



U.S. Army Corps  
of Engineers  
Savannah District

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U.S. ARMY CORPS OF ENGINEERS  
ENVIRONMENTAL & MATERIALS UNIT  
200 NORTH COBB PARKWAY  
BUILDING 400, SUITE 404  
MARIETTA, GA 30062

# **ASBESTOS SURVEY REPORT**

**BUILDING NO. 8677, QUONSET HUT  
HUNTER ARMY AIR FIELD, GEORGIA**



**ASBESTOS INSPECTION REPORT  
BUILDING NO. 8677, QUONSET HUT  
HUNTER ARMY AIR FIELD, GEORGIA**

**INTRODUCTION**

1. This report documents the asbestos inspection and survey of Building 8677 at the Sabre Hall Complex at Hunter Army Air Field; Georgia conducted 26 July 2002 by USACE Savannah District employees Tim Jones and Jack Ford. The survey was conducted in general accordance with the regulatory guidelines in the Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763 Subpart E Sections 763.80-763.88) and "Guidance for Controlling Asbestos-Containing Materials in Buildings" (Purple Book) (EPA publication number 560/5-85-024). Although not required by the AHERA guidelines, roof and other exterior miscellaneous materials were inspected.
2. Building 8677 was built in an unknown time frame and is of typical all steel Quonset hut construction with a bare concrete floor slab.
3. Building 8677 was visually inspected for suspected Asbestos Containing Materials (ACM) by an accredited inspector. No bulk samples were taken for asbestos analysis, as no suspected ACM were located. This report details ACM as identified at the time of inspection only.

**SUMMARY**

4. A thorough inspection of Building 8677 turned up no suspect asbestos containing materials.

Prepared by: \_\_\_\_\_  
TIMOTHY A. JONES



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MARIETTA, GA 30062

# **HAZARDOUS BUILDING** **MATERIALS SURVEY REPORT**

**BUILDING NO. 8677, QUONSET HUT  
HUNTER ARMY AIR FIELD, GEORGIA**



**HAZARDOUS BUILDING MATERIALS REPORT  
HUNTER ARMY AIR FIELD, GEORGIA  
BUILDING 8677, QUONSET HUT**

**INTRODUCTION**

1. This report documents the hazardous building materials survey of Building No. 8677 at Hunter Army Air Field; Georgia conducted on 26 July 2002 by USACE Savannah District employees Tim Jones and Jack Ford. This survey was conducted in general accordance with the Statement of Services developed by Ray Willingham, USACE Savannah District, which includes the USAEHA guidance for demolition debris characterization by TCLP sampling.
2. The survey consists of a count of florescent and metal halide lights, a search for mercury containing equipment, a search for lead building components, a search for evidence of past or present underground storage tanks and a search for any other hazardous building materials excluding asbestos. The report also documents results of composite sampling of building materials for demolition debris characterization by analysis of TCLP lead.
3. Building 8677 was built in an unknown time frame and is of typical all steel Quonset hut construction with a bare concrete floor slab. Due to the construction of the building, the TCLP sampling was performed in general accordance with composite sample estimated percentages for Metal structures in the USAEHA guidance. Since the building is only steel and concrete construction the components for TCLP analysis were adjusted to reflect building construction. These adjustments are indicated in Table 2. No physical sampling of other hazardous components was performed, only a visual counting was performed.
4. The sampled components for identification of TCLP lead, in their proper percentages, were analyzed by Hygeia Laboratories using EPA methods 1311 for extraction followed by 6010B analysis. Hygeia's analytical report is included in Appendix 1.

## SUMMARY

5. The florescent light count results are presented in Table 1.
6. Sampling of building components was performed as required and components were processed and mixed in the proper percentages and given a sample identification of B8677 TCLP. TCLP analysis by Hygeia Laboratories indicates that lead is not present above the regulatory limit of 5mg/L. Field sampling data including component type, color, TCLP mix percentage and approximate sampling location is presented in Table 2. Approximate locations of material sub-samples are indicated in the floor plan.
7. No mercury containing switches or thermostats were located in Building 8677.
8. No lead building components were located.
9. No other hazardous building materials were located in Building 8677.

Prepared by: \_\_\_\_\_  
TIMOTHY A. JONES

# Tables

**TABLE 1**  
**HUNTER ARMY AIR FIELD, BLDG. 8677**  
**FLORESCENT LIGHT FIXTURES**

| AREA IDENTIFICATION | # & TYPE LIGHTS PRESENT | DESCRIPTION OF LIGHTS                   |
|---------------------|-------------------------|---|
| Interior            | 24                      | 4 foot long, 2 bulb florescent fixtures |
| Exterior Interior   | 2                       | 1 foot square exit light fixtures       |

**TABLE 2**  
**HUNTER ARMY AIR FIELD, BLDG. 8677**  
**TCLP COMPOSITE SAMPLE COMPONENTS**

| BUILDING COMPONENT       | DESCRIPTION            | LOCATION | PERCENTAGE OF SAMPLE |
|--------------------------|------------------------|----------|----------------------|
| Unpainted Wood           | Steel wall substituted | Exterior | 7%                   |
| Interior wall covering   | Steel wall substituted | Exterior | 40%                  |
| Roofing Components       | Steel wall substituted | Exterior | 7%                   |
| Interior Floor Coverings | Unpainted concrete     | Interior | 12%                  |
| Block, Brick, Concrete   | Unpainted concrete     | Interior | 7%                   |
| Ceiling Material         | Steel wall substituted | Exterior | 25%                  |
| Painted Wood-Interior    | Steel wall substituted | Exterior | 1%                   |
| Painted Wood-Exterior    | Steel wall substituted | Exterior | 1%                   |

**Floor Plan  
And  
Sampling Locations  
(See Contract Drawings)**

# Appendix 1



# HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. **M0207246** Report Date: 8/01/02 1 of 5

Client Name: **US Army Corp of Engineers - Atlanta**  
 Contact: **Tim Jones**  
 Address: **Environmental & Materials Unit**  
 200 North Cobb Parkway  
 Bldg. 400, Ste. 404  
 Marietta, GA 30062

Project Name: **Hunter AAF - Sabre Hall Complex**  
 Project ID: **7571**  
 Receipt Date: **7/29/2002**

### Case Narrative

1. The sample holding times were met for all analyses.
2. Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
3. The temperature of the sample cooler as received by the laboratory was room temperature.

Approved By: AW5

Respectively Submitted:

Kandy Brown  
 Hygeia Laboratories, Inc.

### Sample Identification

| <u>Lab Sample #</u> | <u>Client Sample ID</u> | <u>Sample Supply</u> | <u>Collected</u> |
|---------------------|-------------------------|----------------------|------------------|
| M0207246-01         | B8672 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-02         | B8658 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-03         | B8659 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-04         | Guard Shocks TCLP       | Bulk                 | 7/28/2002        |
| M0207246-05         | B8675 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-06         | B8676 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-07         | B8677 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-08         | B8658-1-S               | Other                | 7/28/2002        |
| M0207246-09         | B8659-1-S               | Other                | 7/28/2002        |

**Lab Project No.** M0207246

Report Date: 8/01/02 2 of 5

|                  |                  |                      |                          |
|------------------|------------------|----------------------|--------------------------|
| <b>Lead</b>      | CAS #: 7439-92-1 | Units: mg/L (ppm)    | Method #: EPA_1311/7420A |
| Matrix: Leachate |                  | Prep Date: 7/29/2002 | Analyst: SR              |

| Lab Project # | Client ID:        | Result | Report Limit | Flag Code |
|---------------|-------------------|--------|--------------|-----------|
| M0207246-01   | B8672 TCLP        | BRL    | 0.5          |           |
| M0207246-02   | B8658 TCLP        | BRL    | 0.5          |           |
| M0207246-03   | B8659 TCLP        | BRL    | 0.5          |           |
| M0207246-04   | Guard Shocks TCLP | BRL    | 0.5          |           |
| M0207246-05   | B8675 TCLP        | BRL    | 0.5          |           |
| M0207246-06   | B8676 TCLP        | BRL    | 0.5          |           |
| M0207246-07   | B8677 TCLP        | BRL    | 0.5          |           |

|                     |                  |                             |                          |
|---------------------|------------------|-----------------------------|--------------------------|
| <b>Total Lead</b>   | CAS #: 7439-92-1 | Units: Percent by Weight(%) | Method #: EPA_7420A(MOD) |
| Matrix: Paint Chips |                  | Prep Date: 7/29/2002        | Analyst: SR              |

| Lab Project # | Client ID: | Result | Report Limit | Flag Code |
|---------------|------------|--------|--------------|-----------|
| M0207246-08   | B8658-1-S  | 0.17   | 0.01         |           |
| M0207246-09   | B8659-1-S  | 0.11   | 0.01         |           |

Lab Project No. **M0207246**

Report Date: 8/01/02 3 of 5

BatchID: H020730030  
 Department: Metals  
 Prep Method: EPA\_1311/7420A  
 Analysis Method: EPA\_1311/7420A

Prep Analyst: JL/MR/AE  
 Prep Date: 7/29/02 15:12  
 Analyst: SR  
 Analysis Date: 7/30/02 16:10

| <b>M0207246-05A</b>     |        |               |            |            |            |            |            |  |
|-------------------------|--------|---------------|------------|------------|------------|------------|------------|--|
| AnalyteName             | Result | Unit          |            |            |            |            |            |  |
| Lead                    | 0.075  | mg/L (ppm)    |            |            |            |            |            |  |
| <b>H020730030-MB</b>    |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Unit          | RDL        |            |            |            |            |  |
| Lead                    | 0      | mg/L (ppm)    | 0.500      |            |            |            |            |  |
| <b>H020730030-LCS</b>   |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Unit          | %Recovery  | Ctl Limits |            |            |            |  |
| Lead                    | 0.990  | mg/L (ppm)    | 99         | 80 - 120   |            |            |            |  |
| <b>H020730030-LCSD</b>  |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Unit          | %Recovery  | Ctl Limits | RPD        | RPD Limits |            |  |
| Lead                    | 0.904  | mg/L (ppm)    | 90         | 80 - 120   | 9.08       | 0 - 20     |            |  |
| <b>M0207246-05A-DUP</b> |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Parent Result | Unit       |            |            | RPD        | RPD Limits |  |
| Lead                    | 0.0660 | BRL           | mg/L (ppm) |            |            | 12.77      | 0 - 20     |  |
| <b>M0207246-05A-MS</b>  |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Parent Result | Unit       | %Recovery  | Ctl Limits |            |            |  |
| Lead                    | 1.08   | BRL           | mg/L (ppm) | 101        | 75 - 125   |            |            |  |
| <b>M0207246-05A-MSD</b> |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Parent Result | Unit       | %Recovery  | Ctl Limits | RPD        | RPD Limits |  |
| Lead                    | 1.06   | BRL           | mg/L (ppm) | 99         | 75 - 125   | 1.87       | 0 - 20     |  |

Lab Project No. **M0207246**

Report Date: 8/01/02 4 of 5

BatchID: H020730031

Prep Analyst: MR/JL

Department: Metals

Prep Date: 7/29/02 16:45

Prep Method: EPA\_7420A(MOD)

Analyst: SR

Analysis Method: EPA\_7420A(MOD)

Analysis Date: 7/30/02 16:27

| H020730031-MB   |         |      |           |            |      |            |  |
|-----------------|---------|------|-----------|------------|------|------------|--|
| AnalyteName     | Result  | Unit | RDL       |            |      |            |  |
| Total Lead      | 0       | %    | 0.01000   |            |      |            |  |
| H020730031-LCS  |         |      |           |            |      |            |  |
| AnalyteName     | Result  | Unit | %Recovery | Cti Limits |      |            |  |
| Total Lead      | 0.65530 | %    | 89        | 80 - 120   |      |            |  |
| H020730031-LCSD |         |      |           |            |      |            |  |
| AnalyteName     | Result  | Unit | %Recovery | Cti Limits | RPD  | RPD Limits |  |
| Total Lead      | 0.65240 | %    | 88        | 80 - 120   | 0.44 | 0 - 20     |  |



Lab Project No. **M0207246**

Report Date: 8/01/02 5 of 5

**Notes:**

- Results relate only to the samples tested as received (See Chain-of-Custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

**Certifications**

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware - GA040; Georgia - No. 804; Indiana - Lab ID C-GA-01  
Kentucky - Lab ID 90053, UST - No. 0005; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040; North Carolina - No. 409  
Rhode Island, License No. 245; South Carolina - No. 98012001; Tennessee - Lab ID 02827; Virginia - Lab ID 00024  
South Carolina - No. 98012; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 0024

**Accreditations**

American Association for Laboratory Accreditation, A2LA - No. 330.01;  
American Industrial Hygiene Association, AIHA - Lab ID 100649; NELAC - State of Florida DOH, No. E87257

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US Army Corps of Engineers  
Savannah District  
Environmental & Materials Unit

Chain of Custody Record

M0Z07246

| Project Name   |      | Job # |    | Site Code/Sample Number |              | No. of Containers |   | TCLP |  | % Lead |  | LAB # |       | TAT      |     | Matrix             |        |
|--|------|-------|----|-------------------------|--------------|-------------------|---|------|--|--------|--|-------|-------|----------|-----|--------------------|--------|
| Date   | Time | Pres. | Gr | Cm                      | Site Code    | Sample Number     |   |      |  |        |  |       | LAB # | SAID No. | TAT |                    | Matrix |
| Hunter AAF - Sabre Hall Complex<br>Sampler: Tim Jones<br>Job #: 7571   |      |       |    |                         |              |                   |   |      |  |        |  |       |       |          |     |                    |        |
| 7-28-02  | 1455 |       |    | ✓                       | B 8672       | TCLP              | 1 | ✓    |  |        |  | 1A    | 44149 | 48 hrs   |     | Building Composite |        |
|  | 1535 |       |    | ✓                       | B 8658       | TCLP              | 1 | ✓    |  |        |  | 2A    | 44150 |          |     |                    |        |
|  | 1610 |       |    | ✓                       | B 8659       | TCLP              | 1 | ✓    |  |        |  | 3A    | 44151 |          |     |                    |        |
|  | 1645 |       |    | ✓                       | Guard Shocks | TCLP              | 1 | ✓    |  |        |  | 4A    | 44152 |          |     |                    |        |
|  | 1700 |       |    | ✓                       | B 8675       | TCLP              | 1 | ✓    |  |        |  | 5A    | 44153 |          |     |                    |        |
|  | 1713 |       |    | ✓                       | B 8676       | TCLP              | 1 | ✓    |  |        |  | 6A    | 44154 |          |     |                    |        |
|  | 1725 |       |    | ✓                       | B 8677       | TCLP              | 1 | ✓    |  |        |  | 7A    | 44155 |          |     | Paint              |        |
|  | 1545 | ✓     |    |                         | B 8658       | -1-S              | 1 |      |  | ✓      |  | 8A    | 44156 |          |     | scrape             |        |
|  | 1615 | ✓     |    |                         | B 8659       | -1-S              | 1 |      |  | ✓      |  | 9A    | 44157 |          |     |                    |        |
| Received by: (sig) <i>Randy Brown</i> Date/Time: 7-29-02 10:05<br>Received by: (sig) Date/Time: 7/29/02 10:05<br>Received by: (sig) Date/Time: |      |       |    |                         |              |                   |   |      |  |        |  |       |       |          |     |                    |        |
| Remarks: Fax results ASAP To Tim Jones 678-354-0330  |      |       |    |                         |              |                   |   |      |  |        |  |       |       |          |     |                    |        |



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MARIETTA, GA 30062

# ASBESTOS SURVEY REPORT

## GUARD SHACKS AT SABRE HALL COMPLEX HUNTER ARMY AIR FIELD, GEORGIA



**WOODEN GUARD SHACK**

**BLOCK GUARD SHACK**

**ASBESTOS INSPECTION REPORT  
HUNTER ARMY AIR FIELD, GEORGIA  
SABRE HALL COMPLEX GUARD SHACKS**

**INTRODUCTION**

1. This report documents the asbestos inspection and survey of the guard shacks at the Sabre Hall Complex at Hunter Army Air Field; Georgia conducted 25 July 2002 by USACE Savannah District employees Tim Jones and Jack Ford. The survey was conducted in general accordance with the regulatory guidelines in the Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763 Subpart E Sections 763.80-763.88) and “Guidance for Controlling Asbestos-Containing Materials in Buildings” (Purple Book) (EPA publication number 560/5-85-024). Although not required by the AHERA guidelines, roof and other exterior miscellaneous materials were inspected and sampled.
2. The buildings were built in the 1940s time frame with one being of wood frame construction with a shingle roof and the other being of concrete masonry block construction with a concrete slab roof deck covered with tar and felt built up roofing.
3. The guard shacks were visually inspected for suspected Asbestos Containing Materials (ACM) by an accredited inspector. Bulk samples of all suspected ACM’s were collected. This report details ACM as identified at the time of inspection only.
4. The bulk samples were analyzed by Hygeia Laboratories, Inc. Hygeia is accredited by the National Voluntary Laboratory Accredited Program (NVLAP Accreditation sponsored by the National Institute of Standards and Technology (NIST)). The samples were analyzed by the accepted method of polarized light microscopy (PLM) using EPA’s “Method for the Determination of Asbestos in Bulk Building Materials”, EPA/600/R-93/116. Hygeia’s analytical report is included in Appendix 1 and their NVLAP accreditation is in the Certifications section.
5. In compliance with the AHERA regulations, material is considered an Asbestos Containing Material when it contains greater than one percent asbestos. Likewise, in this report, any material containing concentrations greater than 1 percent asbestos will be considered “positive”. A narrative discussion of the AHERA ACM types (i.e., thermal systems insulation, miscellaneous and surfacing materials) found in the Guard Shacks is included in this report when relevant. Bulk sample information appears on Table 1. Estimated quantities of individual asbestos containing materials appear on Table 2. Material characterization of samples identified as asbestos containing appears as Table 3.

The specific location where each sample was obtained is shown on building floor plans, which appear as Plates. Positive ACM samples are highlighted on the floor plan Plates and, where possible, locations of similar positive ACM are identified. It is reasonable to assume that all materials similar to those testing positive also contain positive amounts of asbestos and should be treated as such.

## DISCUSSION

6. **Thermal Systems Insulation (TSI)** – TSI is insulation material applied to pipes, fittings, boilers, tanks, ducts, or to other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes

No suspect TSI was located in either building.

7. **Miscellaneous Materials** – Miscellaneous materials include building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and do not include surfacing or TSI.

In the past, there were a great number of miscellaneous building materials that had asbestos fibers added to them during the manufacturing process to increase durability and fireproofing qualities. The following suspect miscellaneous materials were sampled at the Guard Shacks and found to contain asbestos.

Roofing Materials – (Refer to Tables 1-3 and Plate 1 for specific information and sample locations).

The roof shingles on the wooden Guard Shack contain asbestos.

8. **Surfacing** – Surfacing material is friable material that is sprayed on, troweled on, or otherwise applied to surfaces for decorative or other purposes.

No suspect surfacing materials were identified.

## Summary

In summary, the following materials in the Guard Shacks were found to contain asbestos:

Roof shingles on the wooden Guard Shack contain asbestos.

Prepared by: \_\_\_\_\_  
TIMOTHY A. JONES

# Tables

**Table 1** Suspect ACM Samples

**Table 2** ACM Quantity Summary

**Table 3** Material Characterization and Assessment

**TABLE 1  
SUSPECT ACM SAMPLES  
SABRE HALL COMPLEX GUARD SHACKS**

| <b>FIELD ID</b> | <b>DESCRIPTION</b>           | <b>LOCATION</b>                   | <b>ASBESTOS TYPE &amp; %</b> |
|-----------------|------------------------------|-----------------------------------|------------------------------|
| <b>WGS-R-1</b>  | <b>Roof shingle</b>          | <b>Roof of wooden guard shack</b> | <b>3% chrysotile</b>         |
| WGS-R-2         | Roof felt                    | Roof of wooden guard shack        | None                         |
| WGS-1-3         | 12" X 12" black floor tile   | Wood guard shack                  | None                         |
| BGS-R-1         | Multi-layer built up roofing | Block guard shack roof            | None                         |

Samples testing positive for asbestos in **BOLD** type

**TABLE 2  
ACM QUANTITY SUMMARY  
SABRE HALL COMPLEX GUARD SHACKS**

| Material Descriptions | Units | Area Descriptions             |  |  |  |  |  |  | Total |
|-----------------------|-------|-------------------------------|--|--|--|--|--|--|-------|
|                       |       | ROOF OF WOODEN<br>GUARD SHACK |  |  |  |  |  |  |       |
| Roof Shingles         | S.F.  | 75                            |  |  |  |  |  |  | 75    |

S.F. = Square Foot, L.F. = Linear Foot.

**TABLE 3  
MATERIAL CHARACTERIZATION AND ASSESSMENT  
SABRE HALL COMPLEX GUARD SHACKS**

| MATERIAL      |              | CHARACTERISTICS            |                      |                           | ASSESSMENT |                       |
|---------------|--------------|----------------------------|----------------------|---------------------------|------------|-----------------------|
| Type          | Description  | Asbestos<br>Yes/no/assumed | Quantity<br>(If ACM) | Friable / Non-<br>friable | Condition  | Disturbance Potential |
| Miscellaneous | Roof shingle | Yes 3% chrysotile          | 75 S.F.              | Friable                   | Damaged    | Low                   |

# **PLATES**

**(See Contract Drawings)**

# Appendix 1



# HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

US Army Corp of Engineers  
Environmental & Materials Unit  
200 North Cobb Parkway  
Bldg. 400, Ste. 404  
Marietta, GA 30062

7/30/2002

Subject:

Hygeia Project Number: A0207068  
Client Project Number/Name: Job # 7569 /Hunter AAF Guard Shacks

Dear Mr. Tim Jones:

Enclosed are the analytical results of bulk samples submitted by you to this laboratory on 7/29/2002. All analyses were performed by polarized light microscopy (PLM) in accordance with the EPA method as defined in Perkins and Harvey, July 1993, "Methods for the Determination of Asbestos in Bulk Materials" 61pp. (EPA/600/R-93/116). The reported percentages are volume estimates obtained by calibrated visual estimation. The results in this report apply only to the items tested.

The EPA defines an asbestos containing material (ACM) as a material that is reported to contain greater than one percent asbestos. HYGEIA is only responsible for the accuracy of the analytical results provided in this report and cannot be held responsible for the errors resulting from improper sample collection techniques. This report may not be used to claim product endorsement by NVLAP or any other U.S. Government agency.

For nonhomogeneous samples, each layer was analyzed separately and the results combined to form the reported value except where otherwise noted. Vinyl floor tile samples with negative results by PLM should be submitted for confirmation by transmission electron microscopy (TEM). Friable samples containing less than 10% asbestos as determined by PLM may be resubmitted for point counting at your discretion.

Thank you for using our analytical services. HYGEIA Laboratories has been NVLAP accredited since 1988. Our current NVLAP code is 102087-0. We will keep a copy of this report on file for three years. We will dispose of your samples in 60 days unless you request that we return them. This report may be reproduced only in its entirety with the consent of Hygeia Laboratories, Inc. If you have any questions, please call us at (770) - 514-6933.

Sincerely,

Clayton Call  
Asbestos Laboratory Manager

NVLAP# 102087-0  
Texas Dept. of Health # 30-0232  
Commonwealth of Virginia # 3333-000210

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An ATC Group Services Inc. Company

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PLM Analysis Summary

Hygeia Laboratories Inc.  
1300 Williams Drive, Suite A  
Marietta, GA 30066  
(770) 514-6933

Hygeia Project Number: A0207068  
Client Project Number/Name: Job # 7569 / Hunter AAF Guard Shacks

Page: 1 of 1  
Analyzed: 7/29/2002 by CC

| Client #   | Hygeia #    | Sample Description |         |        |      | Asbestos Percent |      |     |     | Other Fibers |       |    | Non - Fibers |     |
|--|-------------|--------------------|---------|--------|------|------------------|------|-----|-----|--------------|-------|----|--------------|-----|
|  |             | Color              | Texture | Homog. | Chr. | Am.              | Cro. | An. | T/A | Cell.        | Glass | OF | B/F          | ONF |
| WGS-R-1  | A0207068-01 | Black              | Gummy   | No     | 3%   |                  |      |     |     | 12%          |       |    | 85%          |     |
| <b>Comment: Asbestos Detected.</b>                       |             |                    |         |        |      |                  |      |     |     |              |       |    |              |     |
| WGS-R-2  | A0207068-02 | Black              | Gummy   | Yes    |      |                  |      |     |     | 60%          |       |    | 40%          |     |
| <b>Comment: No Asbestos Detected.</b>                    |             |                    |         |        |      |                  |      |     |     |              |       |    |              |     |
| WGS-1-3  | A0207068-03 | Black              | Cons.   | Yes    |      |                  |      |     |     |              |       |    | 100%         |     |
| <b>Comment: No mastic present. No Asbestos Detected.</b> |             |                    |         |        |      |                  |      |     |     |              |       |    |              |     |
| BGS-R-1  | A0207068-04 | Black              | Gummy   | Yes    |      |                  |      |     |     | 25%          |       |    | 75%          |     |
| <b>Comment: No Asbestos Detected.</b>                    |             |                    |         |        |      |                  |      |     |     |              |       |    |              |     |

abbreviations:

Chr. = chrysotile  
Am. = amosite  
Cro. = crocidolite  
An. = anthophyllite  
T/A = tremolite/actinolite

cell = cellulose  
glass = fibrous glass  
syn = synthetic  
sty = styrene foam  
det = detected

per = perlite  
ver = vermiculite  
MF = Mineral filler  
B/F = Binder / filler  
NAD = No asbestos detected

OF = Other Fibers  
ONF = Other Non-Fibers  
Cons = Consolidated

# **Sample Chain of Custody**



# Certifications

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**The Environmental Institute**

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*Tim Jones*

---

*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA / AHERA (TSCA Title II) Approved Accreditation  
and NESHAP Regulations Training*

*Asbestos in Buildings: Inspection and Assessment*

February 10-12, 1997  
Course Date

2360  
Certificate Number

February 12, 1997  
Examination Date

February 11, 1998  
Expiration Date

*William H. Spain*  
William H. Spain - Course Director

*Rachel G. McCain*  
Rachel G. McCain - Exam Administrator



TEI - 1300 Williams Drive, Suite E - Marietta, Georgia 30066 - (770) 427-3600

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***The Environmental Institute***

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***Tim Jones***

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*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation  
and NESHAP Regulations Training*

***Asbestos in Buildings: Inspector Refresher***

***February 26, 2002***

Course Date

***7283***

Certificate Number

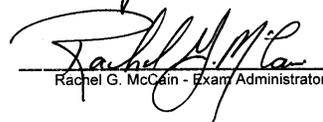
***February 26, 2002***

Examination Date

***February 25, 2003***

Expiration Date

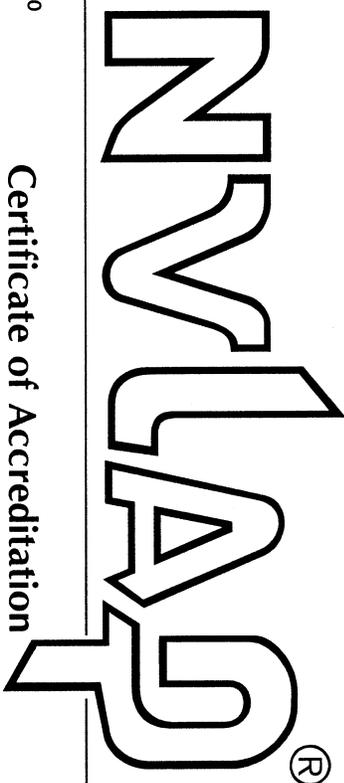
  
Thomas G. Maubenthal - Course Director

  
Rachel G. McCain - Exam Administrator



TEI - 1300 Williams Drive, Suite E - Marietta, Georgia 30066 - (770) 427-3600

United States Department of Commerce  
National Institute of Standards and Technology



ISO/IEC GUIDE 25:1990  
ISO 9002:1987

Certificate of Accreditation



**HYGELA LABORATORIES, INC.**  
MARIETTA, GA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

**BULK ASBESTOS FIBER ANALYSIS**

March 31, 2003

Effective through

*David T. Alderman*  
For the National Institute of Standards and Technology  
NVLAP Lab Code: 102087-0

National Institute  
of Standards and Technology



National Voluntary  
Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990  
ISO 9002:1987

# Scope of Accreditation



Page: 1 of 1

**BULK ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 102087-0**

**HYGEIA LABORATORIES, INC.**

1300 Williams Drive, Suite A

Marietta, GA 30066-6299

Mr. Clayton Call

Phone: 770-514-6933 Fax: 770-514-6966

E-Mail: call67@atc-enviro.com

***NVLAP Code***

***Designation***

18/A01

EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

March 31, 2003

Effective through

For the National Institute of Standards and Technology



U.S. Army Corps  
of Engineers  
Savannah District

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U.S. ARMY CORPS OF ENGINEERS  
ENVIRONMENTAL & MATERIALS UNIT  
200 NORTH COBB PARKWAY  
BUILDING 400, SUITE 404  
MARIETTA, GA 30062

# HAZARDOUS BUILDING MATERIALS SURVEY REPORT

**GUARD SHACKS AT SABRE HALL COMPLEX  
HUNTER ARMY AIR FIELD, GEORGIA**



**HAZARDOUS BUILDING MATERIALS REPORT  
HUNTER ARMY AIR FIELD, GEORGIA  
SABRE HALL COMPLEX GUARD SHACKS**

**INTRODUCTION**

1. This report documents the hazardous building materials survey of the guard shacks at the Sabre Hall Complex at Hunter Army Air Field; Georgia conducted 25 July 2002 by USACE Savannah District employees Tim Jones and Jack Ford. This survey was conducted in general accordance with the Statement of Services developed by Ray Willingham, USACE Savannah District, which includes the USAEHA guidance for demolition debris characterization by TCLP sampling.
2. The survey consists of a count of florescent and metal halide lights, a search for mercury containing equipment, a search for lead building components, a search for evidence of past or present underground storage tanks and a search for any other hazardous building materials excluding asbestos. The report also documents results of composite sampling of building materials for demolition debris characterization by analysis of TCLP lead.
3. The buildings appear to have been built in the 1940s time frame with one being of wood frame construction with a shingle roof and the other being of concrete masonry block construction with a concrete slab roof deck covered with tar and felt built up roofing. Due to the construction of the buildings, the TCLP sampling was performed in accordance with composite sample estimated percentages for Stucco/Wood/Block structures in the USAEHA guidance. No physical sampling of other hazardous components was performed, only a visual counting was performed.
4. The sampled components for identification of TCLP lead, in their proper percentages, were analyzed by Hygeia Laboratories using EPA methods 1311 for extraction followed by 6010B analysis. Hygeia's analytical report is included in Appendix 1.

## SUMMARY

5. The florescent and metal halide light count results are presented in Table 1.
6. Sampling of building components was performed as required and components were processed and mixed in the proper percentages and given a sample identification of Guard Shacks TCLP. TCLP analysis by Hygeia Laboratories indicates that lead is not present above the regulatory limit of 5mg/L. Field sampling data including component type, color, TCLP mix percentage and approximate sampling location is presented in Table 2. Approximate locations of material sub-samples are indicated on the floor plan.
7. No mercury containing thermostats or switches were located in the buildings.
8. No above or below ground fuel storage tanks were evident around the buildings.
9. No lead building components were located in the guard shacks.

Prepared by: \_\_\_\_\_  
TIMOTHY A. JONES

# Tables

**TABLE 1  
HUNTER ARMY AIR FIELD  
SABRE HALL COMPLEX GUARD SHACKS  
FLORESCENT LIGHT FIXTURES**

| <b>AREA IDENTIFICATION</b>  | <b># &amp; TYPE LIGHTS PRESENT</b> | <b>DESCRIPTION OF LIGHTS</b>           |
|-----------------------------|------------------------------------|--|
| Wooden Guard Shack Interior | 1                                  | 4 foot long, 2 bulb florescent fixture |
| Wooden Guard Shack Exterior | 1                                  | Small round fluorescent light fixture  |
| Block Guard Shack Exterior  | 1                                  | 1 foot square mercury light fixture    |

**TABLE 2  
HUNTER ARMY AIR FIELD  
SABRE HALL COMPLEX GUARD SHACKS  
TCLP COMPOSITE SAMPLE COMPONENTS**

| <b>BUILDING COMPONENT</b> | <b>DESCRIPTION</b>  | <b>LOCATION</b>      | <b>PERCENTAGE OF SAMPLE</b> |
|---------------------------|---------------------|----------------------|-----------------------------|
| Unpainted Wood            | Wall framing        | Wooden shack         | 26%                         |
| Interior wall covering    | Tan painted plywood | Wooden shack         | 23%                         |
| Roofing Components        | Roof shingle        | Wooden shack<br>Roof | 7%                          |
| Interior Floor Coverings  | Black floor tile    | Wooden shack         | 10%                         |
| Block, Brick, Concrete    | White painted block | Block shack wall     | 25%                         |
| Ceiling Material          | Tan painted plywood | Wooden shack         | 7%                          |
| Painted Wood-Interior     | Tan painted trim    | Wooden shack         | 1%                          |
| Painted Wood-Exterior     | White painted trim  | Wooden shack         | 1%                          |

**Floor Plan  
And  
Sampling Locations  
(See Contract Drawings)**



# Appendix 1



# HYGEIA LABORATORIES, INC.

1300 Williams Drive, Suite A - Marietta, Georgia 30066-6299 - (770) 514-6933, FAX (770) 514-6966

Lab Project No. **M0207246** Report Date: 8/01/02 1 of 5

Client Name: **US Army Corp of Engineers - Atlanta**  
 Contact: **Tim Jones**  
 Address: **Environmental & Materials Unit**  
 200 North Cobb Parkway  
 Bldg. 400, Ste. 404  
 Marietta, GA 30062

Project Name: **Hunter AAF - Sabre Hall Complex**  
 Project ID: **7571**  
 Receipt Date: **7/29/2002**

### Case Narrative

1. The sample holding times were met for all analyses.
2. Where applicable, results & reporting limits are based on wet weight; dry weight calculations available.
3. The temperature of the sample cooler as received by the laboratory was room temperature.

Approved By: AW5

Respectively Submitted:

Kandy Brown  
 Hygeia Laboratories, Inc.

### Sample Identification

| <u>Lab Sample #</u> | <u>Client Sample ID</u> | <u>Sample Supply</u> | <u>Collected</u> |
|---------------------|-------------------------|----------------------|------------------|
| M0207246-01         | B8672 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-02         | B8658 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-03         | B8659 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-04         | Guard Shocks TCLP       | Bulk                 | 7/28/2002        |
| M0207246-05         | B8675 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-06         | B8676 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-07         | B8677 TCLP              | Bulk                 | 7/28/2002        |
| M0207246-08         | B8658-1-S               | Other                | 7/28/2002        |
| M0207246-09         | B8659-1-S               | Other                | 7/28/2002        |

**Lab Project No.** M0207246

Report Date: 8/01/02 2 of 5

|                  |                  |                      |                          |
|------------------|------------------|----------------------|--------------------------|
| <b>Lead</b>      | CAS #: 7439-92-1 | Units: mg/L (ppm)    | Method #: EPA_1311/7420A |
| Matrix: Leachate |                  | Prep Date: 7/29/2002 | Analyst: SR              |

| Lab Project # | Client ID:        | Result | Report Limit | Flag Code |
|---------------|-------------------|--------|--------------|-----------|
| M0207246-01   | B8672 TCLP        | BRL    | 0.5          |           |
| M0207246-02   | B8658 TCLP        | BRL    | 0.5          |           |
| M0207246-03   | B8659 TCLP        | BRL    | 0.5          |           |
| M0207246-04   | Guard Shocks TCLP | BRL    | 0.5          |           |
| M0207246-05   | B8675 TCLP        | BRL    | 0.5          |           |
| M0207246-06   | B8676 TCLP        | BRL    | 0.5          |           |
| M0207246-07   | B8677 TCLP        | BRL    | 0.5          |           |

|                     |                  |                             |                          |
|---------------------|------------------|-----------------------------|--------------------------|
| <b>Total Lead</b>   | CAS #: 7439-92-1 | Units: Percent by Weight(%) | Method #: EPA_7420A(MOD) |
| Matrix: Paint Chips |                  | Prep Date: 7/29/2002        | Analyst: SR              |

| Lab Project # | Client ID: | Result | Report Limit | Flag Code |
|---------------|------------|--------|--------------|-----------|
| M0207246-08   | B8658-1-S  | 0.17   | 0.01         |           |
| M0207246-09   | B8659-1-S  | 0.11   | 0.01         |           |

Lab Project No. **M0207246**

Report Date: 8/01/02 3 of 5

BatchID: H020730030  
 Department: Metals  
 Prep Method: EPA\_1311/7420A  
 Analysis Method: EPA\_1311/7420A

Prep Analyst: JL/MR/AE  
 Prep Date: 7/29/02 15:12  
 Analyst: SR  
 Analysis Date: 7/30/02 16:10

| <b>M0207246-05A</b>     |        |               |            |            |            |            |            |  |
|-------------------------|--------|---------------|------------|------------|------------|------------|------------|--|
| AnalyteName             | Result | Unit          |            |            |            |            |            |  |
| Lead                    | 0.075  | mg/L (ppm)    |            |            |            |            |            |  |
| <b>H020730030-MB</b>    |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Unit          | RDL        |            |            |            |            |  |
| Lead                    | 0      | mg/L (ppm)    | 0.500      |            |            |            |            |  |
| <b>H020730030-LCS</b>   |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Unit          | %Recovery  | Ctl Limits |            |            |            |  |
| Lead                    | 0.990  | mg/L (ppm)    | 99         | 80 - 120   |            |            |            |  |
| <b>H020730030-LCSD</b>  |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Unit          | %Recovery  | Ctl Limits | RPD        | RPD Limits |            |  |
| Lead                    | 0.904  | mg/L (ppm)    | 90         | 80 - 120   | 9.08       | 0 - 20     |            |  |
| <b>M0207246-05A-DUP</b> |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Parent Result | Unit       |            |            | RPD        | RPD Limits |  |
| Lead                    | 0.0660 | BRL           | mg/L (ppm) |            |            | 12.77      | 0 - 20     |  |
| <b>M0207246-05A-MS</b>  |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Parent Result | Unit       | %Recovery  | Ctl Limits |            |            |  |
| Lead                    | 1.08   | BRL           | mg/L (ppm) | 101        | 75 - 125   |            |            |  |
| <b>M0207246-05A-MSD</b> |        |               |            |            |            |            |            |  |
| AnalyteName             | Result | Parent Result | Unit       | %Recovery  | Ctl Limits | RPD        | RPD Limits |  |
| Lead                    | 1.06   | BRL           | mg/L (ppm) | 99         | 75 - 125   | 1.87       | 0 - 20     |  |

**Lab Project No.** M0207246

**Report Date:** 8/01/02 4 of 5

**BatchID:** H020730031

**Prep Analyst:** MR/JL

**Department:** Metals

**Prep Date:** 7/29/02 16:45

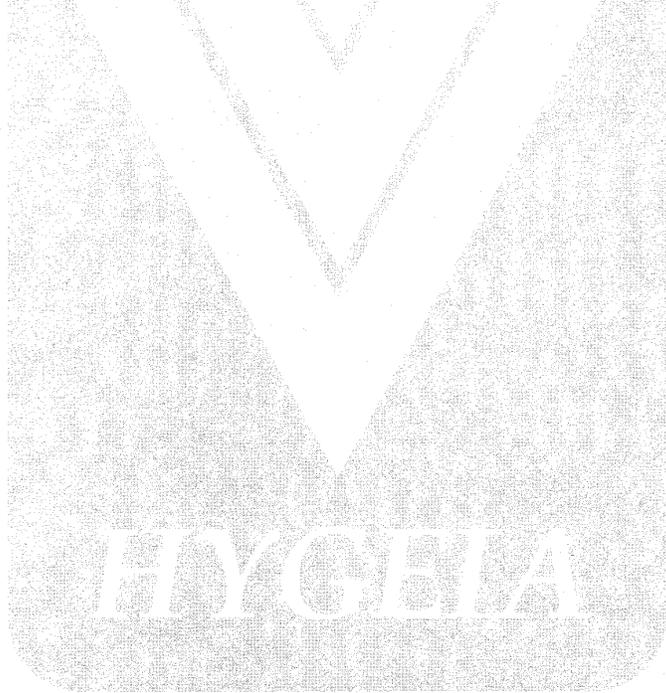
**Prep Method:** EPA\_7420A(MOD)

**Analyst:** SR

**Analysis Method:** EPA\_7420A(MOD)

**Analysis Date:** 7/30/02 16:27

| <b>H020730031-MB</b>   |         |      |           |            |      |            |  |
|------------------------|---------|------|-----------|------------|------|------------|--|
| AnalyteName            | Result  | Unit | RDL       |            |      |            |  |
| Total Lead             | 0       | %    | 0.01000   |            |      |            |  |
| <b>H020730031-LCS</b>  |         |      |           |            |      |            |  |
| AnalyteName            | Result  | Unit | %Recovery | Cti Limits |      |            |  |
| Total Lead             | 0.65530 | %    | 89        | 80 - 120   |      |            |  |
| <b>H020730031-LCSD</b> |         |      |           |            |      |            |  |
| AnalyteName            | Result  | Unit | %Recovery | Cti Limits | RPD  | RPD Limits |  |
| Total Lead             | 0.65240 | %    | 88        | 80 - 120   | 0.44 | 0 - 20     |  |



Lab Project No. **M0207246**

Report Date: 8/01/02 5 of 5

**Notes:**

- Results relate only to the samples tested as received (See Chain-of-Custody).
- BRL = "Below Reporting Limit"
- RL = "Reporting Limit"
- Dates are presented in the format "month/day/year"

**Certifications**

Alabama - Lab ID 40970; Arkansas; Connecticut - No. PH 0208; Delaware - GA040; Georgia - No. 804; Indiana - Lab ID C-GA-01  
Kentucky - Lab ID 90053, UST - No. 0005; Louisiana; Maryland - No. 293; Massachusetts No. M - GA040; North Carolina - No. 409  
Rhode Island, License No. 245; South Carolina - No. 98012001; Tennessee - Lab ID 02827; Virginia - Lab ID 00024  
South Carolina - No. 98012; Tennessee - Lab ID 02827 (DW), UST Program; Virginia - Lab ID 0024

**Accreditations**

American Association for Laboratory Accreditation, A2LA - No. 330.01;  
American Industrial Hygiene Association, AIHA - Lab ID 100649; NELAC - State of Florida DOH, No. E87257

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US Army Corps of Engineers  
Savannah District  
Environmental & Materials Unit

Chain of Custody Record

M0Z07246

| Project Name  |           | Job #     |         | Site Code/Sample Number |                         | No. of Containers |           | Matrix  |       |
|---|-----------|-----------|---------|-------------------------|-------------------------|-------------------|-----------|---------|-------|
| Date  | Time      | Pres.     | Gr      | Cm                      | Site Code/Sample Number | No. of Containers | TCLP      | % Lead  | LAB # |
| Hunter AAF - Sabre Hall Complex                     |           |           |         |                         |                         |                   |           |         |       |
| Sampler: Tim Jones                                  |           |           |         |                         |                         |                   |           |         |       |
| Job #: 7571   |           |           |         |                         |                         |                   |           |         |       |
| 7-28-02   | 1455      |           |         | ✓                       | B 8672 TCLP             | 1                 | ✓         |         | 1A    |
|   | 1535      |           |         | ✓                       | B 8658 TCLP             | 1                 | ✓         |         | 2A    |
|   | 1610      |           |         | ✓                       | B 8659 TCLP             | 1                 | ✓         |         | 3A    |
|   | 1645      |           |         | ✓                       | Guard Shocks TCLP       | 1                 | ✓         |         | 4A    |
|   | 1700      |           |         | ✓                       | B 8675 TCLP             | 1                 | ✓         |         | 5A    |
|   | 1713      |           |         | ✓                       | B 8676 TCLP             | 1                 | ✓         |         | 6A    |
|   | 1725      |           |         | ✓                       | B 8677 TCLP             | 1                 | ✓         |         | 7A    |
|   | 1545      | ✓         |         |                         | B 8658 -1-S             | 1                 |           | ✓       | 8A    |
|   | 1615      | ✓         |         |                         | B 8659-1-S              | 1                 |           | ✓       | 9A    |
| TAT 48 hrs  |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44149 Building Composite                    |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44150                                       |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44151                                       |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44152                                       |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44153                                       |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44154                                       |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44155 Paint                                 |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44156 scrape                                |           |           |         |                         |                         |                   |           |         |       |
| SAD No. 44157 ↓                                     |           |           |         |                         |                         |                   |           |         |       |
| Remarks: Fax results ASAP To Tim Jones 678-354-0330 |           |           |         |                         |                         |                   |           |         |       |
| Sampler   | Tim Jones | Date/Time | 7-29-02 | 1005                    | Received by: (sig)      | Randy Brown       | Date/Time | 7/29/02 | 10:05 |
| Relinquished by: (sig)                              |           | Date/Time |         |                         | Received by: (sig)      |                   | Date/Time |         |       |
| Relinquished by: (sig)                              |           | Date/Time |         |                         | Received by: (sig)      |                   | Date/Time |         |       |