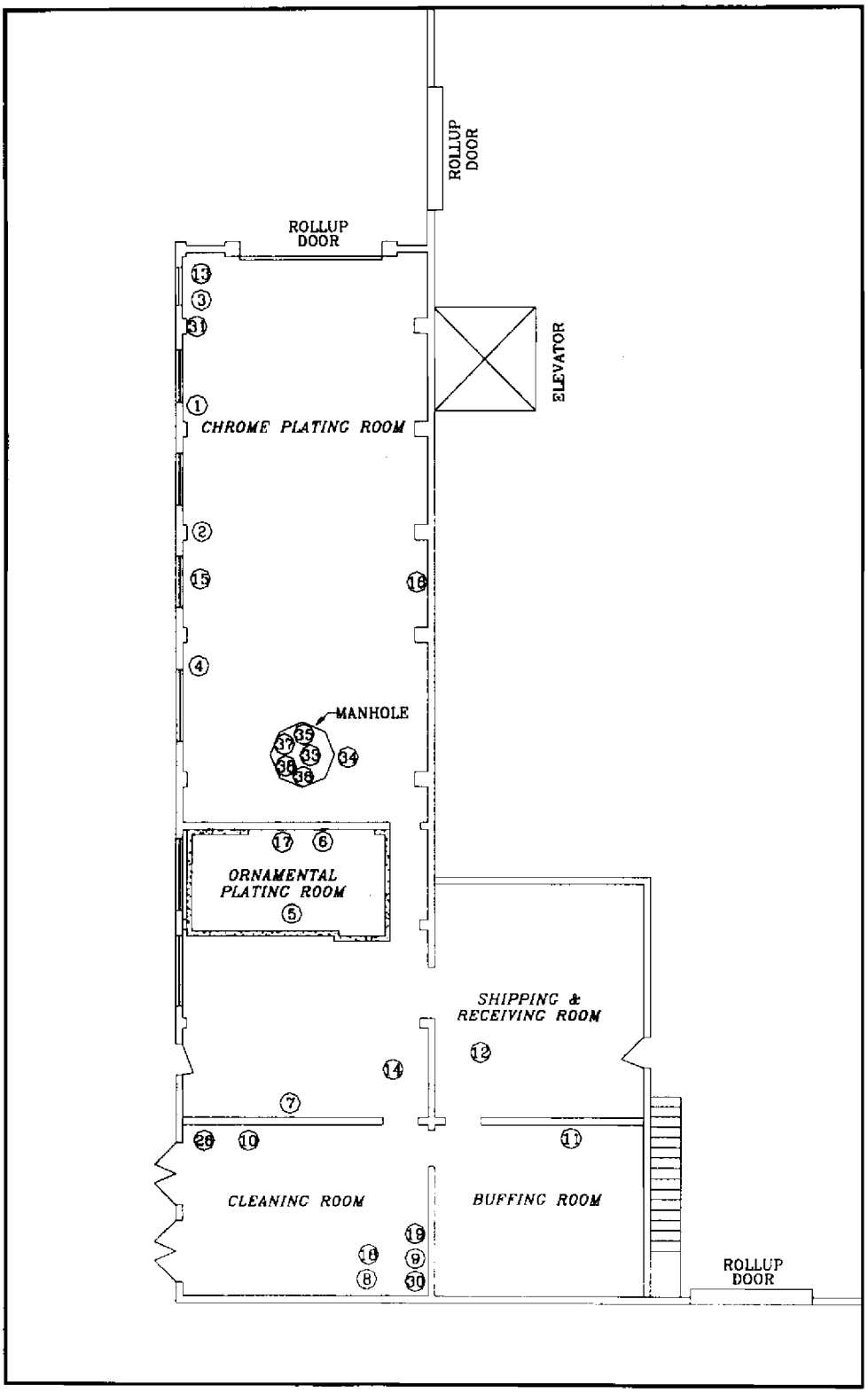


FIGURE B-1 Con't
SAMPLE LOCATIONS

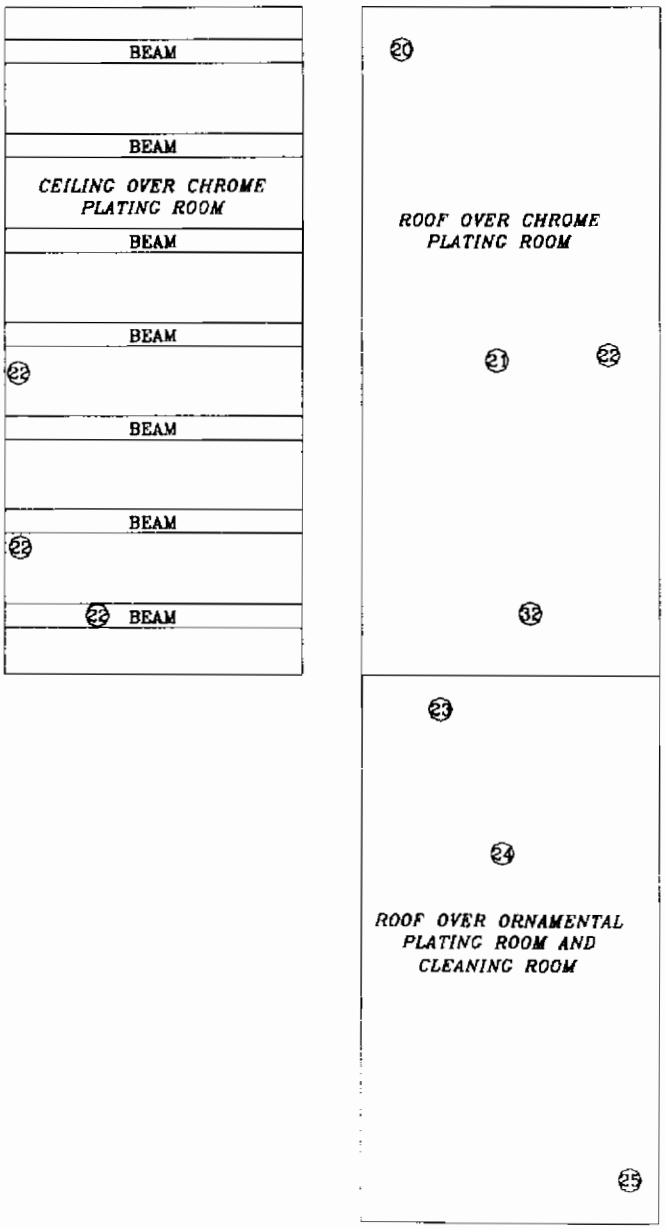


TABLE B-1

BUILDING 44 ANNEX DEMOLITION SAMPLE IDENTIFICATION

LOCATION	SAMPLE ID #	TYPE OF ANALYSIS	TYPE OF SAMPLE	DESCRIPTION OF SAMPLE LOCATION
1	SPORT0120-1	TCLP	CONCRETE	North wall 2' up, 12' from East wall
2	SPORT0120-2	TCLP	CONCRETE	North wall 8' high, 18' from East wall
3	SPORT0120-3	TCLP/RCRA METALS/ HEXAVALENT CHROMIUM	CONCRETE	Floor
4	SPORT0120-4	TCLP	CONCRETE	Bottom block 16' from West wall
5	SPORT0120-5	TCLP	DRAIN RESIDUE	
6	SPORT0120-6	TCLP	CONCRETE	Bottom block 14' from North wall
7	SPORT0120-7	TCLP	CONCRETE	Middle block 5' high, 10' from North wall
8	SPORT0120-8	TCLP	CONCRETE	Bottom block 18' from North wall
9	SPORT0120-9	TCLP	CONCRETE	Floor
10	SPORT0120-10	TCLP	CONCRETE	Middle block 5' high, 6' from North wall
11	SPORT0120-11	TCLP/RCRA METALS	TRENCH RESIDUE	Trench in buffing room
12	SPORT0120-12	TCLP/RCRA METALS	TRENCH RESIDUE	Trench in shipping and receiving room
13	SPORT0120-13	TCLP/RCRA METALS/ HEXAVALENT CHROMIUM	CONCRETE	Duplicate of #3
14	SPORT0120-14	TCLP/RCRA METALS	DRAIN RESIDUE	Residue from drain
15	SPORT0122-1	TCLP	CONCRETE	8' high, 25' from East wall
16	SPORT0122-2	TCLP	CONCRETE	2' high, 23' from East wall
17	SPORT0122-3	TCLP	CONCRETE	8' high, 14' from North wall
18	SPORT0122-4	TCLP	CONCRETE	8' high, 18' from North wall
19	SPORT0122-5	TCLP	CONCRETE	3' high, 3' from South wall
20	SPORT0131-1	ASBESTOS	TAR	Roof coating north east corner upper roof
21	SPORT0131-2	ASBESTOS	TAR	Roof coating center of upper roof
22	SPORT0131-3	ASBESTOS	TAR	Roof coating south end center upper roof
23	SPORT0131-4	ASBESTOS	TAR	Roof coating north east side lower roof
24	SPORT0131-5	ASBESTOS	TAR	Roof coating east side center lower roof
25	SPORT0131-6	ASBESTOS	TAR	Roof coating south west corner lower roof
26	SPORT0199-1	PCB	CONCRETE	Cleaning room
27	SPORT0328-1	TCLP	CONCRETE	Column after cleaning
28	SPORT0328-2	TCLP	CONCRETE	Upper roof
29	SPORT0356-1	TCLP	CONCRETE	Roof beam

TABLE B-1 Con't

BUILDING 44 ANNEX DEMOLITION SAMPLE IDENTIFICATION

LOCATION	SAMPLE ID #	TYPE OF ANALYSIS	TYPE OF SAMPLE	DESCRIPTION OF SAMPLE LOCATION
30	SPORT0356-2	TCLP	CONCRETE	Roof beam
31	SPORT0356-3	TCLP	CONCRETE	Roof beam
32	SPORT0357-1	RCRA METALS	SOIL	Under grade block
33	SPORT0390-1	TCLP/RCRA METALS/ CYANIDE	SOIL	Inside vault
34	SPORT0390-2	TCLP/RCRA METALS/ CYANIDE	SOIL	Outside vault
35	SPORT0390-3	TCLP/RCRA METALS/ CYANIDE	SOIL	Floor residue inside vault
36	SPORT0390-4	RCRA METALS	SWIPE	Swipe of conduit pipe
37	SPORT0392-1	TCLP	WATER	Rinsate from vault pump down
38	SPORT0405-1	pH/NPDES METALS/ HEXAVALENT CHROMIUM, CYANIDE, OIL & GREASE	WATER	Water from vault pump down

APPENDIX C

SHIPPING MANIFEST

CHARLESTON ENVIRONMENTAL DETACHMENT
MANIFEST # 6

ASBESTOS CHAIN-OF-CUSTODY FORM

(TRIP TICKET)

This form should be completed and copies kept by each party involved.

CONTRACTING COMMAND

NAME: OFFICER IN CHARGE OF CONSTRUCTION
ADDRESS: 2316 REDBANK ROAD, SUITE 100
CITY: GOOSE CREEK STATE: SC ZIP: 29405 PHONE: (803) 743-8888

LIC. # SC N9612040 (ATTACHED)

PICK-UP SITE

NAME: (BUILDING 44 ANNEX) ENVIRONMENTAL DETACHMENT CHAS.
ADDRESS: 1899 NO. HOBSON AV.
CITY: NO. CHARLESTON STATE: SC ZIP: 29405-2106 PHONE: (803) 743-6777
ESTIMATED QUANTITY OF ASBESTOS WSTE: BLDG 44 ANNEX 2622 SQFT, BLDG-132 3LNFT, VIADUCT RD. 170 LN FT
TYPE OF CONTAINER USED: BAG TOTAL # OF CONTAINERS USED: 1
DESIGNATION OF WASTE: ASBESTOS
SIGNATURE (AUTHORIZED TO RELEASE WASTE): J. DORAN DATE: 2-21-97
J. L. Doran (09, 09A OR 098)

TRANSPORTER

NAME: FENNELL CONTAINER CO.
ADDRESS: P.O. BOX 62679
CITY: NO. CHARLESTON STATE: SC ZIP: 29419-2679 PHONE: (803) 552-4751
IS WASTE PROPERLY WETTED AND CONTAINERIZED? YES _____ NO _____
DO YOU ACCEPT RESPONSIBILITY FOR WASTE? YES _____ NO _____
TYPE CONTAINER: 40 YD. TOTAL # OF CONTAINERS PICKED-UP: _____
SIGNATURE OF TRANSPORTER REPRESENTATIVE: D. Cohen DATE: 2-21-97

DISPOSAL SITE

NAME: CHAMBERS OAKRIDGE LANDFILL
ADDRESS: 2183 HWY 78
CITY: DORCHESTER STATE: SC ZIP: 29437 PHONE: ( ) 1-800-952-5814
CONTAINER TYPE: _____ # OF CONTAINERS ACCEPTED: _____
SIGNATURE OF DISPOSAL REPRESENATIVE: Cassi Moore DATE: 2/21/97

COPY TO:
ORIGINATOR
TRANSPORTER
098
SAFETY (DHEC)

TRANSPORTER TO RETURN ONE FULLY COMPLETED COPY TO PUBLIC WORKS DEPT (098)
Code 098 will return completed copy to originator.
REVISED WPNSTA CHASN 5090/1 (1-96)

Enclosure (2)

ORIGINAL

South Carolina Department of Health and Environmental Control

DET SER # 7093H402

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

IIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. [illegible] Manifest Document No. 13716

2. Page 1 of

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
[illegible] Naval Engineering, Caretaker Site Office, PO Box [illegible] N. Charleston, SC 29411-9010

4. Generator's Phone (803) 74[illegible]985

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number: [illegible]

C. State Transporter's ID

D. Transporter's Phone: 803-452-6860

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Laidlaw Environmental Services of South Carolina, Inc. [illegible] Hopkins, South Carolina 29115

10. U.S. EPA ID Number: [illegible]

G. State Facility's ID

H. Facility's Phone: (803) 452-6003

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., NA9189, PG III (Chlorobenzene, Lead)					[illegible]
b.					
c.					

J. Additional Descriptions for Materials Listed Above

a. [illegible] c. [illegible]

b. [illegible] d. [illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional [illegible] Waste Code: [illegible] 0004,D005,D008,D010,D011
Bill # 21663
24 Hour Emergency Contact: Rick Nelson or [illegible]
(803) 74[illegible]985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: W. A. Drawdy | Signature: W. A. Drawdy | Month 04 Day 03 Year 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Willard Hersley (ASTS) | Signature: Willard Hersley | Month 04 Day 03 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

Discrepancy Indication Space

a. _____ lbs. c. _____ lbs.

b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

South Carolina Department of Health and Environmental Control

DET SER # 7073HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C D 1 7 0 2 2 3 6 0 Manifest Document No. 13775
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHCYNAW/ACENGLUM, Carolina DEP Office, PO Box 10010, N. Charleston, SC 29419-0010
4. Generator's Phone (803) 742-2085

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(FS), Inc.
6. U.S. EPA ID Number: S C D 1 8 7 5 7 5 4 5 0 7

C. State Transporter's ID
D. Transporter's Phone 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
[illegible]
Pineland, South Carolina 29145
10. U.S. EPA ID Number: S C D 0 0 7 0 1 7 5 8 3 5

G. State Facility's ID
H. Facility's Phone (803) 452-5003

11. U.S. DOT Description (*including Proper Shipping Name, Hazard Class, and ID Number*)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NA, Hazardous Waste Solid, N.O.S., 9, [illegible]					
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. ___ b. ___ c. ___ d. ___

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes D[illegible]
WO# ___
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 742-[illegible]

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
JAMES E. STUMS	[signature]	[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
a. ___ lbs. c. ___ lbs.
b. ___ lbs. d. ___ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

South Carolina Department of Health and Environmental Control

DET SEC # 7041 HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 131 67
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Andrew Environmental Services of SC, Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 1

C. State Transporter's ID
D. Transporter's Phone: 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Andrew Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 9 7 0 3 7 5 9 8 5

G. State Facility's ID
H. Facility's Phone: (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NA, Hazardous waste Solid, N.O.S., 9, NA3077, RQ (Cd, chromium, lead)	0 0 1	C M	2 0	T	D 0 0 7 / D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. D W - 0 1 2 4 3 - 1 1 0 1
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes 1a. - D004,D005,D006,D010,D011
WO# _____
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name	Signature	Month	Day	Year
Charles F. Stiers	Charles F. Stiers	0 4	0 1	9 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Ron T. Varner	Ron T. Varner	0 4	0 1	9 7

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space
a. _____ lbs. c. _____ lbs.
b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DETSEX - 7071440

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
USDOD/NAVFACENGCOM, Lure Lake site office, PO Box [illegible], N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(FS), Inc.
6. U.S. EPA ID Number: [illegible]

C. State Transporter's ID
D. Transporter's Phone: 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: Laidlaw Environmental Services of South Carolina, Inc.
[illegible]
Lexington, South Carolina 29125
10. U.S. EPA ID Number: [illegible]

G. State Facility's ID
H. Facility's Phone: (803) 452-6003

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. Hazardous Waste Solid, N.O.S., [illegible] NA3077, [illegible] Ammonium, Sand	091	CF	[illegible]	Y	D001 D003
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. [illegible] b. [illegible] c. [illegible] d. [illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes for: D004,D005,D006,D010,D011
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: [illegible] | Signature: [illegible] | Month 04 Day 01 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roy T. Varner | Signature: Roy T. Varner | Month 04 Day 01 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7090HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 8-30-91

NIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 Manifest Document No. 13765

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125

10. U.S. EPA ID Number: SCD070375985

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-5[illegible]

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 216629
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: Charles E. Stutts
Signature: Charles E. Stutts
Month 03 Day 31 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roy T. Varner
Signature: Roy T. Varner
Month 03 Day 31 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7090HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 Manifest Document No. 15783
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-3011

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 216628
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: Gary L Crawford | Signature: [signature] | Month 03 Day 31 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roy T. Varner | Signature: Roy T. Varner | Month 03 Day 31 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

South Carolina Department of Health and Environmental Control

DET SEC # 7085HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13762
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 432-2007

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	0 0 1	C M	2 0	Y	D 0 0 7 D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. P W - 0 1 3 4 3 - 1 1 0 1
b. - -
c. - -
d. - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 216542
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

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GENERATOR

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Printed/Typed Name: RICHARD G. NIELSON — Signature: [signature] — Month 0 3 Day 2 6 Year 9 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Jackson — Signature: [signature] — Month 03 Day 26 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7085HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C 0 1 7 0 0 2 2 5 6 0 — Manifest Document No. 13761
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	0 0 1	C M	2 0	Y	D 0 0 7 D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW - 01343 - 1101
b. - - -
c. - - -
d. - - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 216541
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

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Printed/Typed Name: RICHARD G. NIELSON — Signature: [signature] — Month 03 Day 26 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Jackson — Signature: [signature] — Month 03 Day 26 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

South Carolina Department of Health and Environmental Control

JER TRT - 7084406

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C D 1 7 0 0 2 2 5 6 0 — Manifest Document No. 1 5 1 6 0
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010
4. Generator's Phone (803) 743-0085

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(SC), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 2 7 1 0 4 7

C. State Transporter's ID
D. Transporter's Phone: 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt. 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 2 7 5 9 8 3

G. State Facility's ID
H. Facility's Phone: (803) 452-5003

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (Chromium, Lead)	0 1	C M	2 7	Y	D 0 0 7 D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. P 4 - 0 1 5 4 5 - 1 1 0 1
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes (a. - D004,D005,D006,D010,D011
WO# _____
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-0085

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: GARY CRAWFORD | Signature: [signature] | Month 03 Day 23 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Jackson | Signature: [signature] | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

Discrepancy Indication Space
a. _____ lbs. c. _____ lbs.
b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

South Carolina Department of Health and Environmental Control

DET SER 7084 4403

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C D 9 8 7 2 3 0 4 — Manifest Document No. 1375 6
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHERN MAYFACE INCORPORATED, Caretaker Site Office, PO Box 190010, Charleston, SC 29419-9010
4. Generator's Phone (803) 743-9985

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Allied Services Environmental, Inc.
6. U.S. EPA ID Number: S C D 9 8 7 3 7 4 0 4 7

C. State Transporter's ID
D. Transporter's Phone: 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Carolina Environmental Services of South Carolina, Inc.
P.O. Box 255
Ninewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 9 8 5

G. State Facility's ID
H. Facility's Phone: (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, (D007 chromium, lead)	001	CM		P	D007
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. CW-0113-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes 1a. - D004,D005,D006,D010,D011
WO# 216534
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: RICHARD G. NIELSON | Signature: [signature] | Month 03 Day 25 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William Jackson | Signature: [signature] | Month 03 Day [illegible] Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
a. ____ lbs. c. ____ lbs.
b. ____ lbs. d. ____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

South Carolina Department of Health and Environmental Control

DET SER 7083HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

NIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0L700225601 Manifest Document No. 3153
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 82363
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators; 15 minutes for transporters; and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Caroline.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: RICHARD G. NIELSON
Signature: Richard G. Nielson
Month Day Year: 03 24 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LENNON Glover
Signature: Lennon Glover
Month Day Year: 03 24 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

FACILITY

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

South Carolina Department of Health and Environmental Control

DEI # 7083HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 Manifest Document No. 01350

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above

a. PW-01343-1101
b.
c.
d.

Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 216532
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators; 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: RICHARD G. NIELSON
Signature: Richard G. Nielson
Month Day Year: 03 24 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LENNON GLOVER
Signature: Lennon Glover
Month Day Year: 03 24 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7879HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002560 Manifest Document No. 13748

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name
Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number
SCD987574647

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125

10. U.S. EPA ID Number
SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 215596
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: RICHARD G. NIELSON | Signature: [signature] | Month 03 Day 20 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roy T. Varner | Signature: Roy T. Varner | Month 03 Day 20 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7078 HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

ORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002560 Manifest Document No. 3147

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

a. PW-01343-1101
b.
c.
d.

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO#. 215595
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

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Printed/Typed Name: RICHARD G. NIELSON
Signature: [signature]
Month Day Year: 03 19 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William C Summers
Signature: William C Summers
Month Day Year: 03 19 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name

South Carolina Department of Health and Environmental Control

DET SER # 7077HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 Manifest Document No. 13746

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name
Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number
SCD987574647

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125

10. U.S. EPA ID Number
SCD070375985

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-5000

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 215586
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: GARY L CRAWFORD | Signature: Gary L Crawford | Month 03 Day 19 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: William C Summers | Signature: William C Summers | Month 03 Day 19 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month | Day | Year

South Carolina Department of Health and Environmental Control

DET SER# 7077HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002560 Manifest Document No. 13745
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

a. PW-01343-1101
b.
c.
d.

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# ~~89274~~ 215585
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

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Printed/Typed Name: Richard R. Nielson
Signature: [signature]
Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Raymond Smith
Signature: Raymond Smith
Month Day Year: 03 18 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 1076HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

NIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. S C U 1 7 0 0 2 5 0 0 / Manifest Document No. 3 1 9 4
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHERN RAILWAY, Caretaker Site Office, PO Box 100010, N. Charleston, SC 29419-0010
4. Generator's Phone (803) 743-6085

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID 803-752-6060
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-3001

5. Transporter 1 Company Name: Laidlaw Environmental Services, Inc.
6. U.S. EPA ID Number: S C U 0 0 7 0 7 4 0 4 7
7. Transporter 2 Company Name
8. U.S. EPA ID Number
9. Designated Facility Name and Site Address: Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Elmwood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 5 7 5 0 8 9

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, (D007 - Chromium, Total)	0 0 1	C M	2 7	T	D 0 0 7
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. - - 0 1 7 - 1 0 1
b. - -
c. - -
d. - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes is: D004, D005, D008, D018, D011
SWD 215584
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-6085

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: Richard G. Nielson | Signature | Month 0 3 Day 1 8 Year 9 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month 0 3 Day 1 8 Year 9 7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

. Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7076 4401

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. | Manifest Document No.
2. Page 1 of

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
[illegible], Carlaker Site Office, PO Box [illegible], N. Charleston, SC 29418-[illegible]
4. Generator's Phone (803) 74[illegible]-0085

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID 803-252-6060
D. Transporter's Phone

5. Transporter 1 Company Name [illegible]
6. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

7. Transporter 2 Company Name
8. U.S. EPA ID Number

G. State Facility's ID
H. Facility's Phone (803) 252-5000

9. Designated Facility Name and Site Address
[illegible] Environmental Services of South Carolina, Inc.
PO Box 255
Pineville, South Carolina 29125
10. U.S. EPA ID Number

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, hazardous waste solid, n.o.s., 9, NA9077, (contains chromium, lead)	[illegible]	[illegible]	[illegible]	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. [illegible]
b. [illegible]
c. [illegible]
d. [illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA waste codes for [illegible]
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 74[illegible]-0085

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	0 3	1 7	7 7

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

Discrepancy Indication Space

a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

South Carolina Department of Health and Environmental Control

DESER# 7072HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

NIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 / Manifest Document No. 37742
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 803-432-6000
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-3000

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985

GENERATOR

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 215582
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: RICHARD G. NIELSON | Signature: [signature] | Month 03 Day 17 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Wilber Washington | Signature: [signature] | Month 03 Day 17 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month | Day | Year

South Carolina Department of Health and Environmental Control

DET SCR # 7072HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

NIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 Manifest Document No. 13741
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name
Laidlaw Environmental Services(TG), Inc.

6. U.S. EPA ID Number SCD987574647

C. State Transporter's ID
D. Transporter's Phone 803 432-6060

7. Transporter 2 Company Name

8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125

10. U.S. EPA ID Number SCD070375985

G. State Facility's ID
H. Facility's Phone (803) 432-5005

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW-0343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 89190
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: Gary L Crawford — Signature: Gary L Crawford — Month 03 Day 14 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Raymond Smith — Signature: Raymond Smith — Month 03 Day 14 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator; Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month

South Carolina Department of Health and Environmental Control

DET SER #7063HH02

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC0 1 7 0 0 2 2 5 6 0 Manifest Document No. 13140
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

4. Generator's Phone (803) 743-9985

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: S C D 9 8 7 5 7 4 6 4 7

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: S C D 0 7 0 3 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	0 0 1	C M	2 0	Y	D 0 0 7 D 0 0 8
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. P W - 0 1 3 4 3 - 1 1 0 1
b.
c.
d.

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 215502
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

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Printed/Typed Name: GARY L CRAWFORD
Signature: [signature]
Month Day Year: 03 06 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Charles Ravenell
Signature: [signature]
Month Day Year: 03 06 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

Discrepancy Indication Space
a. lbs. c. lbs.
b. lbs. d. lbs.

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

South Carolina Department of Health and Environmental Control

DET SER # 7063HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite [12-pitch] typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 Manifest Document No. 13739
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is by State law.

GENERATOR

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010
4. Generator's Phone (803) 743-0985

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647

C. State Transporter's ID
D. Transporter's Phone: 803-452-6060

7. Transporter 2 Company Name
8. U.S. EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070759855

G. State Facility's ID
H. Facility's Phone: (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	2	P	D007 D008
b.					
c.					

J. Additional Descriptions for Materials Listed Above
a. PW 01343-1101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 215478
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden: to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

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Printed/Typed Name: RICHARD G. NIELSON
Signature: Richard G. Nielson
Month Day Year: 03 04 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roy T. Varner
Signature: Roy T. Varner
Month Day Year: 03 04 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

Discrepancy Indication Space
a. _____ lbs. c. _____ lbs.
b. _____ lbs. d. _____ lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2600 Bull Street, Columbia, SC 29201
Phone: (803) 734-5200
Emergency & Holidays: (803)253-6488

PLEASE PRINT or TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved OMB No. 2050-0039 Expires 9-30-91

FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC017002256 0 — Manifest Document No. 13138
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address
SOUTHDIVNAVFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010
4. Generator's Phone (803) 743-9985

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone (803) 432-0000

5. Transporter 1 Company Name: Laidlaw Environmental Services(TG), Inc.
6. U.S. EPA ID Number: SCD987574647
7. Transporter 2 Company Name
8. U.S. EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Laidlaw Environmental Services of South Carolina, Inc.
Rt 1 Box 255
Pinewood, South Carolina 29125
10. U.S. EPA ID Number: SCD070375985
G. State Facility's ID
H. Facility's Phone (803) 452-5003

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20	Y	D007 D008
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. PW013431101
b.
c.
d.

K. Handling Codes for Wastes Listed Above

ON-SITE INSPECTOR S.C. DEPT. OF HEALTH & ENVIRONMENTAL CONTROL

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004,D005,D006,D010,D011
WO# 215072
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: GARY L CRAWFORD — Signature: Gary L Crawford — Month Day Year: 02 27 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Margaret W. Player — Signature: Margaret W. Player — Month Day Year: 02 27 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

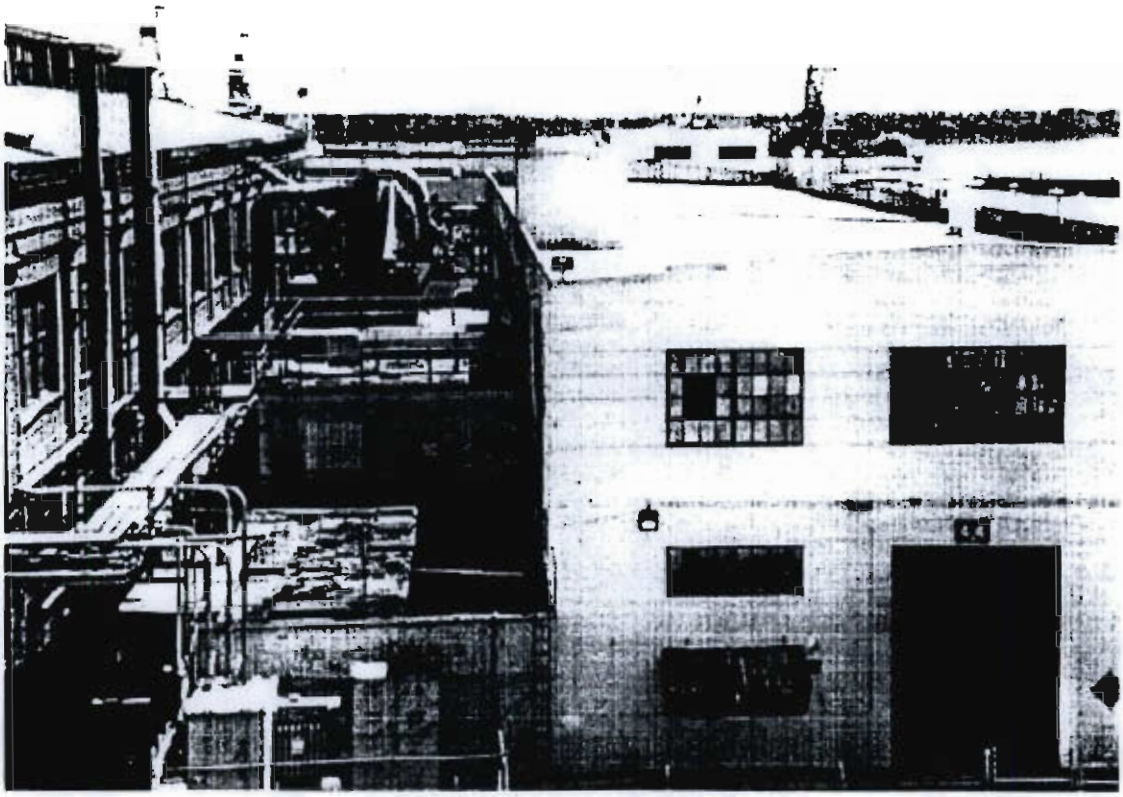
FACILITY

19. Discrepancy Indication Space
a. 8520 lbs. c. lbs.
b. lbs. d. lbs.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Month Day Year: 02 28 97

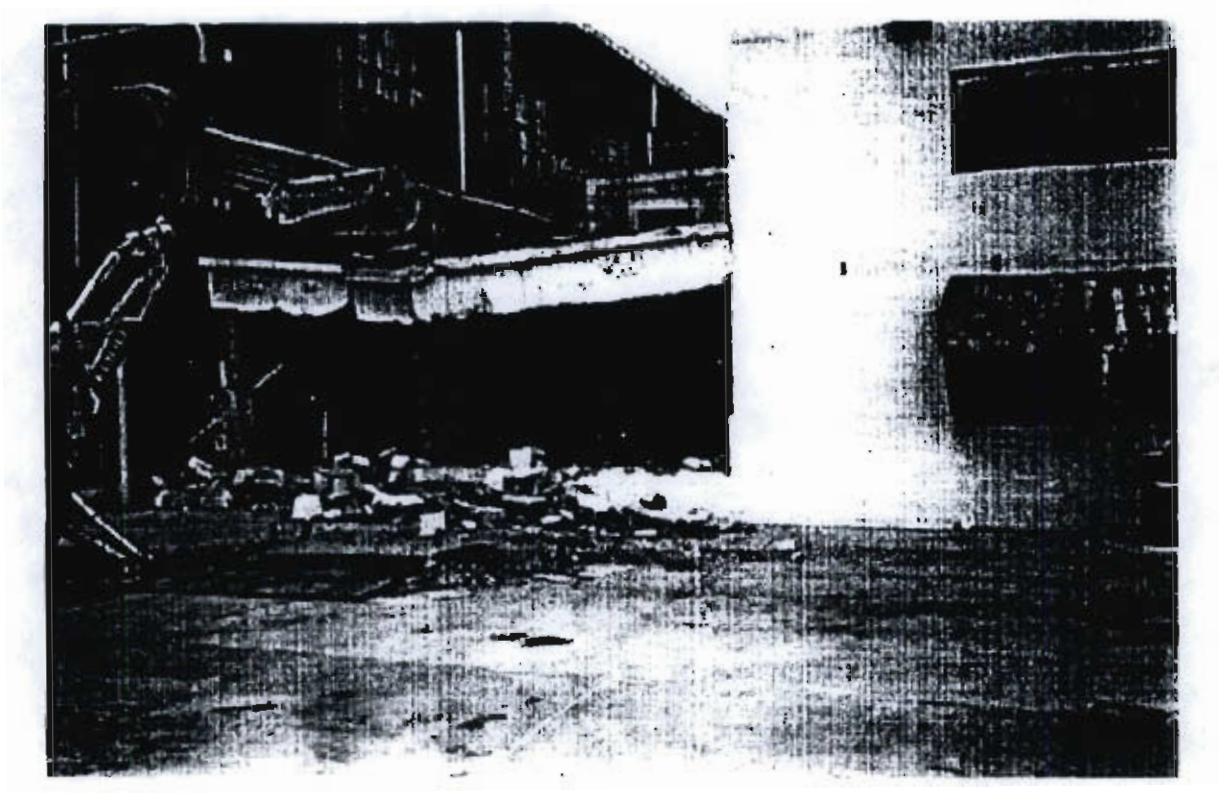
APPENDIX D

PHOTOGRAPHS



Building 44 Annex (left of center)

Asbestos roof removal



Lower Annex Demolition

Upper Annex Demolition

Slab Removal (Note yellow discoloration of Chromium)

Covered Site After Demolition