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CNC CHARLESTON
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COMPLETION REPORT PROCESS CLOSURE/ DEMOLITION FOR SOLID WASTE
MANAGEMENT UNIT 25 (SWMU 25) BUILDING 44 ANNEX WITH TRANSMITTAL CNC
CHARLESTON SC
6/14/1997
CHARLESTON ENVIRONMENTAL DETACHMENT



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.,
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July 14, 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.

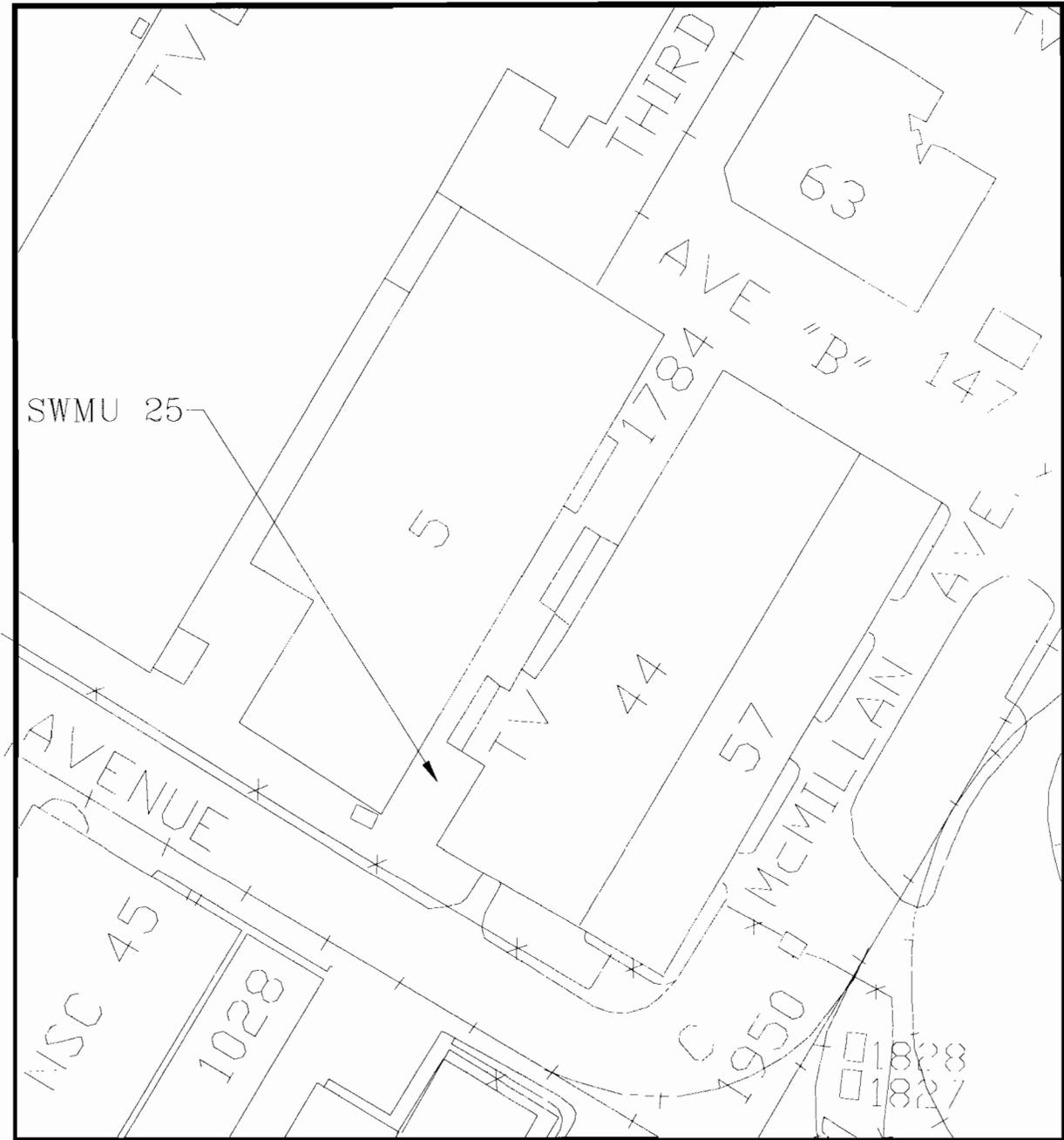
5.1.2 Asbestos Waste. One shipment of asbestos containing material (5.96 Tons) was transported by Fennel Container Company, Inc. to Chambers Oakridge Landfill located in Dorchester County, South Carolina under license number SC N9612040 on 21 February 1997.

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

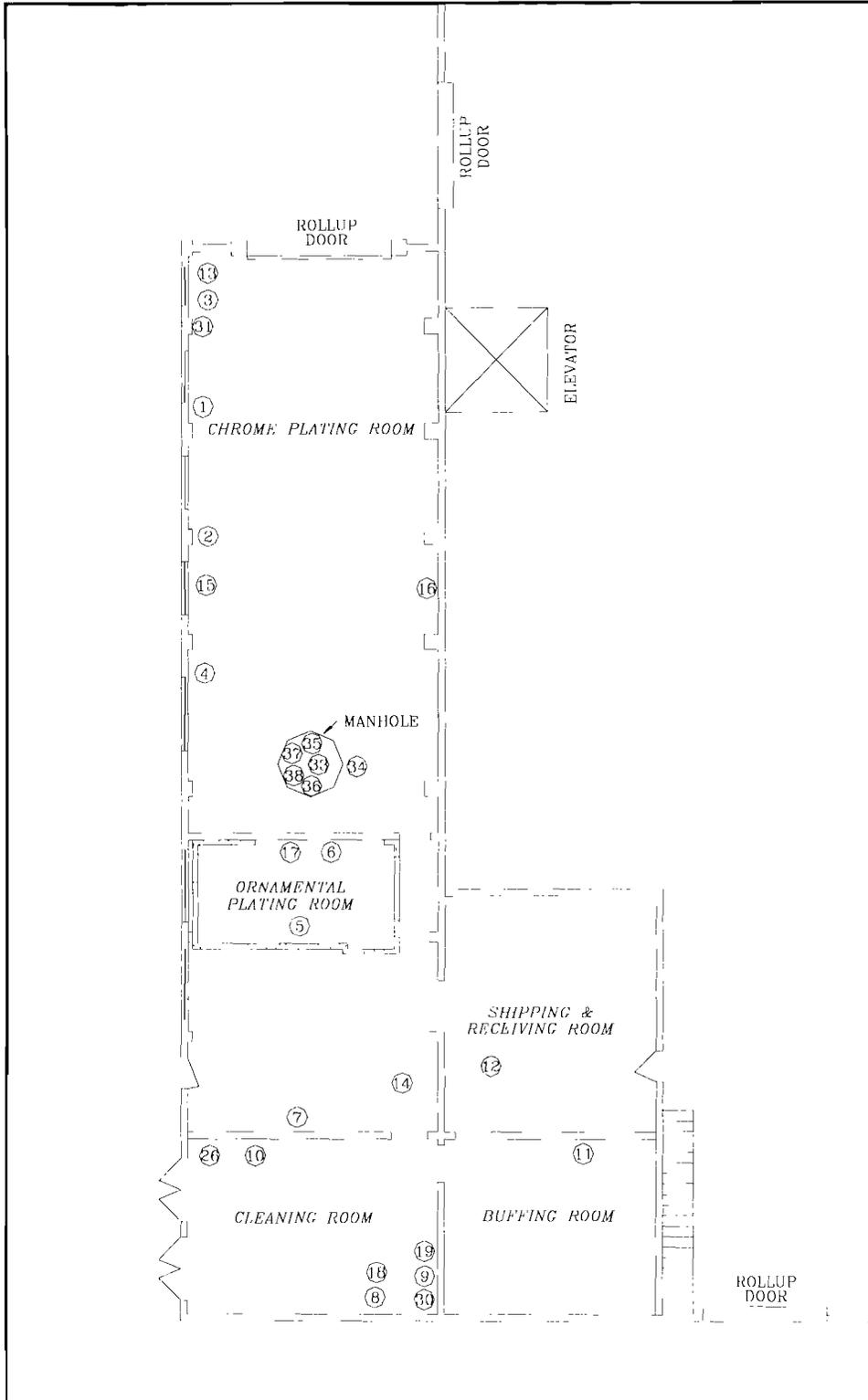


FIGURE B-1 Con't SAMPLE LOCATIONS

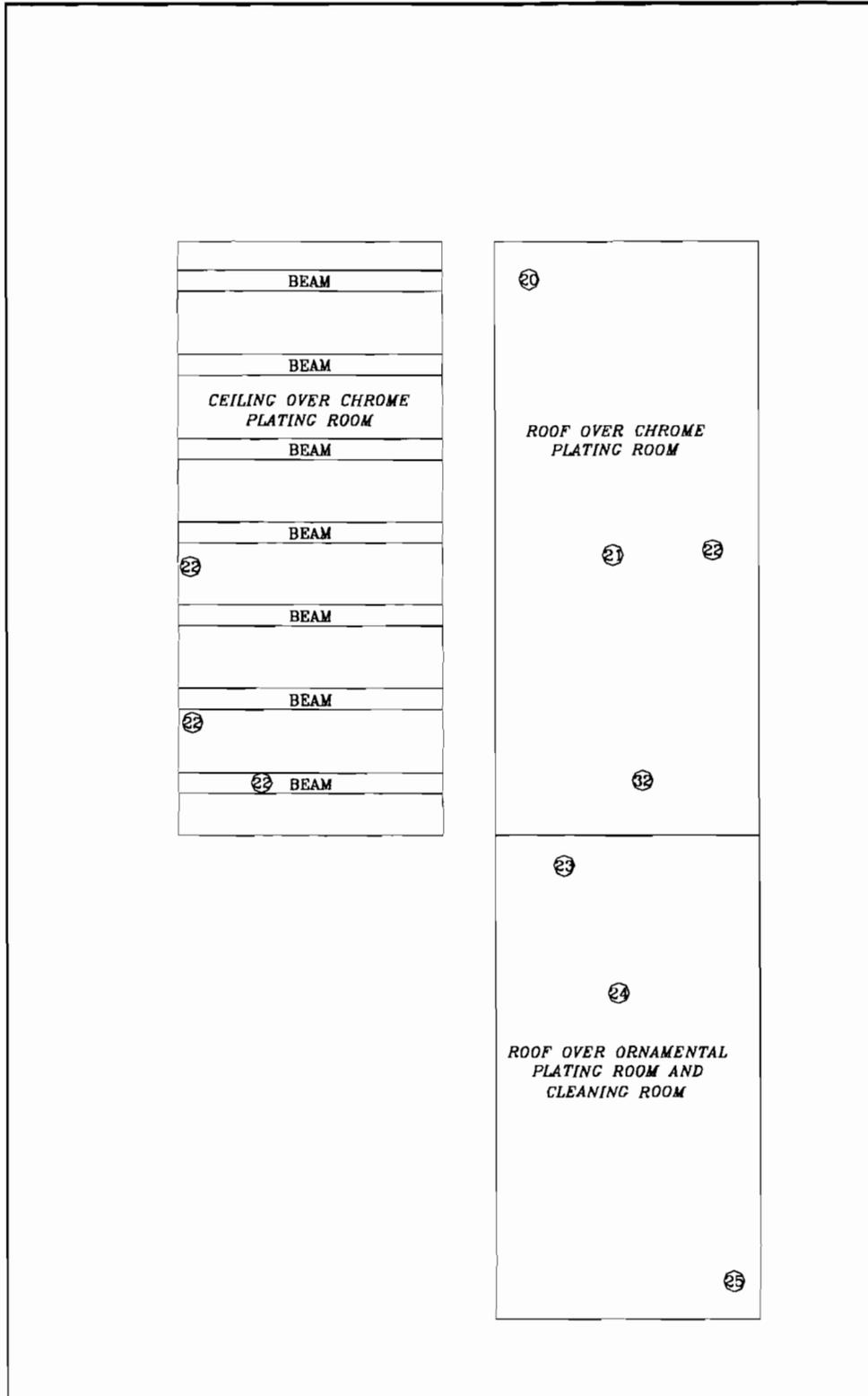


TABLE B-1

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

NPI 00196
9607607

General Engineering Services, Inc.
2040 Savage Road
Charleston, South Carolina 29414
P O Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page 1 of 2

CHAIN OF CUSTODY RECORD

3 DAY TURNAROUND

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Use F or P in the boxes to indicate whether sample was filtered and/or preserved						
SPORTENVDETCHASN												CCL 22566						
Collected by/Company												Remarks						
SPORTENVDETCHASN																		
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	SEMI-VOCs	PCB's	Cyanide (TOTAL)	Coliform - specify type	
01 SPORT0120-1	7/31/96	0946				X	1							A				BLDG 44 LOCATION 1 .1
02 SPORT0120-2	7/31/96	0950				X	1							A				BLDG 44 LOCATION 2 .1
03 04 SPORT0120-3	7/31/96	1005				X	1							C		X		BLDG 44 LOCATION 3 .1 .3
05 SPORT0120-4	7/31/96	1010				X	1							A				BLDG 44 LOCATION 4 .1
06 SPORT0120-5	7/31/96	1017				X	2							A		X		BLDG 44 LOCATION 5 .4
07 SPORT0120-6	7/31/96	1020				X	1							A				BLDG 44 LOCATION 6 .1
08 09 SPORT0120-7	7/31/96	1025				X	1							A		X		BLDG 44 LOCATION 7 -1.4
10 SPORT0120-8	7/31/96	1030				X	1							A				BLDG 44 LOCATION 8 .1
11 12 SPORT0120-9	7/31/96	1035				X	1							A		X		BLDG 44 LOCATION 9 -1.4
13 SPORT0120-10	7/31/96	1040				X	1							A				BLDG 44 LOCATION 10 .1
14 15 SPORT0120-11	7/31/96	1040				X	1							B		X		BLDG 44 LOCATION 11 -1.2
16 17 SPORT0120-12	7/31/96	1043				X	1							B		X		BLDG 44 LOCATION 12 -1.2
18 19 SPORT0120-13	7/31/96	1047				X	1							C		X		BLDG 44 LOCATION 13 -1.3
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Received by:		Remarks:								
PL. Chew		7/31/96	1130	L. O. Macmillan		7/31/96	1452	Catherine H. P.		W. R. Herring								
Relinquished by:		Date:	Time:	Received by lab by:		Date:	Time:	Remarks:										
				Paige Kinard		7/31/96	1520											

White = sample collector Yell w = file Pink = with report



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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-1
 Lab ID : 9607607-01
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00887	0.00210	0.500	mg/l	100	TLD	08/02/96	1605	88157	1
Arsenic	U	-0.0299	0.0380	0.500	mg/l	100					
Barium	J	0.0849	0.00360	10.0	mg/l	100					
Cadmium	J	0.0921	0.00430	0.100	mg/l	100					
Chromium		138	0.0390	0.500	mg/l	100					
Lead	U	-0.00142	0.00260	0.500	mg/l	100					
Selenium	U	0.00497	0.0240	0.200	mg/l	100					
Mercury	J	0.00111	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1043	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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cc: NPWC00196

Report Date: August 05, 1996

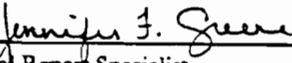
Page 3 of 3

Sample ID : SPORT0120-1

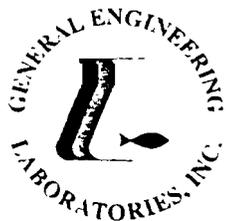
GEL Laboratory Certifications

EPI Laboratory Certifications

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



Analytical Report Specialist



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Sample ID : SPORT0120-2
 Lab ID : 9607607-02
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00650	0.00210	0.500	mg/l	100	TLD	08/02/96	1611	88157	1
Arsenic	U	-0.0313	0.0380	0.500	mg/l	100					
Barium	J	0.105	0.00360	10.0	mg/l	100					
Cadmium	J	0.0365	0.00430	0.100	mg/l	100					
Chromium		272	0.0390	0.500	mg/l	100					
Lead	U	-0.00162	0.00260	0.500	mg/l	100					
Selenium	J	0.0290	0.0240	0.200	mg/l	100					
Mercury	J	0.000870	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1045	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Page 2 of 3

Sample ID : SPORT0120-2

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

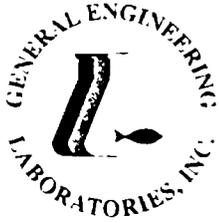
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 CA - 2089
 DE - SC012
 ME - SC012
 NC - 233
 RI - 135
 TN - 02934
 VA - 00151
 WI - 999887790

AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120
 NY - 11501
 SC - 10120
 UT - E-251
 WA - C223
 WV - 236

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502
 SC - 10582
 UT - E-227
 WA - C225
 PA - 68-485

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138
 TN - 02934
 VA - 00111
 NJ - 79002
 WV - 235



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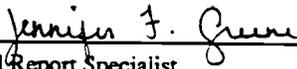
Page 3 of 3

Sample ID : SPORT0120-2

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-3
 Lab ID : 9607607-04
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

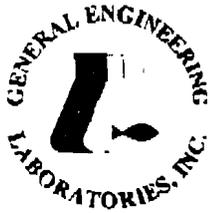
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	J	31.8	2.19	33.2	ug/kg	1.0	RMJ	08/01/96	1635	88107	N
Silver	J	7040	2470	9900	ug/kg	20.	WCC	08/02/96	1225	88135	1
Arsenic	U	1230	1840	9900	ug/kg	20.					
Barium		71600	65.6	9900	ug/kg	20.					
Cadmium		34500	96.0	4950	ug/kg	20.					
Chromium		12200000	590	9900	ug/kg	20.					
Lead		555000	1120	4950	ug/kg	20.					
Selenium	J	2140	1420	4950	ug/kg	20.					
General Chemistry											
Cyanide, Total	J	0.294	0.0701	0.467	mg/kg	1.0	JBG	08/01/96	2049	88123	2
Chromium, Hexavalent		4250	1500	1500	mg/kg	5000	JEN	08/01/96	0800	88116	3

The following prep procedures were performed:

Mercury RMJ 08/01/96 1340 88107 4
 TRACE FGD 08/01/96 1500 88135 5

M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A/9012
M 3	EPA 7196
M 4	EPA 7471
M 5	EPA 3050





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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-3

M = Method Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

AL - 41040
 CA - 2089
 DE - SC012
 ME - SC012
 NC - 233
 RI - 135
 TN - 02934
 VA - 00151
 WI - 999887790

AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120
 NY - 11501
 SC - 10120
 UT - E-251
 WA - C223
 WY - 236

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502
 SC - 10582
 UT - E-227
 WA - C225
 PA - 68-485

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138
 TN - 02934
 VA - 00111
 NJ - 79002
 WY - 235





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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

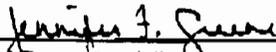
Page 3 of 3

Sample ID : SPORT0120-3

GEL Laboratory Certifications

EPI Laboratory Certifications

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-3
 Lab ID : 9607607-03
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00703	0.00210	0.500	mg/l	100	TLD	08/02/96	1617	88157	1
Arsenic	J	0.0658	0.0380	0.500	mg/l	100					
Barium	J	0.104	0.00360	10.0	mg/l	100					
Cadmium	J	0.0675	0.00430	0.100	mg/l	100					
Chromium		249	0.0390	0.500	mg/l	100					
Lead	U	-0.00220	0.00260	0.500	mg/l	100					
Selenium	U	-0.00366	0.0240	0.200	mg/l	100					
Mercury	J	0.000580	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1048	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

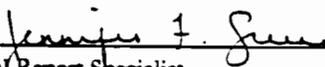
Page 3 of 3

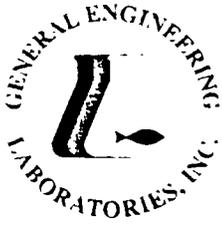
Sample ID : SPORT0120-3

GEL Laboratory Certifications

EPI Laboratory Certifications

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Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0120-4
 Lab ID : 9607607-05
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

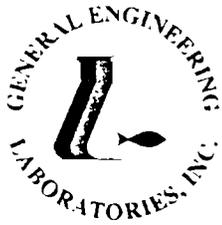
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00661	0.00210	0.500	mg/l	100	TLD	08/02/96	1623	88157	1
Arsenic	U	0.0208	0.0380	0.500	mg/l	100					
Barium	J	0.0892	0.00360	10.0	mg/l	100					
Cadmium	J	0.0878	0.00430	0.100	mg/l	100					
Chromium		794	0.0390	0.500	mg/l	100					
Lead	U	-0.00854	0.00260	0.500	mg/l	100					
Selenium	J	0.0303	0.0240	0.200	mg/l	100					
Mercury	J	0.000750	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1050	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

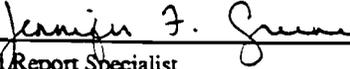
Page 3 of 3

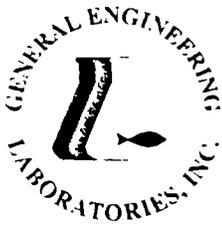
Sample ID : SPORT0120-4

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Sample ID : SPORT0120-5
 Lab ID : 9607607-06
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Cyanide, Total		48.3	1.46	9.70	mg/kg	20.	JBG	08/01/96	2050	88123	1

M = Method	Method-Description
M 1	SW846 9010A/9012

Notes:

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

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

GEL Laboratory Certifications

AL - 41040
 CA - 2089
 DE - SC012
 ME - SC012

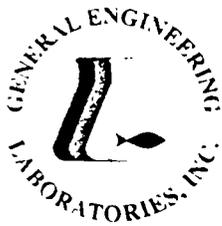
AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138





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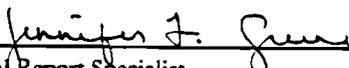
Sample ID : SPORT0120-5

GEL Laboratory Certifications

EPI Laboratory Certifications

NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		

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Page 1 of 3

Sample ID : SPORT0120-6
 Lab ID : 9607607-07
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

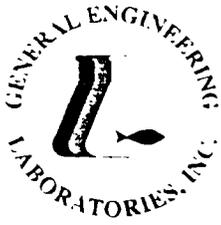
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.185	0.00210	0.500	mg/l	100	TLD	08/02/96	1449	88157	1
Arsenic	J	0.0438	0.0380	0.500	mg/l	100					
Barium	J	0.362	0.00360	10.0	mg/l	100					
Cadmium		0.743	0.00430	0.100	mg/l	100					
Chromium		0.786	0.0390	0.500	mg/l	100					
Lead	J	0.0347	0.00260	0.500	mg/l	100					
Selenium	U	-0.0184	0.0240	0.200	mg/l	100					
Mercury	J	0.000960	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1053	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

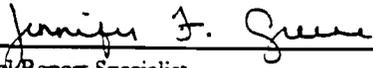
Page 3 of 3

Sample ID : SPORT0120-6

GEL Laboratory Certifications

EPI Laboratory Certifications

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-7
 Lab ID : 9607607-08
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00221	0.00210	0.500	mg/l	100	TLD	08/02/96	1455	88157	1
Arsenic	J	0.0617	0.0380	0.500	mg/l	100					
Barium	J	0.277	0.00360	10.0	mg/l	100					
Cadmium		0.225	0.00430	0.100	mg/l	100					
Chromium	J	0.0561	0.0390	0.500	mg/l	100					
Lead	U	0.00217	0.00260	0.500	mg/l	100					
Selenium	J	0.0731	0.0240	0.200	mg/l	100					
Mercury	J	0.000890	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1055	88110	2

The following prep procedures were performed:

ICP Mass Spec DVW 08/01/96 1800 88157 3
 Mercury RMJ 08/01/96 2015 88110 2
 TCLP Prep for Metals JL 07/31/96 2055 88058 4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Sample ID : SPORT0120-7

M = Method

Method-Description

Notes:

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

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

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235



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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

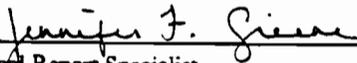
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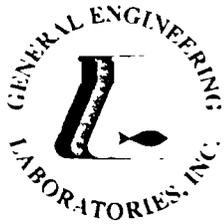
Sample ID : SPORT0120-7

GEL Laboratory Certifications

EPI Laboratory Certifications

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Sample ID : SPORT0120-7
 Lab ID : 9607607-09
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Cyanide, Total		6.48	0.278	1.85	mg/kg	4.0	JBG	08/01/96	2051	88123	1

M = Method	Method-Description
M 1	SW846 9010A/9012

Notes:

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GEL Laboratory Certifications

AL - 41040
 CA - 2089
 DE - SC012
 ME - SC012

AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138





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Sample ID : SPORT0120-7

GEL Laboratory Certifications

NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

SC - 10582
UT - E-227
WA - C225
PA - 68-485

TN - 02934
VA - 00111
NJ - 79002
WV - 235

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

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Sample ID : SPORT0120-8
 Lab ID : 9607607-10
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0470	0.00210	0.500	mg/l	100	TLD	08/02/96	1501	88157	1
Arsenic	U	0.0183	0.0380	0.500	mg/l	100					
Barium	J	0.126	0.00360	10.0	mg/l	100					
Cadmium		2.75	0.00430	0.100	mg/l	100					
Chromium	J	0.124	0.0390	0.500	mg/l	100					
Lead		5.38	0.00260	0.500	mg/l	100					
Selenium	U	-0.00317	0.0240	0.200	mg/l	100					
Mercury	J	0.000850	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1057	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

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Sample ID : SPORT0120-8

M = Method Method-Description

Notes:

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

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

GEL Laboratory Certifications

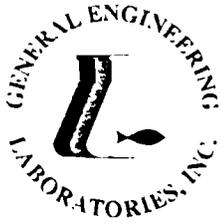
AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

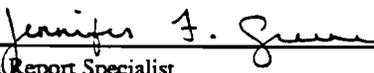
Page 3 of 3

Sample ID : SPORT0120-8

GEL Laboratory Certifications

EPI Laboratory Certifications

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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-9
 Lab ID : 9607607-11
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0481	0.00210	0.500	mg/l	100	TLD	08/02/96	1507	88157	1
Arsenic	U	-0.00880	0.0380	0.500	mg/l	100					
Barium	J	0.0209	0.00360	10.0	mg/l	100					
Cadmium		0.126	0.00430	0.100	mg/l	100					
Chromium		0.581	0.0390	0.500	mg/l	100					
Lead		50.5	0.00260	0.500	mg/l	100					
Selenium	U	-0.0199	0.0240	0.200	mg/l	100					
Mercury	J	0.000540	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1100	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

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Page 2 of 3

Sample ID : SPORT0120-9

M = Method

Method-Description

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235



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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

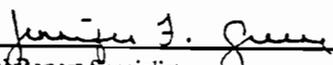
Page 3 of 3

Sample ID : SPORT0120-9

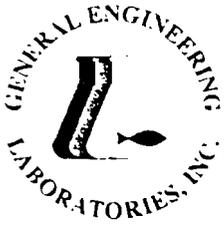
GEL Laboratory Certifications

EPI Laboratory Certifications

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 2

Sample ID : SPORT0120-9
 Lab ID : 9607607-12
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Cyanide, Total		6.81	0.291	1.94	mg/kg	4.0	JBG	08/01/96	2053	88123	1

M = Method	Method-Description
M 1	SW846 9010A/9012

Notes:

The qualifiers in this report are defined as follows:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

AL - 41040
 CA - 2089
 DE - SC012
 ME - SC012

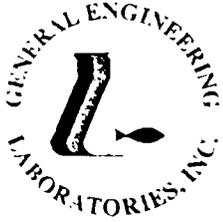
AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138





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cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 2

Sample ID : SPORT0120-9

GEL Laboratory Certifications

NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

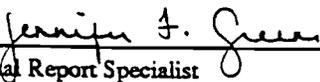
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

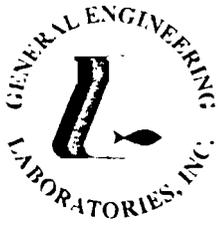
EPI Laboratory Certifications

SC - 10582
UT - E-227
WA - C225
PA - 68-485

TN - 02934
VA - 00111
NJ - 79002
WV - 235

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-10
 Lab ID : 9607607-13
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

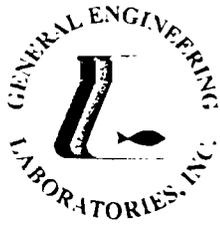
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00863	0.00210	0.500	mg/l	100	TLD	08/02/96	1513	88157	1
Arsenic	J	0.0401	0.0380	0.500	mg/l	100					
Barium	J	0.489	0.00360	10.0	mg/l	100					
Cadmium	J	0.00494	0.00430	0.100	mg/l	100					
Chromium	J	0.0713	0.0390	0.500	mg/l	100					
Lead	U	0.00238	0.00260	0.500	mg/l	100					
Selenium	J	0.0935	0.0240	0.200	mg/l	100					
Mercury	J	0.000460	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1107	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

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Page 2 of 3

Sample ID : SPORT0120-10

M = Method

Method-Description

Notes:

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

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

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: August 05, 1996

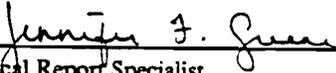
Page 3 of 3

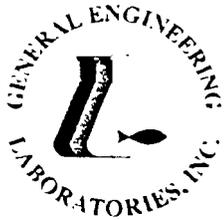
Sample ID : SPORT0120-10

GEL Laboratory Certifications

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-11
 Lab ID : 9607607-15
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualfler	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury		3710	12.2	165	ug/kg	5.0	RMJ	08/01/96	2019	88107	N
Silver		213000	2470	9900	ug/kg	20.	WCC	08/02/96	1338	88135	1
Arsenic		13600	1840	9900	ug/kg	20.					
Barium		409000	65.6	9900	ug/kg	20.					
Cadmium		5600000	96.0	4950	ug/kg	20.					
Chromium		3270000	590	9900	ug/kg	20.					
Lead		3740000	1120	4950	ug/kg	20.					
Selenium	J	1480	1420	4950	ug/kg	20.					
General Chemistry											
Cyanide, Total		234	3.00	20.0	mg/kg	40.	JBG	08/01/96	2054	88123	2

The following prep procedures were performed:

Mercury RMJ 08/01/96 1340 88107 3
 TRACE FGD 08/01/96 1500 88135 4

M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A/9012
M 3	EPA 7471
M 4	EPA 3050





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cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-11

M = Method

Method-Description

Notes:

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GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

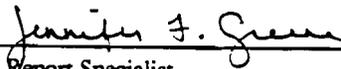
Page 3 of 3

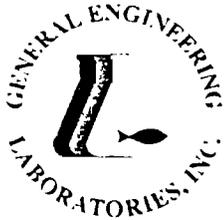
Sample ID : SPORT0120-11

GEL Laboratory Certifications

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-11
 Lab ID : 9607607-14
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0121	0.00210	0.500	mg/l	100	TLD	08/02/96	1518	88157	1
Arsenic	U	0.0252	0.0380	0.500	mg/l	100					
Barium	J	2.73	0.00360	10.0	mg/l	100					
Cadmium		125	0.00430	0.100	mg/l	100					
Chromium	J	0.257	0.0390	0.500	mg/l	100					
Lead		13.2	0.00260	0.500	mg/l	100					
Selenium	U	0.0212	0.0240	0.200	mg/l	100					
Mercury	J	0.00179	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1110	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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cc: NPWC00196

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Sample ID : SPORT0120-11

M = Method Method-Description

Notes:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

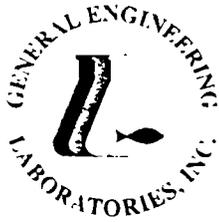
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

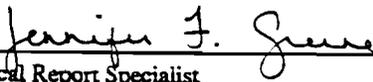
Page 3 of 3

Sample ID : SPORT0120-11

GEL Laboratory Certifications

EPI Laboratory Certifications

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-12
 Lab ID : 9607607-17
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury		1580	2.40	33.2	ug/kg	1.0	RMJ	08/01/96	1640	88107	N
Silver		183000	2440	9800	ug/kg	20.	WCC	08/02/96	1343	88135	1
Arsenic		16100	1820	9800	ug/kg	20.					
Barium		1730000	65.0	9800	ug/kg	20.					
Cadmium		209000	95.1	4900	ug/kg	20.					
Chromium		21000000	584	9800	ug/kg	20.					
Lead		3040000	1110	4900	ug/kg	20.					
Selenium	U	-308	1400	4900	ug/kg	20.					
General Chemistry											
Cyanide, Total		38.1	1.49	9.90	mg/kg	20.	JBG	08/01/96	2055	88123	2

The following prep procedures were performed:

Mercury	RMJ	08/01/96	1340	88107	3
TRACE	FGD	08/01/96	1500	88135	4

M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A,9012
M 3	EPA 7471
M 4	EPA 3050





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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-12

M = Method Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

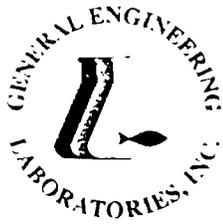
AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235



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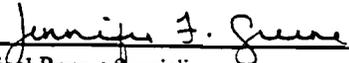
Page 3 of 3

Sample ID : SPORT0120-12

GEL Laboratory Certifications

EPI Laboratory Certifications

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 SUPSHIP-Portsmouth Detachment-Env.
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-12
 Lab ID : 9607607-16
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

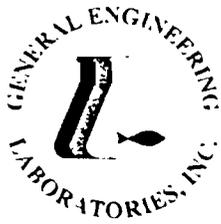
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.00306	0.00210	0.500	mg/l	100	TLD	08/02/96	1629	88157	1
Arsenic	U	-0.0385	0.0380	0.500	mg/l	100					
Barium	J	0.460	0.00360	10.0	mg/l	100					
Cadmium		2.35	0.00430	0.100	mg/l	100					
Chromium	J	0.395	0.0390	0.500	mg/l	100					
Lead		1.05	0.00260	0.500	mg/l	100					
Selenium	U	-0.0210	0.0240	0.200	mg/l	100					
Mercury	J	0.000570	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1112	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Meth d	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-12

M = Method Method-Description

Notes:

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

GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

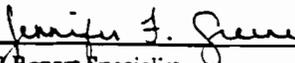
Page 3 of 3

Sample ID : SPORT0120-12

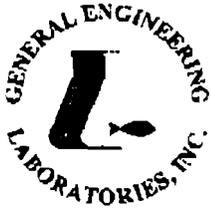
GEL Laboratory Certifications

EPI Laboratory Certifications

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-13

M = Method Method-Description

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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GEL Laboratory Certifications

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 DE - SC012
 ME - SC012
 NC - 233
 RI - 135
 TN - 02934
 VA - 00151
 WI - 999887790

AZ - AZ0514
 CT - PH-0169
 FL - E87156/87294
 MS - 10120
 NY - 11501
 SC - 10120
 UT - E-251
 WA - C223
 WV - 236

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 FL - E87472/87458
 NY - 11502
 SC - 10582
 UT - E-227
 WA - C225
 PA - 68-485

AZ - AZ0514
 CT - PH-0175
 MS - 29417
 RI - 138
 TN - 02934
 VA - 00111
 NJ - 79002
 WV - 235



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Report Date: August 05, 1996

Page 3 of 3

Sample ID : SPORT0120-13

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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-13
 Lab ID : 9607607-18
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00883	0.00210	0.500	mg/l	100	TLD	08/02/96	1634	88157	1
Arsenic	U	0.00761	0.0380	0.500	mg/l	100					
Barium	J	0.132	0.00360	10.0	mg/l	100					
Cadmium	J	0.0433	0.00430	0.100	mg/l	100					
Chromium		191	0.0390	0.500	mg/l	100					
Lead	J	0.0179	0.00260	0.500	mg/l	100					
Selenium	U	-0.0455	0.0240	0.200	mg/l	100					
Mercury	J	0.000410	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1114	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-13

M = Method

Method-Description

Notes:

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GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

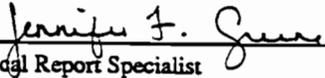
Page 3 of 3

Sample ID : SPORT0120-13

GEL Laboratory Certifications

EPI Laboratory Certifications

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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-14
 Lab ID : 9607607-20
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0936	0.00210	0.500	mg/l	100	TLD	08/02/96	1524	88157	1
Arsenic	U	0.0297	0.0380	0.500	mg/l	100					
Barium	J	7.32	0.00360	10.0	mg/l	100					
Cadmium		20.5	0.00430	0.100	mg/l	100					
Chromium	J	0.326	0.0390	0.500	mg/l	100					
Lead	J	0.216	0.00260	0.500	mg/l	100					
Selenium	J	0.0295	0.0240	0.200	mg/l	100					
Mercury	J	0.000800	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1117	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-14

M = Method Method-Description

Notes:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

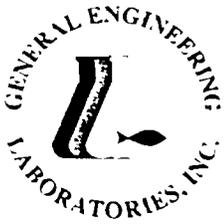
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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Report Date: August 05, 1996

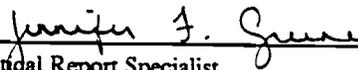
Page 3 of 3

Sample ID : SPORT0120-14

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0120-14
 Lab ID : 9607607-21
 Matrix : Misc.
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury		288	2.21	33.2	ug/kg	1.0	RMJ	08/01/96	1712	88107	N
Silver		190000	2490	10000	ug/kg	20.	WCC	08/02/96	1347	88135	1
Arsenic		12200	1860	10000	ug/kg	20.					
Barium		1470000	66.3	10000	ug/kg	20.					
Cadmium		8120000	97.0	5000	ug/kg	20.					
Chromium		4170000	596	10000	ug/kg	20.					
Lead		5970000	1130	5000	ug/kg	20.					
Selenium	U	720	1430	5000	ug/kg	20.					
General Chemistry											
Cyanide, Total		59.9	1.43	9.52	mg/kg	20.	JBG	08/01/96	2058	88123	2

The following prep procedures were performed:

Mercury RMJ 08/01/96 1340 88107 3
 TRACE FGD 08/01/96 1500 88135 4

M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A/9012
M 3	EPA 7471
M 4	EPA 3050





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 North Charleston, South Carolina 29405-2106

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cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0120-14

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EPI Laboratory Certifications

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CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

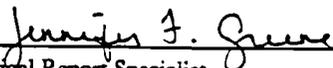
Page 3 of 3

Sample ID : SPORT0120-14

GEL Laboratory Certifications

EPI Laboratory Certifications

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Analytical Report Specialist

CHAIN OF CUSTODY RECORD

Page 1 of 1

3 DAY TURN AROUND

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods											Remarks				
SPORTENVDETC HASN		pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	MSMP METALS (specify)	Pesticide	Herbicide	Total Phenol	Acid Extractables		B/N Extractables	PCB's	Cyanide	Coliform - specify type
Collected by/Company	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS									
SPORTENVDETC HASN	SPORT0122-1	7/31/96	1330				X	1									BLDG 44 LOCATION 15
	SPORT0122-2	7/31/96	1335				X	1									BLDG 44 LOCATION 16
	SPORT0122-3	7/31/96	1340				X	2									BLDG 44 LOCATION 17
	SPORT0122-4	7/31/96	1345				X	1									BLDG 44 LOCATION 18
	SPORT0122-5	7/31/96	1350				X	1									BLDG 44 LOCATION 19
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:										
<i>[Signature]</i>	7/31/96	1415	<i>[Signature]</i>	<i>[Signature]</i>	7/31/96	1452	<i>[Signature]</i>										
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:											

White = sample collector Yellow = file Pink = with report



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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0122-1
 Lab ID : 9607608-01
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00507	0.00210	0.500	mg/l	100	TLD	08/02/96	1357	88157	1
Arsenic	U	0.0146	0.0380	0.500	mg/l	100					
Barium	J	0.250	0.00360	10.0	mg/l	100					
Cadmium	J	0.0125	0.00430	0.100	mg/l	100					
Chromium	J	0.224	0.0390	0.500	mg/l	100					
Lead	J	0.00822	0.00260	0.500	mg/l	100					
Selenium	J	0.0683	0.0240	0.200	mg/l	100					
Mercury	J	0.000510	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1119	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0122-1

M = Method	Method-Description
------------	--------------------

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

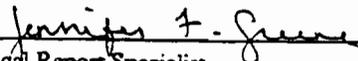
Page 3 of 3

Sample ID : SPORT0122-1

GEL Laboratory Certifications

EPI Laboratory Certifications

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



Analytical Report Specialist



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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0122-2
 Lab ID : 9607608-02
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

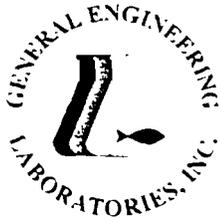
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00839	0.00210	0.500	mg/l	100	TLD	08/02/96	1403	88157	1
Arsenic	J	0.0433	0.0380	0.500	mg/l	100					
Barium	J	0.199	0.00360	10.0	mg/l	100					
Cadmium	U	0.000847	0.00430	0.100	mg/l	100					
Chromium	J	0.342	0.0390	0.500	mg/l	100					
Lead	U	-0.00258	0.00260	0.500	mg/l	100					
Selenium	J	0.0624	0.0240	0.200	mg/l	100					
Mercury	J	0.000310	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1121	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0122-2

M = Method Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

EPI Laboratory Certifications

AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790	WV - 236		



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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 3 of 3

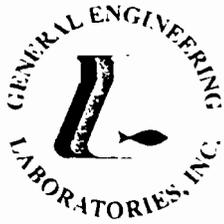
Sample ID : SPORT0122-2

GEL Laboratory Certifications

EPI Laboratory Certifications

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Analytical Report Specialist



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Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0122-3
 Lab ID : 9607608-03
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

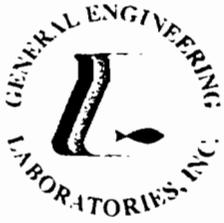
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00706	0.00210	0.500	mg/l	100	TLD	08/02/96	1409	88157	1
Arsenic	U	-0.0283	0.0380	0.500	mg/l	100					
Barium	J	0.226	0.00360	10.0	mg/l	100					
Cadmium	U	0.00419	0.00430	0.100	mg/l	100					
Chromium	J	0.124	0.0390	0.500	mg/l	100					
Lead	J	0.00291	0.00260	0.500	mg/l	100					
Selenium	U	0.00140	0.0240	0.200	mg/l	100					
Mercury	J	0.000590	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1124	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 2 of 3

Sample ID : SPORT0122-3

M = Method Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

GEL Laboratory Certifications

AL - 41040
CA - 2089
DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

AZ - AZ0514
CT - PH-0169
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223
WV - 236

EPI Laboratory Certifications

AL - 41050
CA - I-1023/2056
FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

AZ - AZ0514
CT - PH-0175
MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235



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Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

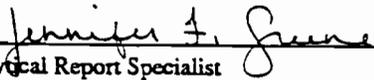
Page 3 of 3

Sample ID : SPORT0122-3

GEL Laboratory Certifications

EPI Laboratory Certifications

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Analytical Report Specialist



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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0122-4
 Lab ID : 9607608-04
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.0104	0.00210	0.500	mg/l	100	TLD	08/02/96	1436	88157	1
Arsenic	U	0.00764	0.0380	0.500	mg/l	100					
Barium	J	0.277	0.00360	10.0	mg/l	100					
Cadmium	U	0.00149	0.00430	0.100	mg/l	100					
Chromium	J	0.168	0.0390	0.500	mg/l	100					
Lead	J	0.00524	0.00260	0.500	mg/l	100					
Selenium	J	0.0801	0.0240	0.200	mg/l	100					
Mercury	J	0.000750	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1126	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

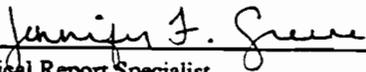
Page 3 of 3

Sample ID : SPORT0122-4

GEL Laboratory Certifications

EPI Laboratory Certifications

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Analytical Report Specialist



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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

Page 1 of 3

Sample ID : SPORT0122-5
 Lab ID : 9607608-05
 Matrix : TCLP
 Date Collected : 07/31/96
 Date Received : 07/31/96
 Priority : Rush
 Collector : Client

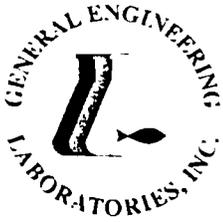
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0299	0.00210	0.500	mg/l	100	TLD	08/02/96	1443	88157	1
Arsenic	U	-0.0300	0.0380	0.500	mg/l	100					
Barium	J	0.343	0.00360	10.0	mg/l	100					
Cadmium		2.32	0.00430	0.100	mg/l	100					
Chromium	J	0.0396	0.0390	0.500	mg/l	100					
Lead	J	0.164	0.00260	0.500	mg/l	100					
Selenium	U	0.0133	0.0240	0.200	mg/l	100					
Mercury	J	0.00127	0.000148	0.0200	mg/l	1.0	RMJ	08/02/96	1129	88110	2

The following prep procedures were performed:

ICP Mass Spec	DVW	08/01/96	1800	88157	3
Mercury	RMJ	08/01/96	2015	88110	2
TCLP Prep for Metals	JL	07/31/96	2055	88058	4

M = Method	Method-Description
M 1	EPA 6020
M 2	EPA 7470
M 3	EPA 3005
M 4	EPA 1311





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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: August 05, 1996

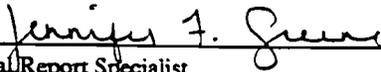
Page 3 of 3

Sample ID : SPORT0122-5

GEL Laboratory Certifications

EPI Laboratory Certifications

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



Analytical Report Specialist

CHAIN OF CUSTODY RECORD

Client Name/Facility Name SPORTENVDETCHASN		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods													Use F or P in the boxes to indicate whether sample was filtered and/or preserved				
Collected by/Company SPORTENVDETCHASN		# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables		PCB's	Cyanide	Coliform - specify type	ASBESTOS
SAMPLE ID	DATE														TIME				
SPORT0131-1	8/6/96	1100																X	BIDG. 44 ANNEX - UPPER ROOF - NE CORNER
SPORT0131-2	8/6/96	1105																X	BIDG. 44 ANNEX - UPPER ROOF - CENTER
SPORT0131-3	8/6/96	1110																X	BIDG. 44 ANNEX - UPPER ROOF - SOUTH END CENTER
SPORT0131-4	8/6/96	1115																X	BIDG. 44 ANNEX - LOWER ROOF - NORTHEAST SIDE
SPORT0131-5	8/6/96	1120																X	BIDG. 44 ANNEX - LOWER ROOF - CENTER - EAST SIDE
SPORT0131-6	8/6/96	1130																X	BIDG. 44 ANNEX - LOWER ROOF - SOUTHWEST CORNER
Relinquished by: <i>L.C. Smith</i>	Date: 8/7/96	Time: 1020	Received by: <i>W.R. Heers, Jr.</i>		Relinquished by: <i>W.R. Heers, Jr.</i>	Date: 8/7/96	Time: 1505	Received by: <i>Jennifer J. Gunn</i>											
Relinquished by:	Date:	Time:	Received by lab by:		Date:	Time:	Remarks:												

Washington, NJ 908-983-4300
 Placentia, NJ 908-361-0650
 Carlo Vista, NY 516-997-7551
 Manhattan, NY 212-290-0052
 Melbourne, FL 407-798-3132
 Ann Arbor, MI 313-488-8070
 San Mateo, CA 415-870-4401
 Smyrna, GA 770-398-8000
 Greensboro, NC 910-497-1007
 Houston, TX 713-666-6425



General Engineering Laboratories, Inc.
 2040 Savage Road
 PO Box 30712
 Charleston, SC 29414

Thursday, August 15, 1996

Ref Number: GA961609

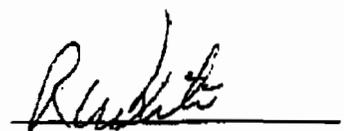
POLARIZED LIGHT MICROSCOPY (PLM)

Project: NPWC 00196

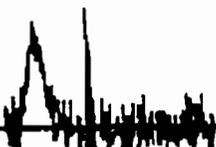
SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBESTOS		NONASBESTOS	
				%	TYPE	%	FIBROUS % NONFIBROUS
SPORT 0131-1		Black Fibrous Heterogeneous	Dissolved	40%	Chrysotile	None Detected	60% Other
SPORT 0131-2		Black Fibrous Heterogeneous	Dissolved	40%	Chrysotile	None Detected	60% Other
SPORT 0131-3		Black Fibrous Heterogeneous	Dissolved/Ashed	2%	Chrysotile	40% Cellulose 5% Synthetic	53% Other
SPORT 0131-4		Black Fibrous Heterogeneous	Dissolved	20%	Chrysotile	20% Cellulose 10% Glass	50% Other
SPORT 0131-5		Black Fibrous Heterogeneous	Dissolved	15%	Chrysotile	15% Cellulose 5% Glass	65% Other
SPORT 0131-6		Black Fibrous Heterogeneous	Dissolved	20%	Chrysotile	15% Cellulose	65% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.


 Craig Coombs
 Analyst


 Approved Signatory

Disclaimer: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Floor tiles and pipes should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in full with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All "NVLAP" reports with NVLAP logo must contain at least one signature to be valid. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.



CHAIN OF CUSTODY RECORD

Page 1 of 1

Client Name/Facility Name <i>SPORTENDETCHASN</i>		SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods										Remarks						
Collected by/Company <i>SPORTENDETCHASN</i>		pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol		Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS											
<i>SPORT0199-1</i>	<i>10/9/96</i>	<i>0910</i>					<i>X</i>							<i>X</i>				<i>NBCE025V000100</i>
Relinquished by: <i>John McLean</i>	Date: <i>10/9/96</i>	Time: <i>0932</i>	Received by: <i>W.R. Hiers, Jr.</i>				Relinquished by: <i>W.R. Hiers, Jr.</i>	Date: <i>10/9/96</i>	Time: <i>1430</i>	Received by: <i>Bill R Moore</i>								
Relinquished by:	Date:	Time:	Received by lab by:				Date:	Time:	Remarks:									

White = sample collector Yellow = file Pink = with report



GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	ES7156/87294	ES7492/87458
NC	233	
SC	10120	10382
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiser

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 18, 1996

Page 1 of 2

Sample ID : SPORT0199-1
 Lab ID : 9610228-01
 Matrix : Misc.
 Date Collected : 10/09/96
 Date Received : 10/09/96
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Extractable Organics											
<i>PCB analysis - 7 items</i>											
PCB-1016	U	0.00	78.8	98.5	ug/kg	10.	JPA	10/16/96	0233	92137	1
PCB-1221	U	0.00	78.8	98.5	ug/kg	10.					
PCB-1232	U	0.00	78.8	98.5	ug/kg	10.					
PCB-1242	U	0.00	78.8	98.5	ug/kg	10.					
PCB-1248	U	0.00	78.8	98.5	ug/kg	10.					
PCB-1254	U	0.00	78.8	98.5	ug/kg	10.					
PCB-1260		229	78.8	98.5	ug/kg	10.					

The following prep procedures were performed:

PCB's

DDT 10/11/96 2130 92137 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
4CMX	PCB	64.0	(50.0 - 150.)

M = Method	Method-Description
M 1	EPA 8080
M 2	EPA 3550

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FL	287156/87294	287472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hierr

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 18, 1996

Page 2 of 2

Sample ID : SPORT0199-1

M = Method	Method-Description
------------	--------------------

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

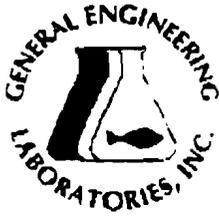
This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
 Reviewed By

CHAIN OF CUSTODY RECORD

Client Name/Facility Name			Collected by/Company			# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods													Remarks					
SPORTENY DETCHASIN			SPORTENY DETCHASIN				pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's		Cyanide	Coliform - specify type			
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB																			
SPOKID320-1	2/3/97	0800				X	1					X													BLDG. 44 concrete column
SPOKID320-2	2/3/97	0900				X	1					X													BLDG. 44 UPPER ROOF
Relinquished by:	Date:	Time:	Received by:			Relinquished by:	Date:	Time:	Received by:																
John Nelson	2/3/97	1000	Fred S. Nelson			Fred S. Nelson	2-3-97	1434	Bob Nelson																
Relinquished by:	Date:	Time:	Received by lab by:			Date:	Time:	Remarks:																	

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87254	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

CONCRETE SAMPLE
 FROM COLUMN AFTER
 CLEANING

cc: NPWC00196

Report Date: February 12, 1997

Page 1 of 2

Sample ID : SPORT0328-1
 Lab ID : 9702027-01
 Matrix : TCLP
 Date Collected : 02/03/97
 Date Received : 02/03/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00830	0.00780	0.500	mg/l	1.0	JSS	02/08/97	1458	97502	1
Arsenic	U	-0.0648	0.0421	0.500	mg/l	1.0					
Barium	J	0.115	0.00220	10.0	mg/l	1.0					
Cadmium	U	-0.00313	0.00330	0.100	mg/l	1.0					
Chromium		85.6	0.00420	0.500	mg/l	1.0					
Lead	U	-0.0485	0.0364	0.500	mg/l	1.0					
Selenium		6.70	0.0841	0.300	mg/l	1.0					
Mercury	J	0.00139	0.000148	0.0200	mg/l	1.0	RMJ	02/07/97	1542	97513	2

The following prep procedures were performed:

ICP	FGD	02/06/97	1430	97502	3
Mercury	CRB	02/06/97	1945	97513	4
TCLP Prep for Metals	JL	02/05/97	1635	97372	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

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FL	E87156/87294	E87672/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 12, 1997

Page 2 of 2

Sample ID : SPORT0328-1

M = Method	Method-Description
------------	--------------------

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

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 in accordance with General Engineering Laboratories
 standard operating procedures. Please direct
 any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Reviewed By

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87438
NC	233	
SC	10120	10382
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

*CONCRETE SAMPLE
 FROM ROOF.*

Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 12, 1997

Page 1 of 2

Sample ID : SPORT0328-2
 Lab ID : 9702027-02
 Matrix : TCLP
 Date Collected : 02/03/97
 Date Received : 02/03/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.0120	0.00780	0.500	mg/l	1.0	JSS	02/08/97	1455	97502	1
Arsenic	U	-0.0700	0.0421	0.500	mg/l	1.0					
Barium	J	0.0864	0.00220	10.0	mg/l	1.0					
Cadmium	U	-0.00566	0.00330	0.100	mg/l	1.0					
Chromium		76.6	0.00420	0.500	mg/l	1.0					
Lead	U	-0.0149	0.0364	0.500	mg/l	1.0					
Selenium		5.76	0.0841	0.300	mg/l	1.0					
Mercury	J	0.00123	0.000148	0.0200	mg/l	1.0	RMJ	02/07/97	1544	97513	2

The following prep procedures were performed:

ICP	FGD	02/06/97	1430	97502	3
Mercury	CRB	02/06/97	1943	97513	4
TCLP Prep for Metals	JL	02/05/97	1635	97372	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

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9702027-02



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STATE	GEL	EPI
FL	E87156/R7294	E87472/R7458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 12, 1997

Page 2 of 2

Sample ID : SPORT0328-2

M = Method	Method-Description
------------	--------------------

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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9702027-02



3-DAY TUR. AROUND

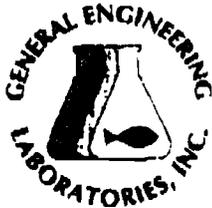
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CHAIN OF CUSTODY RECORD

Page 1 of 1

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods										Remarks						
SPORTENDET CHASN		pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	TCLP METALS - specify	Pesticide	Herbicide	Total Phenol		Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS											
SPORT0356-1	2/25/97	11:30				X	1											2 Places 3 rd Beam
SPORT0356-2	2/25/97	11:50				X	1											2 Places 4 th Beam
SPORT0356-3	2/25/97	12:15				X	1											2 Places 5 th Beam
3-DAY TURW-AROUND																		
Relinquished by:		Date:	Time:	Received by:				Relinquished by:				Date:	Time:	Received by:				
<i>[Signature]</i>		2/25/97	1315	<i>[Signature]</i>														
Relinquished by:		Date:	Time:	Received by lab by:				Date:	Time:	Remarks:								

White = sample collector Yellow = file Pink = with report



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FL	897156/87294	887472/87451
NC	233	
SC	10120	10582
TN	02894	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 28, 1997

Page 1 of 2

Sample ID : SPORT0356-1
 Lab ID : 9702505-01
 Matrix : TCLP
 Date Collected : 02/25/97
 Date Received : 02/25/97
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	0.00370	0.00780	0.500	mg/l	1.0	JSS	02/25/97	1556	98351	1
Arsenic	U	-0.114	0.0421	0.500	mg/l	1.0					
Barium	J	0.0683	0.00220	10.0	mg/l	1.0					
Cadmium	U	0.00151	0.00330	0.100	mg/l	1.0					
Chromium		14.9	0.00420	0.500	mg/l	1.0					
Lead	U	0.0359	0.0364	0.500	mg/l	1.0					
Selenium	U	-0.127	0.0841	0.300	mg/l	1.0					
Mercury	U	-0.000420	0.000148	0.0200	mg/l	1.0	CRB	02/26/97	1945	98353	2

The following prep procedures were performed:

ICP	CRB	02/26/97	1515	98351	3
Mercury	CRB	02/26/97	1700	98353	4
TCLP Prep for Metals	JL	02/25/97	1735	98316	5

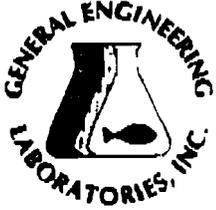
M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

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Laboratory Certifications

STATE	GEL	EPI
FL	B67156/87284	E87472/87431
NC	233	
SC	10120	10582
TN	02834	02834

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2105

Contact: Mr. Bill Hless

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 28, 1997

Page 2 of 2

Sample ID: 18PORT0356-1

M = Method	Method-Description
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Notes:

The qualifiers in this report are defined as follows:

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

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

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

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Karen Blakemey

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Laboratory Certifications

STATE	DEL	EPI
FL	887156/17294	887472/97458
NC	233	
SC	10120	10582
TN	02534	02834

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hies

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 28, 1997

Page 1 of 2

Sample ID : SPORT0356-2
 Lab ID : 9702505-02
 Matrix : TCLP
 Date Collected : 02/23/97
 Date Received : 02/25/97
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.000430	0.00780	0.500	mg/l	1.0	JSS	02/26/97	1602	98351	1
Arsenic	U	-0.140	0.0421	0.500	mg/l	1.0					
Barium	J	0.0478	0.00220	10.0	mg/l	1.0					
Cadmium	U	-0.00231	0.00330	0.100	mg/l	1.0					
Chromium		54.2	0.00420	0.500	mg/l	1.0					
Lead	U	-0.0166	0.0364	0.500	mg/l	1.0					
Selenium	U	0.0349	0.0841	0.300	mg/l	1.0					
Mercury	U	-0.000410	0.000148	0.0200	mg/l	1.0	CRB	02/26/97	1947	98353	2

The following prep procedures were performed:

ICP CRB 02/26/97 1515 98351 3
 Mercury CRB 02/26/97 1700 98353 4
 TCLP Prep for Metals JL 02/25/97 1735 98316 5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

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STATE	QEL	EPI
FL	887156/87294	887472/87458
NC	231	
SC	10120	10382
TN	02954	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiem

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 28, 1997

Page 2 of 2

Sample ID : SPORT0356-2

M = Method Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

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Laboratory Certifications

STATE	GEL	EPI
FL	887198/87294	887472/87488
NC	233	
SC	10120	10883
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Eav.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 28, 1997

Page 1 of 2

Sample ID : SPORT0356-3
 Lab ID : 9702505-03
 Matrix : TCLP
 Date Collected : 02/25/97
 Date Received : 02/25/97
 Priority : Rush
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.000210	0.00780	0.500	mg/l	1.0	JSS	02/26/97	1606	98351	1
Arsenic	U	-0.145	0.0421	0.500	mg/l	1.0					
Barium	J	0.0506	0.00220	10.0	mg/l	1.0					
Cadmium	U	-0.00180	0.00330	0.100	mg/l	1.0					
Chromium		18.0	0.00420	0.500	mg/l	1.0					
Lead	U	-0.00911	0.0364	0.500	mg/l	1.0					
Selenium	U	0.0416	0.0841	0.300	mg/l	1.0					
Mercury	U	-0.0000700	0.000148	0.0200	mg/l	1.0	CRB	02/26/97	1949	98353	2

The following prep procedures were performed:

ICP	CRB	02/26/97	1515	98351	3
Mercury	CRB	02/26/97	1700	98353	4
TCLP Prep for Metals	JL	02/25/97	1735	98316	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

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NC	233	
SC	10320	10883
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 28, 1997

Page 2 of 2

Sample ID : SPORT0356-3

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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STATE	OEL	EPI
FL	EE7156/87294	EE7472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 1 of 2

Sample ID : SPORT0357-1
 Lab ID : 9702508-01
 Matrix : Misc.
 Date Collected : 02/25/97
 Date Received : 02/25/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury		191	2.46	33.2	ug/kg	1.0	RMJ	02/27/97	1345	98354	N
Silver		28500	116	500	ug/kg	1.0	MBL	03/02/97	1244	98397	1
Arsenic		18200	86.9	500	ug/kg	1.0					
Barium		139000	3.10	500	ug/kg	1.0					
Cadmium		255000	4.53	250	ug/kg	1.0					
Chromium		2210000	27.8	500	ug/kg	1.0					
Lead		2090000	52.8	250	ug/kg	1.0					
Selenium	U	24.8	66.8	250	ug/kg	1.0					

The following prep procedures were performed:

Mercury CRB 02/26/97 1800 98354 2
 TRACE CRB 02/27/97 2100 98397 3

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

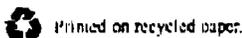
- ND indicates that the analyte was not detected at a concentration greater than the detection limit.
- J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
- U indicates that the analyte was not detected at a concentration greater than the detection limit.
- * indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Laboratory Certifications

STATE	GEL	EMI
FL	EE7156/87294	EE7472/87458
NC	233	
SC	10120	10512
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 2 of 2

Sample ID : SPORT0357-1

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Client Name/Facility Name		SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods											Remarks						
SPORTENVDETCHASN		pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specific Method required	TC - Pesticides METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables		B/N Extractables	PCB's	Cyanide	Coliform - specify type	SWIPE ROCK METALS	TOTAL CYANIDE
Collected by/Company		WELL	SOIL	COMP	GRAB	# OF CONTAINERS												Remarks	
SPORTENVDETCHASN																			
SAMPLE ID	DATE	TIME																	
SPORTΦ39Φ-1	3/21/97	Φ9ΦΦ			X	1												X	INSIDE VAULT WALLS
SPORTΦ39Φ-2	3/21/97	Φ91Φ			X	1												X	OUTSIDE VAULT WALLS
SPORTΦ39Φ-3	3/21/97	Φ92Φ			X	1												X	FLOOR RESIDUE INSIDE VAULT
SPORTΦ39Φ-4	3/21/97	Φ93Φ				1											X		SWIPE CONDUIT PIPE
Relinquished by:	Date:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:	Received by:								
<i>[Signature]</i>	03/21/97	0957	W. R. Hier, Jr.		3/21/97	1456	W. R. Hier, Jr.		3/21/97	1456	R. R. Moore								
Relinquished by:	Date:	Time:	Received by lab by:		Date:	Time:	Remarks:												
R. R. Moore																			

White = sample collector Yellow = file Pink = with report



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SC	10120	10582
TN	02934	02934

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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1997

Page 1 of 2

Sample ID : SPORT0390-1
 Lab ID : 9703483-02
 Matrix : Soil
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis										
Silver	J	0.666	0.368	2.50 mg/kg	1.0	JSS	03/28/97	1222	99615	1
Arsenic	J	7.29	1.99	14.2 mg/kg	1.0					
Barium		66.1	0.104	2.50 mg/kg	1.0					
Cadmium		11.6	0.156	2.50 mg/kg	1.0					
Chromium		5180	0.198	2.50 mg/kg	1.0					
Lead		11.6	1.72	4.72 mg/kg	1.0					
Selenium	J	49.5	19.8	70.8 mg/kg	5.0	JSS	03/28/97	1237	99615	1
Mercury	J	0.0900	0.0166	0.200 mg/kg	1.0	RMI	03/25/97	1306	99618	N
General Chemistry										
Cyanide, Total		0.953	0.0749	0.499 mg/kg	1.0	JWF	03/27/97	1550	99569	2

The following prep procedures were performed:

ICP FGD 03/25/97 1830 99615 3
 Mercury CRB 03/24/97 1730 99618 4

M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A/9012
M 3	EPA 3050
M 4	EPA 7471

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SC	10128	10582
TN	02934	02934

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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1997

Page 2 of 2

Sample ID : SPORT0390-1

M = Method	Method-Description
------------	--------------------

Notes:

The qualifiers in this report are defined as follows:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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Page 1 of 2

Sample ID : SPORT0390-1
 Lab ID : 9703483-01
 Matrix : TCLP
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	0.000850	0.00780	0.500	mg/l	1.0	JSS	03/28/97	1441	99831	1
Arsenic	U	-0.0874	0.0421	0.500	mg/l	1.0					
Barium	J	0.154	0.00220	10.0	mg/l	1.0					
Cadmium	J	0.0527	0.00330	0.100	mg/l	1.0					
Chromium		213	0.00420	0.500	mg/l	1.0					
Lead	U	-0.103	0.0364	0.500	mg/l	1.0					
Selenium	U	0.0232	0.252	0.900	mg/l	3.0					
Mercury	U	-0.000840	0.00100	0.0200	mg/l	1.0	CRB	03/27/97	2128	99749	2

The following prep procedures were performed:

ICP	FGD	03/27/97	1230	99831	3
Mercury	RMJ	03/27/97	1600	99749	4
TCLP Prep for Metals	JL	03/25/97	1700	99699	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

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Sample ID : SPORT0390-1

M = Method

Method-Description

Notes:

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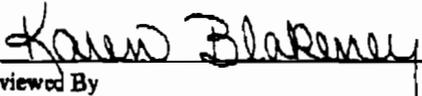
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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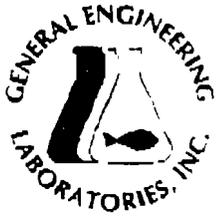
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Sample ID : SPORT0390-2
 Lab ID : 9703483-03
 Matrix : Soil
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver		5.00	0.382	2.50	mg/kg	1.0	JSS	03/28/97	1226	99615	1
Arsenic	J	5.41	2.06	14.7	mg/kg	1.0					
Barium		91.7	0.108	2.50	mg/kg	1.0					
Cadmium		5.40	0.162	2.50	mg/kg	1.0					
Chromium		2320	0.206	2.50	mg/kg	1.0					
Lead		24.9	1.78	4.90	mg/kg	1.0					
Selenium		201	4.12	14.7	mg/kg	1.0					
Mercury	J	0.0989	0.0129	0.200	mg/kg	1.0	RMJ	03/25/97	1308	99618	N
General Chemistry											
Cyanide, Total		0.523	0.0749	0.499	mg/kg	1.0	JWF	03/27/97	1551	99569	2

The following prep procedures were performed:

ICP FGD 03/25/97 1830 99615 3
 Mercury CRB 03/24/97 1730 99618 4

M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A/9012
M 3	EPA 3050
M 4	EPA 7471

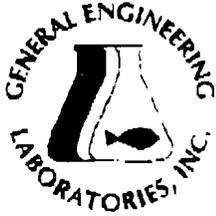
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NC	233	
SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers

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Report Date: March 31, 1997

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Sample ID : SPORT0390-2

M = Method

Method-Description

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Contact: Mr. Bill Hiers

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Sample ID : SPORT0390-2
 Lab ID : 9703483-04
 Matrix : TCLP
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	U	0.00676	0.00780	0.500	mg/l	1.0	JSS	03/28/97	1445	99831	1
Arsenic	U	-0.0648	0.0421	0.500	mg/l	1.0					
Barium	J	0.228	0.00220	10.0	mg/l	1.0					
Cadmium	J	0.00402	0.00330	0.100	mg/l	1.0					
Chromium		4.15	0.00420	0.500	mg/l	1.0					
Lead	U	0.00156	0.0364	0.500	mg/l	1.0					
Selenium		0.399	0.0841	0.300	mg/l	1.0					
Mercury	U	0.000250	0.00100	0.0200	mg/l	1.0	CRB	03/27/97	2130	99749	2

The following prep procedures were performed:

ICP	FGD	03/27/97	1230	99831	3
Mercury	RMJ	03/27/97	1600	99749	4
TCLP Prep for Metals	JL	03/25/97	1700	99699	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

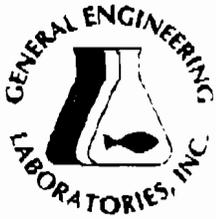
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0390-2

M = Method

Method-Description

Notes:

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

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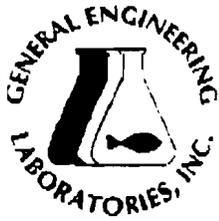
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: March 31, 1997

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Sample ID : SPORT0390-3
 Lab ID : 9703483-06
 Matrix : Soil
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver		11.8	0.378	2.50	mg/kg	1.0	JSS	03/28/97	1230	99615	1
Arsenic	J	5.96	2.04	14.6	mg/kg	1.0					
Barium		102	0.107	2.50	mg/kg	1.0					
Cadmium		36.8	0.160	2.50	mg/kg	1.0					
Chromium		3030	0.204	2.50	mg/kg	1.0					
Lead		782	1.77	4.85	mg/kg	1.0					
Selenium	J	56.3	20.4	72.8	mg/kg	5.0	JSS	03/28/97	1242	99615	1
Mercury		0.734	0.0165	0.200	mg/kg	1.0	RMJ	03/25/97	1310	99618	N
General Chemistry											
Cyanide, Total		2.15	0.0749	0.499	mg/kg	1.0	JWF	03/27/97	1552	99569	2

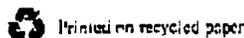
The following prep procedures were performed:

ICP	FGD	03/25/97	1830	99615	3
Mercury	CRB	03/24/97	1730	99618	4

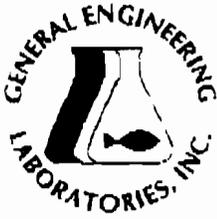
M = Method	Method-Description
M 1	EPA 6010A
M 2	SW846 9010A/9012
M 3	EPA 3050
M 4	EPA 7471

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SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0390-3

M = Method	Method-Description
------------	--------------------

Notes:

The qualifiers in this report are defined as follows:

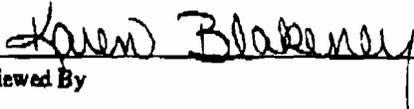
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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NC	233	
SC	10120	10382
TN	02934	02934

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0390-3
 Lab ID : 9703483-05
 Matrix : TCLP
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0151	0.00780	0.500	mg/l	1.0	JSS	03/28/97	1449	99831	1
Arsenic	U	-0.0424	0.0421	0.500	mg/l	1.0					
Barium	J	0.638	0.00220	10.0	mg/l	1.0					
Cadmium		0.301	0.00330	0.100	mg/l	1.0					
Chromium		12.8	0.00420	0.500	mg/l	1.0					
Lead	J	0.103	0.0364	0.500	mg/l	1.0					
Selenium	U	-0.177	0.252	0.900	mg/l	3.0	JSS	03/28/97	1543	99831	1
Mercury	U	0.000360	0.00100	0.0200	mg/l	1.0	CRB	03/27/97	2133	99749	2

The following prep procedures were performed:

ICP	FGD	03/27/97	1230	99831	3
Mercury	RMJ	03/27/97	1600	99749	4
TCLP Prep for Metals	JL	03/25/97	1700	99699	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

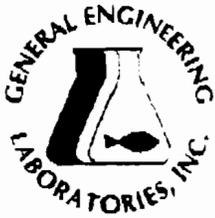
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0390-3

M = Method

Method-Description

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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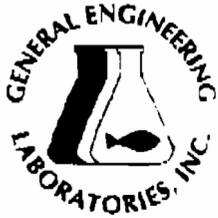
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STATE	GEL	EPI
FL	EF7136/87294	E87472/87438
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: March 31, 1997

Page 1 of 1

Sample ID : SPORT0390-4
 Lab ID : 9703483-07
 Matrix : Swipes
 Date Collected : 03/21/97
 Date Received : 03/21/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver		1340	242	1250ug/wipe		1.0	JSS	03/27/97	1526	99770	1
Arsenic	U	-7940	645	5000ug/wipe		1.0					
Barium		8790	224	1250ug/wipe		1.0					
Cadmium		2260	116	250ug/wipe		1.0					
Chromium		4310000	278	1250ug/wipe		1.0					
Lead		213000	1870	5000ug/wipe		1.0					
Selenium	U	-4140	1500	5000ug/wipe		1.0					

M = Method

Method-Description

M 1

EPA 6010A

Notes:

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

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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

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

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
 Reviewed By

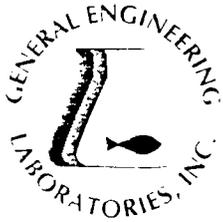
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9703483-07



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 1 of 2

Sample ID : SPORT0392-1
 Lab ID : 9703508-01
 Matrix : TCLP
 Date Collected : 03/24/97
 Date Received : 03/24/97
 Priority : Routine
 Collector : Client

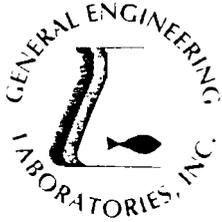
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Silver	J	0.0266	0.00780	0.500	mg/l	1.0	JSS	03/28/97	1455	99831	1
Arsenic	U	0.000160	0.0421	0.500	mg/l	1.0					
Barium	J	0.0375	0.00220	10.0	mg/l	1.0					
Cadmium	U	-0.00228	0.00330	0.100	mg/l	1.0					
Chromium		1.57	0.00420	0.500	mg/l	1.0					
Lead	U	0.0143	0.0364	0.500	mg/l	1.0					
Selenium	U	-0.387	0.0841	0.300	mg/l	1.0					
Mercury	U	0.000330	0.00100	0.0200	mg/l	1.0	CRB	03/27/97	2140	99749	2

The following prep procedures were performed:

ICP	FGD	03/27/97	1230	99831	3
Mercury	RMJ	03/27/97	1600	99749	4
TCLP Prep for Metals	JL	03/26/97	1715	99699	5

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311





GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 2 of 2

Sample ID : SPORT0392-1

M = Method	Method-Description
------------	--------------------

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

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Reviewed By



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87488
NC	233	
SC	10120	10512
TN	02734	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1997

Page 1 of 2

Sample ID : SPORT0405-1
 Lab ID : 9704033-01
 Matrix : Waste:H2O
 Date Collected : 04/01/97
 Date Received : 04/01/97
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Metals Analysis											
Mercury	J	0.174	0.0148	0.500	ug/l	1.0	RMJ	04/03/97	1803	100128	1
Silver	J	2.52	2.49	10.0	ug/l	1.0	MBL	04/04/97	1212	100044	2
Aluminum		6480	11.9	50.0	ug/l	1.0					
Arsenic	U	4.57	1.86	10.0	ug/l	1.0					
Boron		64.5	11.2	50.0	ug/l	1.0					
Barium		18.6	0.0663	10.0	ug/l	1.0					
Beryllium	J	0.382	0.0114	5.00	ug/l	1.0					
Cadmium		97.5	0.0970	5.00	ug/l	1.0					
Cobalt	J	7.27	0.176	10.0	ug/l	1.0					
Chromium		105000	2.98	50.0	ug/l	5.0	MBL	04/04/97	1157	100044	2
Copper		1370	0.539	10.0	ug/l	1.0	MBL	04/04/97	1212	100044	2
Iron		283	10.1	50.0	ug/l	1.0					
Magnesium		3110	2.35	10.0	ug/l	1.0					
Manganese		462	0.0962	10.0	ug/l	1.0					
Molybdenum	J	4.92	1.06	10.0	ug/l	1.0					
Nickel		209	0.807	10.0	ug/l	1.0					
Lead		33.2	1.13	5.00	ug/l	1.0					
Antimony		291	0.958	10.0	ug/l	1.0					
Selenium	U	-2.56	1.43	5.00	ug/l	1.0					
Tin	U	-0.295	1.09	10.0	ug/l	1.0					
Titanium	J	6.87	1.47	10.0	ug/l	1.0					
Thallium	J	9.96	2.07	10.0	ug/l	1.0					
Zinc		1800	2.70	20.0	ug/l	1.0					
General Chemistry											
Cyanide, Total	J	0.00243	0.00147	0.0100	mg/l	1.0	JWF	04/04/97	1452	100086	3
Chromium, Hexavalent		0.0880	0.00500	0.0300	mg/l	1.0	LIB	04/01/97	1845	100020	4
Oil & Grease	U	0.200	1.67	2.00	mg/l	1.0	SLR	04/02/97	1200	100039	5
pH - 2 Items											

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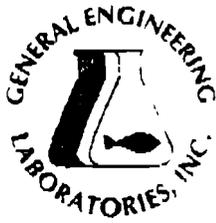
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Laboratory Certifications

STATE	QEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	18120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Holston Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 08, 1997

Page 2 of 2

Sample ID : SPORT0405-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
pH		4.81	0.0100	0.0100	SU	1.0	LJB	04/01/97	1801	100006	6
pH Temperature		19.8	0.100	0.100	C	1.0	LJB	04/01/97	1801	100006	6

The following prep procedures were performed:

Mercury
 TRACE

RMJ 04/03/97 1200 100128 1
 CRB 04/03/97 1600 100044 7

M = Method

Method-Description

M 1	EPA 245.1
M 2	EPA 200.7
M 3	EPA 335.3/335.4
M 4	EPA 7196
M 5	EPA 413.1
M 6	EPA 150.1/SW 846 9040
M 7	EPA 3005

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 Reviewed By

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9704033-01

APPENDIX C

SHIPPING MANIFEST



South Carolina Department of Health and Environmental Control

DET SER # 7093 H402

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. 1004 0005 0006 0010 0011
Manifest Document No. 13776

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
Laidlaw Environmental Services (T6), Inc.
240019 N. Charleston Blvd, Charleston, SC 29405
PO Box 746 29385

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

4. Generator's Phone (803) 746-1985

5. Transporter 1 Company Name Laidlaw Environmental Services (T6), Inc.
6. U.S. EPA ID Number 1004 0005 0006 0010 0011

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 (T6), Inc.
240019 N. Charleston Blvd, Charleston, SC 29405
PO Box 746 29385

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
15. Waste Number

a. 100 lbs of hazardous waste (solid, non-hazardous, ignitable, corrosive, reactive, toxic, and flammable liquid)

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
Solid waste, non-hazardous, ignitable, corrosive, reactive, toxic, and flammable liquid
21663
No large quantity generator. Rick Nielson or Paul J. Wilford
803-746-1985

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. SW, 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. Drury

Signature [Signature]

Month Day Year 04 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name William Horley (85755)

Signature [Signature]

Month Day Year 07 29 91

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

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DETSER # 7093HH01

Bureau of Solid & Hazardous Waste Mgt.
2600 Bell 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. 5000170022060
Manifest Document No. 13175

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
DYNAPAC CONSTRUCTION, Inc. 1000 Box
Columbia, SC 29405

A. State Manifest Document Number

4. Generator's Phone (803) 743-1985

B. State Generator's ID

5. Transporter 1 Company Name
DYNAPAC Environmental Services, Inc.

6. U.S. EPA ID Number

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
South Carolina Department of Health and Environmental Control
Columbia, South Carolina 29155

10. U.S. EPA ID Number

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. 30 Gallons of Waste Oil, 100 lbs.

b.

c.

d.

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

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Code is: 1000, 1001, 1002, 1003, 1004
If you have any questions contact: Rick Nielson or Gary Crawford
(803) 743-4000

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: E. STUBBS Signature: E. Stubbs Month: 10 Day: 17 Year: 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month: Day: Year:

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

TRANSPORTER

RECEIVER



South Carolina Department of Health and Environmental Control

DET SEC # 7091 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. SC0170024500
Manifest Document No. 13167

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 SOUTH DIVNAVAFENCOM, Caretaker Site Office, PO Box 170010, S. Charleston, SC 29419-0010		A. State Manifest Document Number	
4. Generator's Phone (803) 743-9985		B. State Generator's ID	
5. Transporter 1 Company Name SOUTH DIVNAVAFENCOM, Inc.	6. U.S. EPA ID Number SC0170024500	C. State Transporter's ID 803-734-6060	D. Transporter's Phone
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 SOUTH DIVNAVAFENCOM, Inc. PO Box 170010, Pinewood, South Carolina 29125		10. U.S. EPA ID Number SC0170024500	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	F. Waste Number
a. NO. Hazardous waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	0 0 1 0 N	1 0 Y		D-007 D008
b.				
c.				

J. Additional Descriptions for Materials Listed Above a. UN 1333 - 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 14. - D004, D005, E006, 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: WILLES P. STICKS Signature: [Signature] Month Day Year: 04/11/97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ron T. Varner Signature: [Signature] Month Day Year: 04/10/1997

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: _____ Signature: _____ Month Day Year: _____

GENERATOR
RECEIVED
EPA



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

DECEMBER 7 10 11 44 01

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. 15182

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
DR. GEN. NAVE ACENSUM, Manufacturer - ETC OFFICE, P.O. BOX
1401, Charleston, SC 29412-9010

A. State Manifest Document Number

4. Generator's Phone (803) 43-8985

B. State Generator's ID

5. Transporter 1 Company Name: Global Environmental Services (S), Inc.
6. U.S. EPA ID Number: 21 01 1 21 2 5 1 9 6 4 7

C. State Transporter's ID

D. Transporter's Phone: 803-452-6060

7. Transporter 2 Company Name

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Global Environmental Services of South Carolina, Inc.
10. U.S. EPA ID Number: 21 01 0 0 7 0 3 7 2 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

L. Waste Number

a. ... class solid, ... NA3077, ...

0 1 0 0 0

010101
010001

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
... emergency contacts: Rick Nelson or Gary Crawford
(803) 742-4985

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: 74813

Signature: [Signature]

Month Day Year: 01 01 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roy T. Varner

Signature: Roy T. Varner

Month Day Year: 04 01 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
Signature
Month Day Year

GENERATOR

TRANSPORTER

FACILITY



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 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 1 3 7 6 5

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
SOUTH DIVNAV FACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

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

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

C. State Transporter's ID
D. Transporter's Phone (803) 734-6000

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

E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-5000

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. RO, 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

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# 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 Day Year 0 3 3 1 9 7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Roy T. Varner

Signature Roy T. Varner

Month Day Year 0 3 3 1 9 7

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

TRANSPORTER

FACILITY



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. **SC0170022560** Manifest Document No. **13783**

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
SOUTH DIVNA FACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

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

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

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 **803-743-9900**

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**

E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone **(803) 452-5000**

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No. Type	13. Total Quantity	14. Unit Wtr/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.				
d.				

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

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

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 Crawford** Month **03** Day **31** Year **97**

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 _____

9. 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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DET SER # 70854402

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. SC0170022560

Manifest Document No. 13162

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
SOUTH DIVNAVACENGCOM, 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 of South Carolina, Inc. U.S. EPA ID Number SC0987574647

7. Transporter 2 Company Name 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 U.S. EPA ID Number SC070375985

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

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 8
b.				
c.				

J. Additional Descriptions for Materials Except Above
a. PW - 01343 - 1, 1 0 1
b.
c.
d.

K. Handling Codes for Wastes 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

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, PH-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: RICHARD G. NIELSON Signature: [Signature] Month: 03 Day: 26 Year: 97

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:

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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DET SER # 7085 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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. **SC0170022560** 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.

3. Generator's Name and Mailing Address

SOUTH DIVNAV FACENCOM, 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 Pincwood, 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)	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 - 0 1 3 4 3 - 1 1 0 1** c. _____

b. _____ 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

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 **RICHARD G. NIELSON** Signature *Richard G. Nielson* Month **03** Day **26** Year **97**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **William Jackson** Signature *William Jackson* Month **03** Day **28** 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.

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

TRANSPORTER

FACILITY



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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. SC 017002200013700

Manifest Document No. 13700

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
SOUTH DIVNAFACENCOOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29119-9010

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (803) 734-9085

5. Transporter 1 Company Name Laidlaw Environmental Services of South Carolina, Inc.

6. U.S. EPA ID Number SC 017002200013700

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. Box 255 Pinewood, South Carolina 29125

10. U.S. EPA ID Number SC 017002200013700

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	15. Waste Number
a. 80, Hazardous Waste Solid, N.O.S., P. NA3077, Cr III (Chromium, lead)	0 110 M			D-0, 6, 7, 0, 0, 5
b.				
c.				

J. Additional Descriptions for Materials Listed Above
a. PW - 0115 1 3 - 1, 1, 0, 1 c. - - - - -
b. - - - - - d. - - - - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes (a. - 1004, 1305, 1006, 1010, 1011)
WC#
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 734-9085

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 [Signature] Month 03 Day 25 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name William Jackson Signature [Signature] Month 03 Day 25 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.

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

TRANSPORTER

FACILITY



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

DET SER 7083HH02

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. **13153**

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
SOUTH DIVNAFACENCOM, 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	15. Manifest Number	
				Manifest Number	Tracking Number
a. RQ, Hazardous Waste Solid, N.O.S., PG III (chromium, lead)	0 0 1 C M	2 0 Y		D 0 0 7	D 0 0 8
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. **P W - 0 1 5 4 3 - 1 1 0 1** c. _____
b. _____ 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# 89363
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**

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.

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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DET # 7083 HHO/

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. SC 0170022560
Manifest Document No. 13150

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
SOUTHDI VNAVFACEGCOM, 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 SC 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 SC 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 - 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# 216532
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

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 G. NIELSON Signature Richard G. Nielson Month Day Year 03 24 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Lennan Glover Signature Lennan Glover Month Day Year 10 3 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.

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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DET SER # 7079 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

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's U.S. EPA ID No. SC 0170022560 13748 Manifest Document No. 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
SOUTH DIV NAV FAC ENG COM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

State Manifest Document Number
State Generator's ID

4. Generator's Phone (803) 743-9985
5. Transporter 1 Company Name Laidlaw Environmental Services(TG), Inc. 6. U.S. EPA ID Number SC D 9 8 7 5 7 4 6 4 7

State Transporter's ID
Transporter's Phone

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

State Transporter's ID
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 SC D 0 7 0 3 7 5 9 8 5

State Facility's ID
Facility's Phone (803) 452-5000

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	15. 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 - 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# 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.

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 G. NIELSON Signature *Richard G. Nielson* Month Day Year 03 20 97

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

GENERATOR

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DET SER # 7078 HHO1

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. SC0170022560 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
SOUTH DIV NAV FAC ENG COM, 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 WW Vol
a. RO, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	0 0 1 C M	2 0 Y	D 0 0 8
b.			
c.			

a. PW-01343-1101 c. _____

b. _____ d. _____

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - D004, D005, D006, D010, D011
W00 215595
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

Public reporting burden for the 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 the burden, to Chief, Information Policy Branch, PMA-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: **03** Day: **19** Year: **97**

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: _____

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 # 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. S C 0 1 7 0 0 2 2 5 6 0	Manifest Document No. 1 3 7 4 6	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is by State law.
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3. Generator's Name and Mailing Address SOUTH DIVNAVFACENCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010	A. State Manifest Document Number
4. Generator's Phone (803) 743-9985	B. State Generator's ID

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	C. State Transporter's ID	D. Transporter's Phone
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 3 7 5 9 8 5	G. State Facility's ID	H. Facility's Phone
--	---	------------------------	---------------------

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	K. Handling Codes for Waste 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 [a. - 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 <i>Gary Crawford</i>	Month Day Year 03 19 97
---------------------------------------	-----------------------------------	----------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name William C Summers	Signature <i>William C Summers</i>	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	Signature	Month Day Year

GENERATOR

TRANSPORTER

FACILITY



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

Generator's U.S. EPA ID No. SC0170022560 Manifest Document No. 13145

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
SOUTH DIVNAFACENCOM, 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		13. Total Quantity	14. Unit	15. Waste Number
	No.	Type			
a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)	001	CM	20Y		D007 D008
b.					
c.					

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

15. Special Handling Instructions and Additional Information
Additional EPA Waste Codes Ia. - **D004, D005, D006, D010, D011**
WO# **89244 215585**
24 hour emergency contact: **Rick Nielson or Gary Crawford (803) 743-9985**

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 **Richard B. Nielson** Signature *Richard B. Nielson* Month **03** Day **18** Year **97**

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

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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DETSER # 70764401

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. 250011353
Manifest Document No. 1353

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
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
2600 BULL STREET, COLUMBIA, SC 29201

A. State Manifest Document Number

4. Generator's Phone (803) 734-5200

B. State Generator's ID

5. Transporter 1 Company Name
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

C. State Transporter's ID 803-734-6060

7. Transporter 2 Company Name

D. Transporter's Phone

9. Designated Facility Name and Site Address
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
2600 BULL STREET, COLUMBIA, SC 29201

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID
H. Facility's Phone (803) 734-5200

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
15. Waste Number

U.S. DOT Description	Containers No.	Type	Total Quantity	Unit Wt/Vol	Waste Number
a. 001, HAZARDOUS WASTE, LIQUID, INORGANIC, CORROSIVE, SOLUBLE IN WATER, LOAD					
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
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
2600 BULL STREET, COLUMBIA, SC 29201
EMERGENCY CONTACT: Rick Nicholson of SAFCO, CRAWFORD
(803) 734-5200

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: 03/17/97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: _____ Signature: _____ Month Day Year: _____

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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

LETSER# 1072 HHOZ

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. SC 017002256015142
Manifest Document No.

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
SOUTHDI VNAFACENGCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

A. State Manifest Document Number

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

B. State Generator's ID

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

C. State Transporter's ID

D. Transporter's Phone 803-432-6060

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 SC D 0 7 0 3 7 5 9 8 5

E. State Transporter's ID

F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (803) 452-5000

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

15. 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

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# 21552
24 hour emergency contact: Rick Nielson or Gary Crawford (803) 743-9985

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Printed/Typed Name RICHARD G. NIELSON Signature Richard G. Nielson Month Day Year 03 17 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name WILBER WASHINGTON Signature Wilber Washington Month Day Year 03 17 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 Signature Month Day Year

GENERATOR

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

DET SER # 7072 H401

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. 3 1 4 1	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is by State law.
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3. Generator's Name and Mailing Address SOUTH DIV NAV FAC ENG COM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010		A. State Manifest Document Number	
4. Generator's Phone (803) 743-9985		B. State Generator's ID	
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	C. State Transporter's ID	
7. Transporter 2 Company Name	8. U.S. EPA ID Number	D. 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		E. State Transporter's ID	
10. U.S. EPA ID Number S C D 0 7 0 3 7 5 9 8 5		F. Transporter's Phone	
		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	15. 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.				
d.				

J. Additional Descriptions for Materials Listed Above	K. Handling Codes for Wastes 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# 89190
24 hour emergency contact: Rick Nielson or Gary Crawford
(803) 743-9985

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Printed/Typed Name GARY C CRAWFORD	Signature <i>Gary Crawford</i>	Month Day Year 03 14 97
---------------------------------------	-----------------------------------	----------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name RAYMOND SMITH	Signature <i>Raymond Smith</i>	Month Day Year 03 14 97

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

TRANSPORTER

FACILITY



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.
S C 0 1 7 0 0 2 2 5 6 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.

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

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (803) 713-9085

5. Transporter 1 Company Name
Laidlaw Environmental Services of South Carolina, Inc.

6. U.S. EPA ID Number
S C D 9 8 7 5 7 4 6 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 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. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (chromium, lead)

0 0 1 C M

0 0 0 7
0 0 0 3

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 (a. - 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

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: RICHARD G. NIELSON
Signature: Richard G. Nielson
Month Day Year: 03 04 97

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: _____

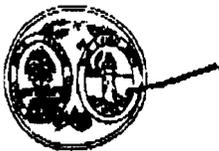
Discrepancy Indication Space
a. _____ lbs c. _____ lbs
b. _____ lbs d. _____ lbs

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

TRANSPORTER

FACILITY



South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.
2800 Bull Street, Columbia, SC 29201
Phone: (803) 734-6200
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. **SC0170022560** 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
SOUTHDIYNAVFACENCOM, Caretaker Site Office, PO Box 190010, N. Charleston, SC 29419-9010

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

4. Generator's Phone (803) 743-9985
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 **803-452-6000**

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	15. 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.				
d.				

J. Additional Descriptions for Materials Listed Above
a. **P W 0 1 3 4 3 1 1 0 1**

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 the 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 Crawford* Month Day Year **02 27 97**

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 _____

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 **Moses** Signature *Charles Moses* Month Day Year **02 28 97**

O R G A N I Z A T I O N

T R A N S P O R T E R

F A C I L I T Y

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 WASTE: BLDG 44 ANNEX 2622 SQFT, BLDG-133 31NFT, 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: FENNEL 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: 1
SIGNATURE OF TRANSPORTER REPRESENTATIVE: J. Doran 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 REPRESENTATIVE: Cassie Meek 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 (1-98)

Enclosure (2)

ORIGINAL

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