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FINAL REPORT FOR INTERIM MEASURE FOR AREA OF CONCERN 684 (AOC684) CNC  
CHARLESTON SC  
1/7/2000  
SOUTH CAROLINA RESEARCH AUTHORITY



# FINAL REPORT

INTERIM MEASURE FOR  
AOC 684  
CHARLESTON NAVAL COMPLEX  
CHARLESTON, SC



Prepared for:

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



Prepared by:

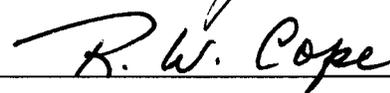
SOUTH CAROLINA RESEARCH AUTHORITY  
Environmental Enterprise Group  
1899 North Hobson Avenue, Bldg. 30  
North Charleston, SC 29405-2106

January 7, 2000

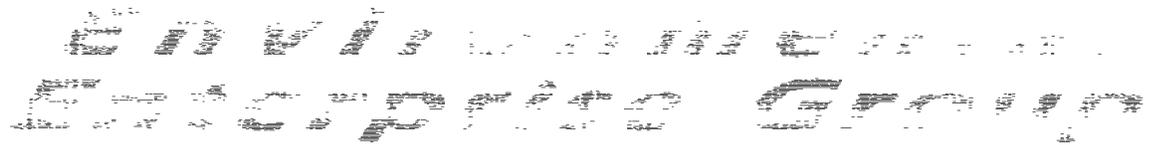
FINAL REPORT  
Interim Measure for  
AOC 684  
Charleston Naval Complex  
Charleston, SC

Engineering Branch Head: 

Date: 1/20/00

Prepared By: 

Date: 1/20/00



Site work for this Interim Measure was completed by SCSHIP, Environmental Detachment Charleston. This report is being submitted by South Carolina Research Authority (SCRA) Environmental Enterprise Group (EEG) established as a result of the US Navy's privatization of SCSHIP, Environmental Detachment Charleston on 13 September, 1999.

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COLUMBIA, SOUTH CAROLINA 29208



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## ACRONYMS, ABBREVIATIONS and SYMBOLS

AOC	Area of Concern
CMS	Corrective Measures Study
CFR	Code of Federal Regulations
DERP	Defense Environmental Restoration Program
DET	Environmental Detachment Charleston
DON	Department of The Navy
EEG	Environmental Enterprise Group
GPS	Global Positioning System
IM	Interim Measure
IR	Installation Restoration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
PPM	Parts Per Million
SARA	Superfund Amendments and Reauthorization Act
SCRA	South Carolina Research Authority
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SUPSHIP	Supervisor of Shipbuilding, Conversion, and Repair
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TSDF	Treatment Storage Disposal Facility
USN	United States Navy



## **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 clean up 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 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 SWMU and AOC 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 SWMU and AOC containing wastes requiring remediation. Eventually, Corrective Measures Studies (CMS) will be prepared to determine the best means of remediating each site.

### **1.2 INTERIM MEASURES**

Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contaminants prior to the completion of the RFI CMS.



### **1.3 AOC 684**

AOC 684 located within SMMU 14 is a former outdoor pistol range in operation from early 1960's until 1981. Firearms were discharged into a soil berm, from which the spent ammunition was not recovered. The soil berm dimensions were approximately 150 feet long, 18 feet wide, and 2-3 feet high. AOC 684 is located in Zone H of the former Charleston Naval Complex. In 1999, the Environmental Detachment Charleston (DET) was tasked with the removal of the soil berm located on the outdoor pistol range.

### **1.4 AOC 684 INTERIM MEASURE**

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 (SUPSHIP), United States Navy (USN), Portsmouth Va. Environmental Detachment Charleston. The scope of this IM was limited to excavation, transportation and disposal of soil to a Subtitle "C" landfill or a permitted Treatment Storage Disposal Facility (TSDF). During performance of this work and prior to job completion the DET transitioned to the South Carolina Research Authority (SCRA) Environmental Enterprise Group (EEG) on 13 September 1999. The EEG was tasked to complete the removal of additional hazardous lead soil from AOC 684.

This IM may not be the final remedial action taken at this site. This IM is consistent with the ultimate cleanup of AOC 684 located in Zone H and is 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**

The following actions were required by the interim measure work plan:

Identify existing utilities at the site

- Remove heavy vegetation
- Remove and dispose of soil berm containing lead shot
- Perform confirmatory sampling to verify Lead residential cleanup levels < 400 ppm as defined for the Naval Complex.

### **2.2 AOC 684 INTERIM MEASURE EXECUTION SUMMARY**

The execution of this IM consisted of removing heavy vegetation, secondary growth and the soil berm containing lead shot. The removal of the vegetation from atop the soil berm and the surrounding area began in late August 1999. The vegetation debris (trees, limbs and trash etc.) removed from this site using haul containers was disposed of in a Subtitle "D" landfill.

The soil containing lead shot was characterized as hazardous based on lead levels resulting from Toxicity Characteristic Leaching Procedure (TCLP) metals analysis performed at a certified laboratory. This characterization required the waste to be disposed in a Subtitle "C" landfill. See Appendix D for Hazardous Waste Manifest. The soil berm was removed using an excavator and loaded into haul trucks. Samples were collected after pistol berm removal to confirm the cleanup level of <400 ppm total lead. See Appendix A, Figure 1 for sample locations and results. Analytical results at sample location 99Sport0265-12 showed lead levels exceeding the cleanup objective; therefore requiring further action.

Additional sampling at the 1 foot interval was performed around sample 99Sport0265-12 to delineate the horizontal and vertical extent of lead contamination. See Appendix A, Figure 2 for sampling locations and results. The sampling revealed sample 99Sport 0265-12 to be an isolated "hit" of lead contamination. This hot spot was removed up to



the adjacent clean sample locations including soil that contained elevated levels of lead (99Sport0265-4) but were <400 ppm. This area measured approximately 20 ' x 18 ' and 1 ' in depth as shown on Figure 2 of Appendix A.

### **2.3 OBSERVATIONS NOTED**

Following site restoration sporadic lead shot, presumably from stray bullets, can still be found on the ground surface surrounding the removed pistol berm; however, the IM successfully removed the pistol berm soil containing large quantities of spent lead shot and soil exceeding 400ppm total lead contamination.

### **2.4 PLAN MODIFICATONS AND JUSTIFICATION**

At the discretion of the Project Manager, two additional outlying confirmatory samples were collected during the initial confirmatory sampling due to the curvature of the pistol berm not seen prior to vegetation removal. When confirmatory sample results revealed sample 99Sport0265-12 contained concentrations of lead exceeding 400 ppm, additional sampling was performed to further delineate the extent of lead contamination.

## **3. SAMPLING**

### **3.1 WASTE CHARACTERIZATION**

Two composite samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) analysis for waste characterization. Analytical results revealed one sample exceeded the maximum concentration of the Toxicity Characteristic for Lead per 40 CFR 261.24 characterizing the soil as hazardous. Laboratory analytical results are provided in Appendix C of this report.



### **3.2 CONFIRMATORY SAMPLING**

The initial round of confirmatory sampling consisted of 14 samples, one of which resulted in levels exceeding the cleanup objective of 400 ppm total lead. See Appendix A, figure 1 for sample locations and results. Refer to Appendix C for Laboratory analytical data. Second round sampling was performed to delineate the surrounding area at sample 99Sport 0265-12 at the one foot interval (Appendix A figure 2). These samples were also used as confirmatory samples to establish a clean line for excavation and revealed lead concentrations did not exceed 400 ppm total lead.

### **3.3 INITIAL SAMPLE LOCATIONS**

The following table provides GPS coordinates for the initial confirmatory samples taken after excavation.

Point ID	Easting (Feet)	Northing (Feet)
99SPORT0265-1	2325817.0771	369009.8003
99SPORT0265-2	2325846.1944	369016.4840
99SPORT0265-3	2325874.6493	369021.8997
99SPORT0265-4	2325902.8048	369033.3594
99SPORT0265-5	2325925.7095	369052.3340
99SPORT0265-6	2325946.7361	369072.3343
99SPORT0265-7	2325844.8462	369024.7228
99SPORT0265-8	2325847.6346	369008.2272
99SPORT0265-9	2325873.2424	369031.6538
99SPORT0265-10	2325876.3037	369014.8063
99SPORT0265-11	2325899.3529	369040.7924
99SPORT0265-12	2325906.6146	369025.2264
99SPORT0265-13	2325920.2294	369059.3874
99SPORT0265-14	2325931.6861	369047.7444



### **3.4 SECOND SET OF SAMPLE LOCATIONS**

The following table provides GPS coordinates for the second set of samples used to delineate and confirm removal of lead concentrations >400 ppm surrounding sample location 99Sport 0265-12.

Point ID	Easting (Feet)	Northing (Feet)
99EEG0010-1	2325909.882	369021.7198
99EEG0010-2	2325901.806	369024.5447
99EEG0010-3	2325910.906	369028.5283
99EEG0010-4	2325907.59	369026.246
99EEG0010-6	2325900.581	369037.4353
99EEG0010-7	2325915.037	369031.2199
99EEG0010-8	2325896.931	369022.2675

## **4.0 WASTE GENERATION**

### **4.1 HAZARDOUS WASTE**

A total of 90 tons of lead hazardous soil was disposed to a permitted Subtitle "C" landfill. The hazardous soil was disposed at Safety-Kleen Inc. Pinewood facility located in Pinewood, South Carolina. Waste manifests are provided in Appendix D.

### **4.2 NON-HAZARDOUS WASTE**

Non-hazardous waste was generated during the accomplishment of this IM in the form of heavy vegetation and transported to a Subtitle D landfill.

## **5. INTERIM MEASURE CONCLUSION**

### **5.1 CONCLUSION**

This IM successfully removed the pistol berm containing large quantities of spent lead shot and soil exceeding 400 ppm total lead contamination.



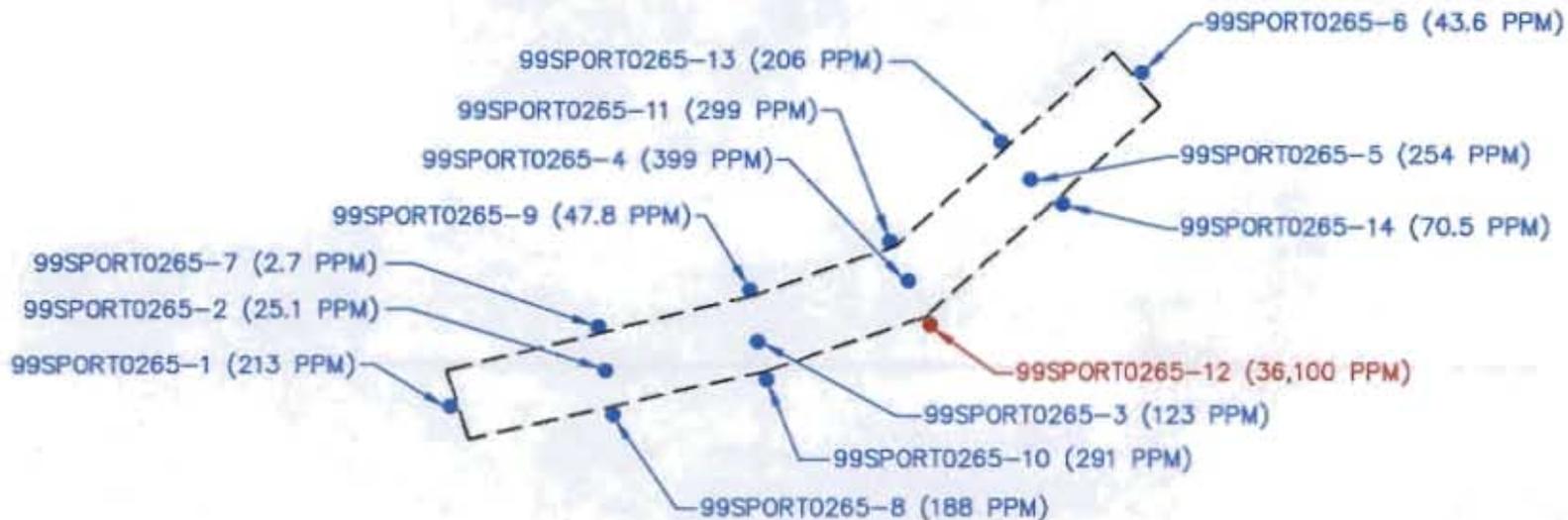
## **5.2 SITE CONDITIONS FOLLOWING COMPLETION OF WORK**

Following completion of site work on 23 December 1999, the site was graded and seeded. Site photographs are provided as Appendix E.



## **APPENDIX A**

BLDG 1888



**LEGEND**

- CONFIRMATORY SAMPLE LOCATION WITH LEAD CONCENTRATION < 400 PPM
- CONFIRMATORY SAMPLE LOCATION WITH LEAD CONCENTRATION > 400 PPM
- FORMER PISTOL RANGE BERM



GRAPHIC SCALE (FT)

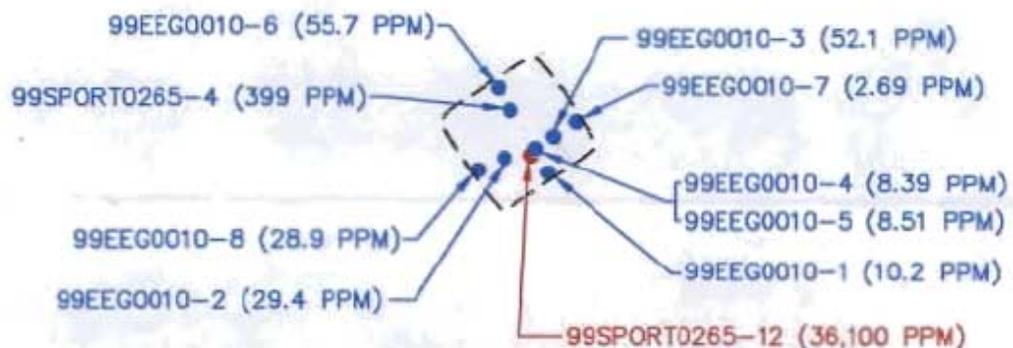


SCRA  
 ENVIRONMENTAL ENTERPRISE GROUP  
 1899 NORTH HOBSON AVENUE - BUILDING 30  
 NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 1  
 AOC 684 - OUTDOOR PISTOL RANGE  
 CHARLESTON NAVAL COMPLEX  
 CHARLESTON, SC

DATE: 04 JANUARY 2000	DRAWN BY: J.I. BROWNLEE	REV -
SCALE: GRAPHIC	SHEET: -	

BLDG 1888



**LEGEND**

- CONFIRMATORY SAMPLE LOCATION WITH LEAD CONCENTRATION < 400 PPM
- CONFIRMATORY SAMPLE LOCATION WITH LEAD CONCENTRATION > 400 PPM
- - - EXCAVATION BOUNDARY



GRAPHIC SCALE (FT)



SCRA  
 ENVIRONMENTAL ENTERPRISE GROUP  
 1899 NORTH HOBSON AVENUE - BUILDING 30  
 NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 2  
 AOC 684 - OUTDOOR PISTOL RANGE  
 CHARLESTON NAVAL COMPLEX  
 CHARLESTON, SC

DATE: 04 JANUARY 2000	DRAWN BY: J.I. BROWNLEE	REV -
SCALE: GRAPHIC	SHEET: -	



## **APPENDIX B**



2600 Bull Street  
Columbia, SC 29201-1708

COMMISSIONER:  
Douglas E. Bryant

July 29, 1999

BOARD:  
John H. Burriss  
Chairman

Henry Shepard II, P.E.  
Caretaker Site Office  
NAVFACENGCOM, Southern Division  
P. O. Box 190010

William M. Hull, Jr., MD  
Vice Chairman

North Charleston, SC 29419-9010

Roger Leaks, Jr.  
Secretary

Mark B. Kent

Re: Interim Measures Work Plan for AOC 684 (Outdoor Pistol Range); dated June 25, 1999; Located in Zone H Charleston Naval Complex SCO 170 022 560. Comment responses and revised pages received on July 23, 1999.

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

Dear Mr. Shepard:

The South Carolina Department of Health and Environmental Control (Department) has reviewed the above referenced Interim Measures Work Plan (6/25/99) according to applicable State and Federal Regulations, and the Charleston Naval Complex Hazardous Waste Permit, effective September 17, 1999. Based on this review the referenced interim measures work plan is approved.

Should you have any questions, please contact me at (803) 896-4185 or Mihir Mehta at (803) 896-4088 or Paul Bergstrand at (803) 896-4016.

Sincerely,

A handwritten signature in cursive script that reads 'David M. Scaturo'.

David M. Scaturo, P.E., P.G., Manager  
Corrective Action Engineering Section  
Bureau of Land & Waste Management

cc: Paul Bergstrand, Hydrogeology  
Rick Richter, Trident EQC  
David Dodds, SOUTH DIV  
Dann Spariosu, EPA Region IV



## APPENDIX C



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
NJ	79002	79002
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 30, 1999

Page 1 of 2

Sample ID 99SPORT0167-01  
 Lab ID : 9904818-01  
 Matrix : TCLP  
 Date Collected 04/27/99  
 Date Received 04/27/99  
 Priority : Rush  
 Collector : Client

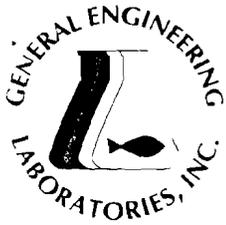
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Mercury	U	ND	0.000350	0.0200	mg/l	1.0	RMJ	04/30/99	1333	147867	
Silver	U	ND	7.30	50.0	ug/l	10.	MBL	04/30/99	1239	146909	2
Arsenic	U	ND	45.1	50.0	ug/l	10.					
Barium		150	5.10	50.0	ug/l	10.					
Cadmium	U	ND	4.40	50.0	ug/l	10.					
Chromium	J	7.71	5.60	50.0	ug/l	10.					
Lead		61.6	15.9	50.0	ug/l	10.					
Selenium	U	ND	27.1	50.0	ug/l	10.					

**The following prep procedures were performed:**

Mercury AJM 04/28/99 1745 147867 3  
 TCLP Prep for Metals JJ 04/27/99 1740 147691 4

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





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## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 30, 1999

Page 2 of 2

Sample ID : 99SPORT0167-01

**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, Elise Hanson at 843-556-8171.

Reviewed By



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E874728
NC	233	
NJ	79002	79002
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 30, 1999

Page 1 of 2

Sample ID : 99SPORT0167-2  
 Lab ID : 9904818-02  
 Matrix : TCLP  
 Date Collected : 04/27/99  
 Date Received : 04/27/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Mercury	U	ND	0.000350	0.0200	mg/l	1.0	RMJ	04/30/99	1335	147867	
Silver	U	ND	7.30	50.0	ug/l	10.	MBL	04/30/99	1244	146909	2
Arsenic	U	ND	45.1	50.0	ug/l	10.					
Barium		143	5.10	50.0	ug/l	10.					
Cadmium	J	4.46	4.40	50.0	ug/l	10					
Chromium	U	ND	5.60	50.0	ug/l	10.					
Lead		28600	15.9	50.0	ug/l	10.					
Selenium	U	ND	27.1	50.0	ug/l	10					

**The following prep procedures were performed:**

Mercury AJM 04/28/99 1745 147867 3  
 TCLP Prep for Metals JJ 04/27/99 1740 147691 4

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





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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

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Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 30, 1999

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Sample ID : 99SPORT0167-2

M = Method	Method-Description
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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, Elise Hanson at 843-556-8171.

Reviewed By

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(843) 556-8171 • Fax (843) 766-1178

\*9904818-02\*





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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

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Sample ID 99SPORT0265-01  
 Lab ID 9909178-01  
 Matrix Soil  
 Date Collected 09/07/99  
 Date Received 09/07/99  
 Priority Rush  
 Collector Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		213	0.141	0.232	mg/kg	5.0	JSS	09/08/99	1929	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**Notes:**

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

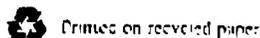
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\*9909178-01\*





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

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID : 99SPORT0265-02  
 Lab ID : 9909178-02  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		25.1	0.144	0.238	mg/kg	5.0	JSS	09/08/99	1935	157866	1

The following prep procedures were performed:

ICP Mass Spec

FGD 09/08/99 1330 157866 2

### M = Method

### Method-Description

M 1 SW 846 6020  
 M 2 EPA 3050

### Notes:

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North Charleston, South Carolina 29405-2106

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

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID: 99SPORT0265-03  
Lab ID: 9909178-03  
Matrix: Soil  
Date Collected: 09/07/99  
Date Received: 09/07/99  
Priority: Rush  
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		123	0.144	0.238	mg/kg	5.0	JSS	09/08/99	1941	157866	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

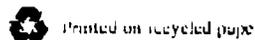
This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By: 

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\*9909178-03\*





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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID : 99SPORT0265-04  
 Lab ID : 9909178-04  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		399	0.143	0.236	mg/kg	5.0	JSS	09/08/99	1947	157866	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 5020
M 2	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.

L 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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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID : 99SPORT0265-05  
 Lab ID : 9909178-05  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		254	0.147	0.243	mg/kg	5.0	JSS	09/08/99	1953	157866	1

The following prep procedures were performed:

ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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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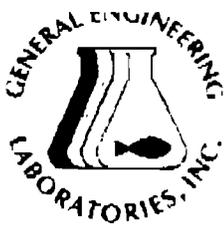
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID . 99SPORT0265-06  
 Lab ID . 9909178-06  
 Matrix Soil  
 Date Collected . 09/07/99  
 Date Received . 09/07/99  
 Priority . Rush  
 Collector . Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		43.6	0.146	0.241	mg/kg	5.0	JSS	09/08/99	2001	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1330 157866 2

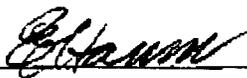
M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**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.

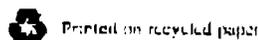
This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Elise Hanson at 843-556-8171

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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date September 09, 1999

Page 1 of 1

Sample ID : 99SPORT0265-07  
 Lab ID : 9909178-07  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2.70	0.143	0.236	mg/kg	5.0	JSS	09/08/99	2008	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID : 99SPORT0265-08  
 Lab ID : 9909178-08  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		188	0.143	0.236	mg/kg	5.0	JSS	09/08/99	1330	157866	2

**The following prep procedures were performed:**

ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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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Report Date: September 09, 1999

Page 1 of 1

Sample ID: 99SPORT0265-09  
 Lab ID: 9909178-09  
 Matrix: Soil  
 Date Collected: 09/07/99  
 Date Received: 09/07/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		47.8	0.142	0.234	mg/kg	5.0	JSS	09/08/99	2022	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	EPA 3050

**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.

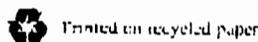
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cc: NPWC00197

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Page 1 of 1

Sample ID : 99SPORT0265-10  
 Lab ID : 9909178-10  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		291	0.141	0.232	mg/kg	5.0	JSS	09/08/99	2046	157866	1

**The following prep procedures were performed:**

ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

Page 1 of 1

Sample ID: 99SPORT0265-11  
 Lab ID: 9909178-11  
 Matrix: Soil  
 Date Collected: 09/07/99  
 Date Received: 09/07/99  
 Priority: Rush  
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		299	0.144	0.238	mg/kg	5.0	JSS	09/08/99	2052	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1350 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

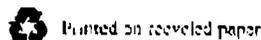
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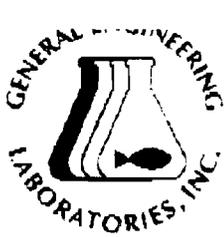
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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 09, 1999

Page 1 of 1

Sample ID : 99SPORT0265-12  
 Lab ID : 9909178-12  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		36100	14.6	24.1	mg/kg	S00	JSS	09/08/99	2246	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

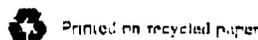
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

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Sample ID : 99SPORT0265-13  
 Lab ID : 9909178-13  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		206	0.139	0.230	mg/kg	50	JSS	09/08/99	2104	157866	1

The following prep procedures were performed:

ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

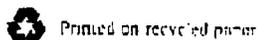
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 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 09, 1999

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Sample ID : 99SPORT0265-14  
 Lab ID : 9909178-14  
 Matrix : Soil  
 Date Collected : 09/07/99  
 Date Received : 09/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		70.5	0.139	0.230	mg/kg	50	JSS	09/08/99	2111	157866	1

The following prep procedures were performed:  
 ICP Mass Spec

FGD 09/08/99 1330 157866 2

M = Method	Method-Description
M 1	SW 846 6020
M 2	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.

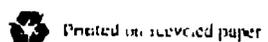
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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-1  
 Lab ID : 9912175-01  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		10.2	0.151	0.481	mg/kg	2.0	MBL	12/10/99	1205	164716	1

**The following prep procedures were performed:**

TRACE AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	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.

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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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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-2  
 Lab ID : 9912175-02  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		29.4	0.147	0.467	mg/kg	2.0	MBL	12/10/99	1211	164716	1

The following prep procedures were performed:  
 TRACE

AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	EPA 3050

#### 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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 in accordance with General Engineering Laboratories  
 standard operating procedures. Please direct  
 any questions to your Project Manager, Elise Hanson at 843-556-8171.

Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-3  
 Lab ID : 9912175-03  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		52.1	0.151	0.481	mg/kg	2.0	MBL	12/10/99	1217	164716	1

**The following prep procedures were performed:**

TRACE AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	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.

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, Elise Hanson at 843-556-8171.

Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-4  
 Lab ID : 9912175-04  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8.39	0.155	0.495	mg/kg	2.0	MBL	12/10/99	1223	164716	1

**The following prep procedures were performed:**

TRACE AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	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).

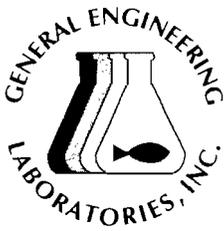
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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, Elise Hanson at 843-556-8171.

  
 \_\_\_\_\_  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-5  
 Lab ID : 9912175-05  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		8.51	0.155	0.495	mg/kg	2.0	MBL	12/10/99	1229	164716	1

### The following prep procedures were performed:

TRACE

AJM 12/08/99 1500 164716 2

### M = Method

### Method-Description

M 1 EPA 6010B  
 M 2 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.

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, Elise Hanson at 843-556-8171.

\_\_\_\_\_  
*E. Hanson*  
 Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-6  
 Lab ID : 9912175-06  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		55.7	0.149	0.476	mg/kg	2.0	MBL	12/10/99	1235	164716	1

**The following prep procedures were performed:**

TRACE AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	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).

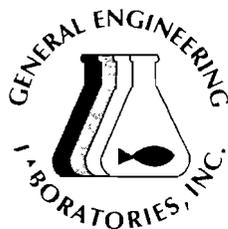
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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

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, Elise Hanson at 843-556-8171.

Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-7  
 Lab ID : 9912175-07  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		2.69	0.149	0.476	mg/kg	2.0	MBL	12/10/99	1242	164716	1

**The following prep procedures were performed:**

TRACE AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	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.

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, Elise Hanson at 843-556-8171.

Reviewed By





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
NJ	79002	79002
SC	10120	10582
TN	02934	02934

Client: Environmental Enterprise Group of SCRA  
 1899 North Hobson Avenue  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

cc: NPWC00197

Report Date: December 13, 1999

Page 1 of 1

Sample ID : 99EEG0010-8  
 Lab ID : 9912175-08  
 Matrix : Soil  
 Date Collected : 12/07/99  
 Date Received : 12/07/99  
 Priority : Rush  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Metals Analysis</b>											
Lead		28.9	0.151	0.481	mg/kg	2.0	MBL	12/10/99	1307	164716	1

**The following prep procedures were performed:**

TRACE AJM 12/08/99 1500 164716 2

M = Method	Method-Description
M 1	EPA 6010B
M 2	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.

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, Elise Hanson at 843-556-8171.

  
 Reviewed By



QC Summary Report

cc: NPWC00197

Lab. Sample ID: 9912175%

Report Date: December 13, 1999

Page 1 of 1

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
<b>Metals Analysis</b>													
QC673445	BLANK	164716											
Lead						112	ug/kg					MBL 12/10/99	1151
QC673446	LCS	164716											
Lead			56600			58100	ug/kg		103	(80.4 - 117.)		MBL 12/10/99	1157
QC673448	9912175-08MS	164716											
Lead			25000	28900		130000	ug/kg		405**	(70.6 - 123.)		MBL 12/10/99	1319
QC673449	9912175-08MSD	164716											
Lead			25000	28900		142000	ug/kg	11.5	454	(0.00 - 20.3)		MBL 12/10/99	1325
QC673447	9912175-08SERIAL	164716											
Lead				28900		31600	ug/kg	9.00				MBL 12/10/99	1313

Notes:

The qualifiers in this report are defined as follows:

ˆ indicates presence of analyte < RL (Report Limit)

∫ indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when  
sample concentration exceeds spike conc by a factor of 4 or more



## APPENDIX D



# South Carolina Department of Health and Environmental Control

9243HH01

Bureau of Solid & Hazardous Waste Mgt.  
2600 Bull Street, Columbia, SC 29201  
Phone: (803) 896-4000  
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 9-30-99

## FORM HAZARDOUS WASTE MANIFEST

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

Manifest Document No. 402

Page 1 of

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

30641  
13739

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. U.S. EPA ID Number

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address

10. U.S. EPA ID Number

A. State Manifest Document Number  
B. State Generator ID  
C. State Transporter ID  
D. Hazardous Waste ID  
E. State Facility ID  
F. Facility Name  
G. State Facility 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

15. Waste Number

a.   
 b.   
 c.   
 331

GENERATOR

16. Additional Information for the Generator (HAZARDOUS WASTE ONLY)

17. Additional Codes for Wastes Listed Above

a.   
 b.   
 c.   
 d.

15. Special Handling Instructions and Additional Information

ERS JOB # 3064

BILL TO: EPS  
TRAILER #445

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

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

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

Printed/Typed Name

Signature

Month Day Year

WILLIAM F LACHICOTTE III

*William F Lachicotte III*

10/31/99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

HAROLD JACKSON

*Harold Jackson*

10/31/99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Discrepancy Indication Space

a. 33000 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

Jan Justice

*Jan Justice*

09/01/99

HAZARDOUS WASTE FACILITY



# South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.  
2600 Bull Street, Columbia, SC 29201  
Phone: (803) 896-4000  
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 9-30-99

## FORM HAZARDOUS WASTE MANIFEST

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

Manifest Document No. **30642**

2. Page 1 of

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

3. Generator's Name and Mailing Address

HM 13741

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. U.S. EPA ID Number

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address

10. U.S. EPA ID Number

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

15. Waste Number

a.

b.

c.

15. Special Handling Instructions and Additional Information

ERS JOB # 3064

BILL TO: ERS

CM-25-0453-RODLOFF

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

Signature

Month Day Year

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

Discrepancy Indication Space

a. 27800 lbs c. lbs  
b. 236100 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

A. Anderson

David Anderson

GENERATOR

TRANSPORTER

FACILITY



Box 6113  
1539

# South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.  
2600 Bull Street, Columbia, SC 29201  
Phone: (803) 896-4000  
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 9-30-99

## FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. 30643 Manifest Document No. 13742 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 <u>13742</u>		A. State Manifest Document Number	
4. Generator's Phone		B. State Generator ID	
5. Transporter 1 Company Name	6. U.S. EPA ID Number	C. State Transporter ID	
7. Transporter 2 Company Name	8. U.S. EPA ID Number	D. Transporter Phone	
9. Designated Facility Name and Site Address		E. State Transporter ID	
10. U.S. EPA ID Number		F. Transporter Name	
		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		13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
	No.	Type			
a.					
b.					
c.					
d.					

K. Handling Codes for Wastes Listed Above			
a.	b.	c.	d.

15. Special Handling Instructions and Additional Information  
ERS JOB # 3064 BILL TO: ERS  
CM 6113 ROUTE  
A.H.

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: Bill To: ERS Signature: Bill To: ERS Month: 10 Day: 14 Year: 1997

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name: Stanley Farvain Signature: Stanley Farvain Month: 10 Day: 14 Year: 1997

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

Discrepancy Indication Space  
238118  
 a. 28760 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: Anderson Signature: Anderson 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) 896-4000  
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-

**UNIFORM HAZARDOUS WASTE MANIFEST** 1. Generator's U.S. EPA ID No. SC 010022560 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  
SOUTHDIIVNAFACENCOM, Caretaker Site Office, Rt 1 Box 255, 190010, N. Charleston, SC 29419-9010  
4. Generator's Phone (843) 743-9985

5. Transporter 1 Company Name: Mills Trucking, Inc. 6. U.S. EPA ID Number: 0H0068913409  
7. Transporter 2 Company Name: 8. U.S. EPA ID Number:

9. Designated Facility Name and Site Address: Safety-Kleen (Pinewood), Inc., Rt 1 Box 255, Pinewood, South Carolina 29125  
10. U.S. EPA ID Number: SC D 07 03 7 5 9 8 5

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number): a. RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PG III (lead)

12. Containers No. Type: 0 0 1 0  
13. Total Quantity: 20  
14. Unit: Y  
15. Waste Number: 0 0 0 8

J. Additional Descriptions for Materials Listed Above

a. PW - 0 1 3 4 3 - 4 1 1 4  
b. - - - - -  
c. - - - - -  
d. - - - - -

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information  
ERS JOB # 3064  
Bill to: ERS  
WO# CM-ROLL-OFF 2138  
24 hour emergency contact: Rick Nielson or Gary Crawford (843) 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 at 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: 09 02 94

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name: John Bangle Signature: John Bangle Month Day Year: 09 02 94

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

Discrepancy Indication Space

a. 18960 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: Industrial Waste Justice Signature: [Signature] Month Day Year: 09 17 94

GENERATOR

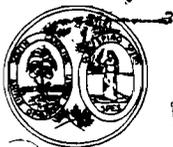
TRANSPORTER

FACILITY

61020 15

A. State Manifest Document Number  
B. State Generator's ID  
C. State Transporter's ID  
D. Transporter's Phone: 800-423-8181  
E. State Transporter's ID  
F. Transporter's Phone  
G. State Facility's ID  
H. Facility's Phone: 803-452-5003

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



# South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.  
2600 Bull Street, Columbia, SC 29201  
Phone: (803) 896-4000  
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 9-30-99

## FORM HAZARDOUS WASTE MANIFEST

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

Manifest Document No. **30645**

2. Page 1 of

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

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. U.S. EPA ID Number

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address

10. U.S. EPA ID Number

11. U.S. DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

15. Waste Number

GENERATOR

16. Additional Designations for Materials

17. Shipping Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

ERS JOB # 3064

BILL TO JEFF  
CM 200-6000

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

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

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

Printed/Typed Name

Signature

Month Day Year

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

Discrepancy Indication Space

a. 21160 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

HAZARDOUS WASTE

FORM 10-1-99





# South Carolina Department of Health and Environmental Control

Bureau of Solid & Hazardous Waste Mgt.  
2600 Bull Street, Columbia, SC 29201  
Phone: (803) 896-4000  
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 9-30-99

## FORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID No. \_\_\_\_\_ Manifest Document No. 13746 2. Page 1 of \_\_\_\_\_ Information in the shaded areas is not required by Federal law, but is by State law.

3. Generator's Name and Mailing Address		A. State Manifest Document Number
4. Generator's Phone ( )		B. State Generator's ID
5. Transporter 1 Company Name	6. U.S. EPA ID Number	C. State Transporter's ID
7. Transporter 2 Company Name		D. Transporter's Phone: <u>803-427-4141</u>
9. Designated Facility Name and Site Address		E. State Transporter's ID
10. U.S. EPA ID Number		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		13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
	No.	Type			
a.					
b.					
c.					

16. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above	
a.	b.	c.	d.		

15. Special Handling Instructions and Additional Information

720

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	Signature	Month	Day	Year
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17. Transporter 1 Acknowledgement of Receipt of Materials

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

Printed/Typed Name	Signature	Month	Day	Year
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Discrepancy Indication Space

a. 25100 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
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GENERATOR

TRANSPORTER

FACILITY

9355HH01

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No SC 0170022560	Manifest Document No. 13758	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address SOUTH CAROLINA FACENACOM CARETAKER SITE OFFICE P.O. Box 190010 N. CHARLESTON, SC 29419-9010				A. State Manifest Document Number			
4. Generator's Phone (843) 743 9985 - EXT 33 RICK NIELSON				B. State Generator's ID			
5. Transporter 1 Company Name WILLS TRUCKING, INC.		6. US EPA ID Number OH D 068913409		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 800-423-8181			
9. Designated Facility Name and Site Address SAFETY-KLEEN (PINWOOD) INC RT 1 Box 285 PINWOOD, SOUTH CAROLINA 29125		10. US EPA ID Number SC D070378985		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone (803) 452-5003			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
			No.	Type			
	a. <sup>HM</sup> PG HAZARDOUS WASTE SOLID, NOS., 9 NA3077 PG II (LEAD)		001	cm	20	Y	0008
	b.						
	c.						
d.							
J. Additional Descriptions for Materials Listed Above PW-01343-4114				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information ERS JOB # 3064 24 Hour EMERGENCY CONTACT: RICK NIELSON or Amy Danzell (843) 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 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 Amy Danzell		Signature Amy Danzell		Month Day Year 11/23/99			
TRANSPORTER	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							
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			



ES:PT 0002-TT-NBC  
14:33

935511101

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **SC017002256013753**  
Manifest Document No.

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**SOUTHDIV WASTE MNG, CARSTAKER SITE OFFICE**

A. State Manifest Document Number

4. Generator's Phone (743) **743-9985 Ext. 33 Rick Nielsen**

B. State Generator's ID

6. Transporter 1 Company Name **WILLS TRUCKING, INC.**

8. USEPA ID Number **OH.D.068913409**

C. State Transporter's ID  
D. Transporter's Phone **800-423-8181**

7. Transporter 2 Company Name

8. USEPA ID Number

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

8. Designated Facility Name and Site Address  
**SAFETY-KLEEN (ANSELWOOD), INC.  
RT. 1 BOX 255  
ANSELWOOD, SOUTH CAROLINA 29125**

10. USEPA ID Number **SC.D.070375985**

G. State Facility's ID  
H. Facility's Phone **(803) 462-5003**

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit (If Applicable)	15. Waste No.
	No.	Type			
a. <b>HAZARDOUS WASTE SOLID, AQS., 9, NA3077 PC III (LEAD)</b>	<b>001</b>	<b>CM</b>	<b>20</b>	<b>Y</b>	<b>DC08</b>
b.					
c.					
d.					

16. Additional Descriptions for Materials Listed Above  
**PW-01343-4114**

K. Handling Codes (For Material Class and Amount)  
**HAZARDOUS WASTE  
DEPT OF HEALTH  
& ENVIRONMENTAL CONTROL**

15. Special Handling Instructions and Additional Information  
**ERS JOB # 3064  
24 HOUR EMERGENCY CONTACT: RICK NIELSEN OR AMY DANIEL (743) 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.  
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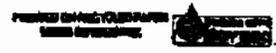
Printed/Typed Name: **Amy Daniell** Signature: *Amy Daniell* Month Day Year: **11/21/97**

17. Transporter 1 Acknowledgment of Receipt of Materials  
Printed/Typed Name: **Carl Burgess** Signature: *Carl Burgess* Month Day Year: **11/21/97**

18. Transporter 2 Acknowledgment of Receipt of Materials  
Printed/Typed Name: Signature: Month Day Year: **11/21/97**

19. Discrepancy Indication Space  
**Ja. PW-01343-1102 A. 32380 LBS.  
2419608**

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.  
Printed/Typed Name: **A. Anderson** Signature: *A. Anderson* Month Day Year: **11/21/97**





**APPENDIX E**



AOC 684 HEAVY VEGETATION REMOVAL



AOC 684 BERM AFTER VEGETATION REMOVAL



AOC 684 BERM REMOVED AND SITE GRADED



AOC 684 SAMPLED AND SURVEYED



AOC 684 EXCAVATION OF SAMPLE LOCATION 99SPORT0265-12



AOC 684 EXCAVATION COMPLETE AT 99SPORT0265-12