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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: [redacted] Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: [redacted] DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for conversion of Indoor Firing Range, Aberdeen, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty sampled were collected and submitted for testing of Total Lead. Of those twenty samples, two blanks were included. All samples returned by the lab after analysis were bellow recordable levels (BRL), being the BRL 20 total.

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected, three from each surface area for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Even though no lead wipe sample was above 20 µg/ft² the areas were not sampled before application of lead encapsulating material, and a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04, the area could be used for storage only. Further, upon completion of conversion, this range is to be used only for storage as initially planned. Pregnant females or children cannot utilize this space in any capacity. No items should be stored in this space that is intended for use by children. There is no assurance that the standard for gestational females and children of less than 40 µg/ft² was met prior to the application of sealant. In addition, this range, after conversion will need to be tested yearly in order to ensure lead has not leached.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to use this area as storage, meeting the above requirements is granted.

[redacted]
Regional Industrial Hygienist

CF: NGB-ARS-IHSE
[redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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MISSISSIPPI ARMY NATIONAL GUARD
(MS ARNG)

ABERDEEN ARMY NATIONAL GUARD ARMORY
INDOOR FIRING RANGE
809 HIGHWAY 145 NORTH
ABERDEEN, MISSISSIPPI 39730

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MS ARNG)

At
Aberdeen Army National Guard Armory
Indoor Firing Range
809 Highway 145 North
Aberdeen, Mississippi 39730

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

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B. LEAD WIPE SPREADSHEET
C. MEMO AND FORM SUBMISSION TO LABORATORY
D. LABORATORY RESULTS
E. RANGE PHOTOGRAPH INDEX ANDPHOTOGRAPHS

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SUBJECT:
Indoor Firing Range Lead Wipe Report for the Mississippi Army National Guard's Aberdeen Armory Indoor Firing Range located at 809 Highway 145 North, Aberdeen, Mississippi 39730.

BACKGROUND:

Introduction:
At the request of Non-Responsive of the Army National Guard Bureau Region South Industrial Hygiene Office, lead wipe sampling was performed in the MS ARNG Aberdeen Armory's Indoor Firing Range.
The main Point of Contact during the sampling process was Non-Responsive from the MS ARNG State Headquarters. She can be reached telephonically at Non-Responsive.

Site Description:
The Aberdeen Armory Indoor Firing Range has been cleaned and cleared of all previously stored items. The range appeared to be very clean with the exception of a few spots of grease and oil on the floor. It appeared as though a vehicle was parked in the range area after the clean-up transpired.
The walls and floor of the range is constructed of concrete. The ceiling is most probably also concrete or possibly aluminum. The ceiling is covered with a coarse fibrous material that has been painted white for illumination enhancement.
The range measurements are: Length 90'; Width 27'; and Height 14'

Scope of Work:
Instructions were to take a minimum of eighteen (18) wipe samples throughout the indoor firing range area. Samples were taken on all four walls, the floor, and the ceiling. A total of eighteen samples and two blanks were completed for the Aberdeen Indoor Firing Range.

Methodology:
Eighteen (18) lead wipe samples were taken in the indoor firing range. Individual 1' X 1' templates were utilized for each of the eighteen samples. Ghost Wipes were utilized as the medium for potential lead collection. Individual/separate pairs of latex gloves (surgical) were utilized for each individual sample to prohibit potential cross-contamination of the individual samples.

Individual samples were placed in their respective separate containers and labeled for sample location identification purposes.
Samples taken from the four walls were accomplished by taking three individual samples (one at the bottom of the wall, one midway along and up the wall, and one at the top of the wall. The three floor samples were taken diagonally across the floor. The ceiling samples were taken similarly to the floor samples. See the range and sample identification diagram in Appendix A of this report for further clarification of sampling locations.

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FINDINGS:

All eighteen lead wipe samples were under the reporting limit of 20ug/sq.ft.

The indoor firing range, for all intents and purposes, can be considered lead-free.

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APPENDIX A
INDOOR FIRING RANGE DIAGRAM WITH WIPE SAMPLE AREAS

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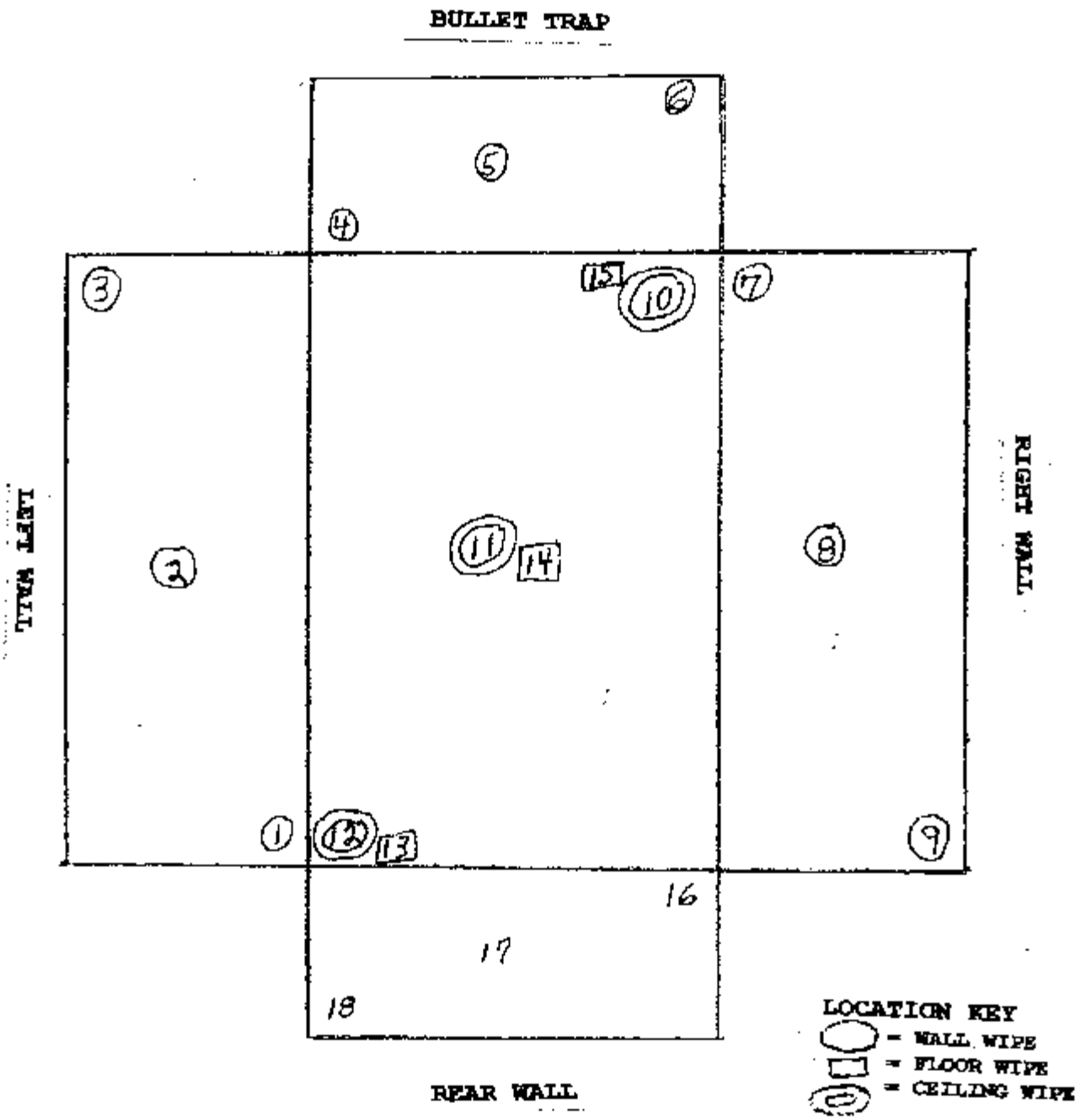
MS ARNG ABERDEEN
INDOOR FIRING RANGE
LEAD WIPE DIAGRAM



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APPENDIX B
LEAD WIPE SPREADSHEET

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LEAD WIPE SAMPLE SPREADSHEET FOR MS ARNG ABERDEEN ARMORY INDOOR FIRING RANGE 3 JUNE 2010

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
3 JUN 10	00-00L	BLANK	LEAD
3 JUN 10	00-01L	LEFT WALL, BOTTOM, BY REAR WALL	LEAD
3 JUN 10	00-02L	LEFT WALL, MIDDLE, 7' HIGH	LEAD
3 JUN 10	00-03L	LEFT WALL, TOP, BY BULLET TRAP WALL	LEAD
3 JUN 10	00-04L	BULLET TRAP WALL, BOTTOM, BY LEFT WALL	LEAD
3 JUN 10	00-05L	BULLET TRAP WALL, MIDDLE, 7' HIGH	LEAD
3 JUN 10	00-06L	BULLET TRAP WALL, TOP, BY REAR WALL	LEAD
3 JUN 10	00-07L	RIGHT WALL, BOTTOM, BY BULLET TRAP WALL	LEAD
3 JUN 10	00-08L	RIGHT WALL, MIDDLE, 7' HIGH	LEAD
3 JUN 10	00-09L	RIGHT WALL, TOP, BY REAR WALL	LEAD
3 JUN 10	00-10L	CEILING, BY BULLET TRAP WALL AND RIGHT WALL	LEAD
3 JUN 10	00-11L	CEILING, MIDDLE	LEAD
3 JUN 10	00-12L	CEILING, BY LEFT WALL AND REAR WALL	LEAD
3 JUN 10	00-13L	FLOOR, BY LEFT WALL AND REAR WALL	LEAD
3 JUN 10	00-14L	FLOOR, MIDDLE	LEAD
3 JUN 10	00-15L	FLOOR, BY RIGHT WALL AND BULLET TRAP WALL	LEAD
3 JUN 10	00-16L	REAR WALL, BOTTOM, BY RIGHT WALL	LEAD
3 JUN 10	00-17L	REAR WALL, MIDDLE, 7' HIGH	LEAD
3 JUN 10	00-18L	REAR WALL, TOP, BY LEFT WALL	LEAD
3 JUN 10	00-19L	BLANK	LEAD

ALL WIPE SAMPLES TAKEN WITH A 12" X 12" (1 sq.ft.) TEMPLATE

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM

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APPENDIX C
MEMO AND FORM SUBMISSION TO LABORATORY

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TO: 05 JUNE 2010
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA, GEORGIA 30340-3704

FROM:
Non-Responsive
d/b/a HINCHCO
P.O. BOX 3083
18 BOAT COURT
PLACIDA, FLORIDA 33946

SUBJECT: LEAD WIPE SUBMISSIONS FOR MS ARNG, ABERDEEN ARMORY INDOOR FIRING RANGE

GENTLEMEN:
I AM ENCLOSING YOUR FORMS, MY SPREADSHEET, FIRING RANGE DIAGRAM, THE SAMPLES, AND THIS MEMORANDUM.

PLEASE SEND THE RESULTS TO MY E-MAIL ADDRESS:
Non-Responsive.

BILLING FOR ANALYSIS SHOULD BE SENT TO NGB INDUSTRIAL HYGIENE REGION SOUTH IN COLLEGE PARK, GA.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME TELEPHONICALLY AT Non-Responsive OR AT THE ABOVE MENTIONED E-MAIL.

SINCERELY,
Non-Responsive

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pg 1 of 2

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: PO Box 3083
Placida, FL 33946
Contact: [redacted]
Phone:
Fax:

Project Name/#: MS ARNG - Aberdeen Armory Firing Range
Samplers Name: [redacted]
Sampling Date: 3 June 2010

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00-00L	Blank						Ghost Wipe		Lead
00-19L	Blank								
00-01L	Left Wall								
00-02L	Left Wall								
00-03L	Left Wall								
00-04L	Bullet Trap Wall								
00-05L	Bullet Trap Wall								
00-06L	Bullet Trap Wall								
00-07L	Right Wall								
00-08L	Right Wall								
00-09L	Right Wall								
00-10L	Ceiling								
00-11L	Ceiling								
00-12L	Ceiling								
00-13L	Floor								
00-14L	Floor								
00-15L	Floor								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:	[redacted]	Date/Time	9 Jun 10/0[illegible]
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

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May, 2018

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3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

Pg 2 of 2

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: Hinchco
Contact: [redacted]
Address:
Phone:
Fax:
Project Name/#: MS ARNG - Aberdeen Armory Firing Range
Samplers Name:
Sampling Date: 3 Jan 10

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME		FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	INITIAL	FINAL	AVG		
00-16L	Rear Wall						Ghost Wipe		Lead
00-17L	Rear Wall								
00-18L	Rear Wall								

Turnaround Time: Normal (5 days): ☐ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:		Date/Time	
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☐
Method of Shipment:
Lab Recipient:
Date:

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APPENDIX D
LABORATORY RESULTS

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 14, 2010

Non-Responsive
HINCHCO
PO BOX 3083
Placida FL 33946

TEL: Non-Responsive
FAX:

RE: MS Arng - Aberdeen Armory Firing Range

Dear Non-Responsive

Order No: 1006809

Analytical Environmental Services, Inc. received 20 samples on 6/9/2010 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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FOIA Requested Record #J-[illegible] (MS)
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Analytical Environmental Services, Inc

Date: 15-Jun-10

Lab Order:	1006809
Client:	HINCHCO
Project:	MS Ang - Aberdeen Armory Firing Range
Matrix:	Wipe
Date Received:	6/9/2010 10:20:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1006809-001A	00-00L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-002A	00-19L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-003A	00-01L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-004A	00-02L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-005A	00-03L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-006A	00-04L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-007A	00-05L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-008A	00-06L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-009A	00-07L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-010A	00-08L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-011A	00-09L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-012A	00-10L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-013A	00-11L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-014A	00-12L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-015A	00-13L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-016A	00-14L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-017A	00-15L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-018A	00-16L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-019A	00-17L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006809-020A	00-18L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW

Qualifiers: BRL - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Hinch Co Work Order Number 1006809

Checklist completed by Non-Responsive [redacted] 6/9/10
Signature Date

Carrier name: FedEx __ UPS ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 AMBIENT Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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APPENDIX E
RANGE PHOTOGRAPH INDEX
AND PHOTOGRAPHS

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PHOTOGRAPH INDEX

1. ABERDEEN ARMORY
2. INDOOR RANGE LOOKING DOWN RANGE
3. INDOOR RANGE LOOKING TOWARD FIRING LINE
4. CEILING COMPOSITION

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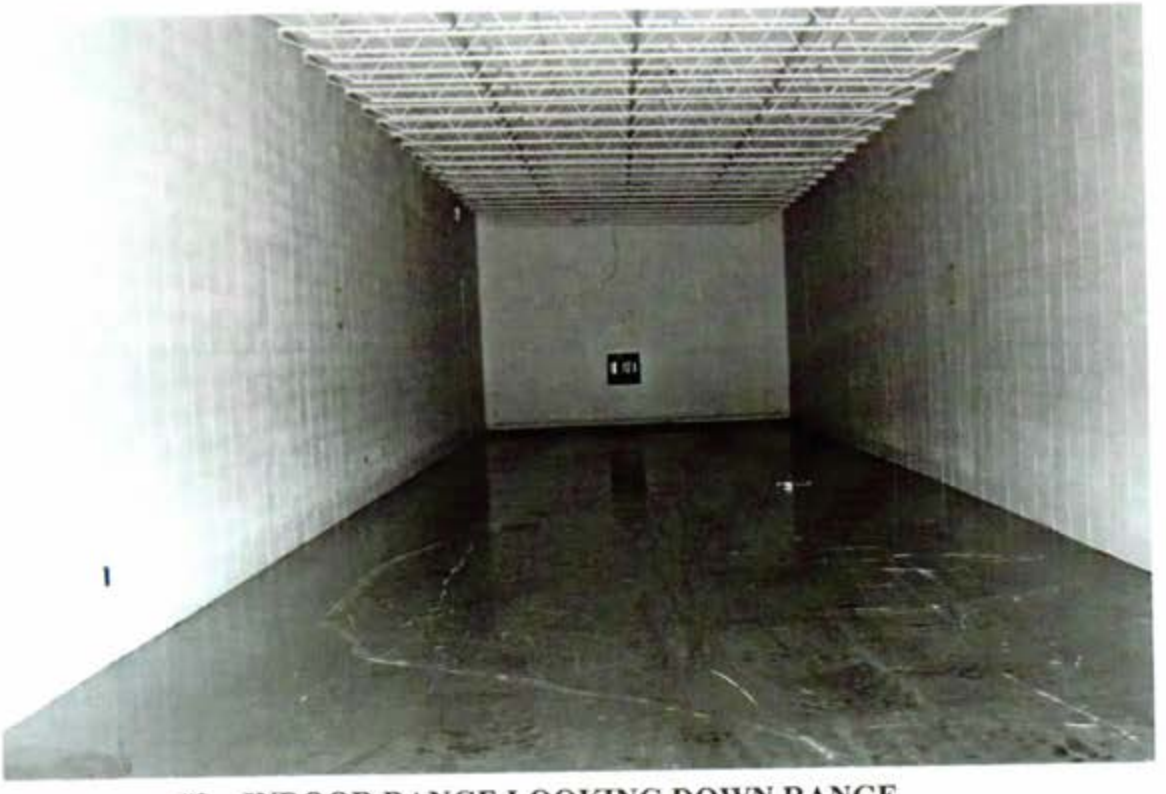
ABERDEEN RANGE PHOTOGRAPHS

#1 – ABERDEEN ARMORY



#2 – INDOOR RANGE LOOKING DOWN RANGE

ABERDEEN RANGE PHOTOGRAPHS

#3 – INDOOR RANGE LOOKING TOWARD FIRING LINE

#4 – CEILING COMPOSITION

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) 16 May 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive, Supervisor Ackerman Armory, 9540 Highway 12, Ackerman, MS 39735.

Thru: Non-Responsive, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Ackerman Armory, Ackerman, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Ackerman Armory, Ackerman, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

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16 May 2011

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Ackerman Armory, Ackerman, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2011. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2012 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]

Non-Responsive [redacted]

Regional Industrial Hygienist

CF:
Non-Responsive [redacted], State Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..
Non-Responsive [redacted]tate Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL.
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Ackerman Armory
9540 Highway 12
Ackerman, MS 39735

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive
Tammer Sciences, Inc.

May 9, 2011

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Appendices

A. Floor Layout and Illumination Measurements.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. Photographs.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Ackerman Armory on 23 February 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, where necessary, conducting an illumination survey, a noise survey, where excessive noise sources are identified, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No excessive noise levels were identified.	No action.
Illumination Survey	Average readings ranged from 14 to 89 foot candles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room.	Consider replacing the wood with metal.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Ackerman Armory in Ackerman, Mississippi on 23 February 2011

BACKGROUND:

Introduction. At the request of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Ackerman Armory in Ackerman, Mississippi. Non-Responsive, Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive, contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 23 February 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1956 and subsequently renovated in 1980, houses Detachment 1, Battery A2-114th Field Artillery. Two full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, a drill hall, a supply room, a weight room, and classrooms. This armory had an indoor firing range which was converted into a storage area. Copies of the floor layout are included in Appendix A. Photos are included in Appendix E.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Where the presence of asbestos was suspect, bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was intended to be minimally destructive and samples were collected from inconspicuous areas. Each collected sample, if collected, was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Larson Davis Model Spark 706RC noise level meter was used to collect area noise readings. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was SSG. Rone.

Lead Wipe Samples: Nine wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
AK01	Top of storage cabinet in the admin office area	<20
AK02	Top of fridge in kitchen.	<20
AK03	Floor in unit storage room.	<20
AK04	Drill hall floor north west by conference room.	<20
AK05	Drill hall floor south west by storage.	<20
AK06	Drill hall floor middle of hall.	<20
AK07	Drill hall floor south east by kitchen.	<20
AK08	Drill hall floor north east by weight room.	<20
AK09	Field blank .	<20

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: No suspect building material types were identified in the Armory as potentially containing asbestos.

Noise Survey Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were collected. Noise levels are likely to be well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

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Illumination Survey Lighting levels throughout the Armory ranged between 4 foot-candles to 176 foot-candles. Specific readings were as follows:

Area	Lighting Readings in Foot Candles		
	Min	Average	Max
Admin office 1	43	80	107
Admin office 2	36	60	90
Admin office 3	28	47	112
Admin office 4	37	64	88
Classroom	15	37	137
Admin Office 5	19	58	115
Learning center	30	79	135
Audio visual storage	5	14	135
Classroom 2	20	89	148
Weight Room	6	26	69
Facility maintenance storage	6	19	69
Table and chair storage	4	16	26
Mechanical room	25	42	77
Scullery	26	60	83
Food preparation	26	57	84
Drill hall	47	72	149
Unit storage	4	20	49
Supply	11	39	86
Supply office	24	68	176

All readings except for the Admin office 3 and the classroom were within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

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Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 12 forced air units located three mechanical rooms, two located on the first floor and one on the second. The system is capable to deliver outside makeup air to the occupied spaces. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure. No complaints of indoor air quality issues were documented or communicated with the POC. However, occupants expressed about odors from the Latrine. Upon inspection, it appears that the exhaust fans were not operational.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room and repair the exhaust fans in the latrines.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive, Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive.

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APPENDIX A

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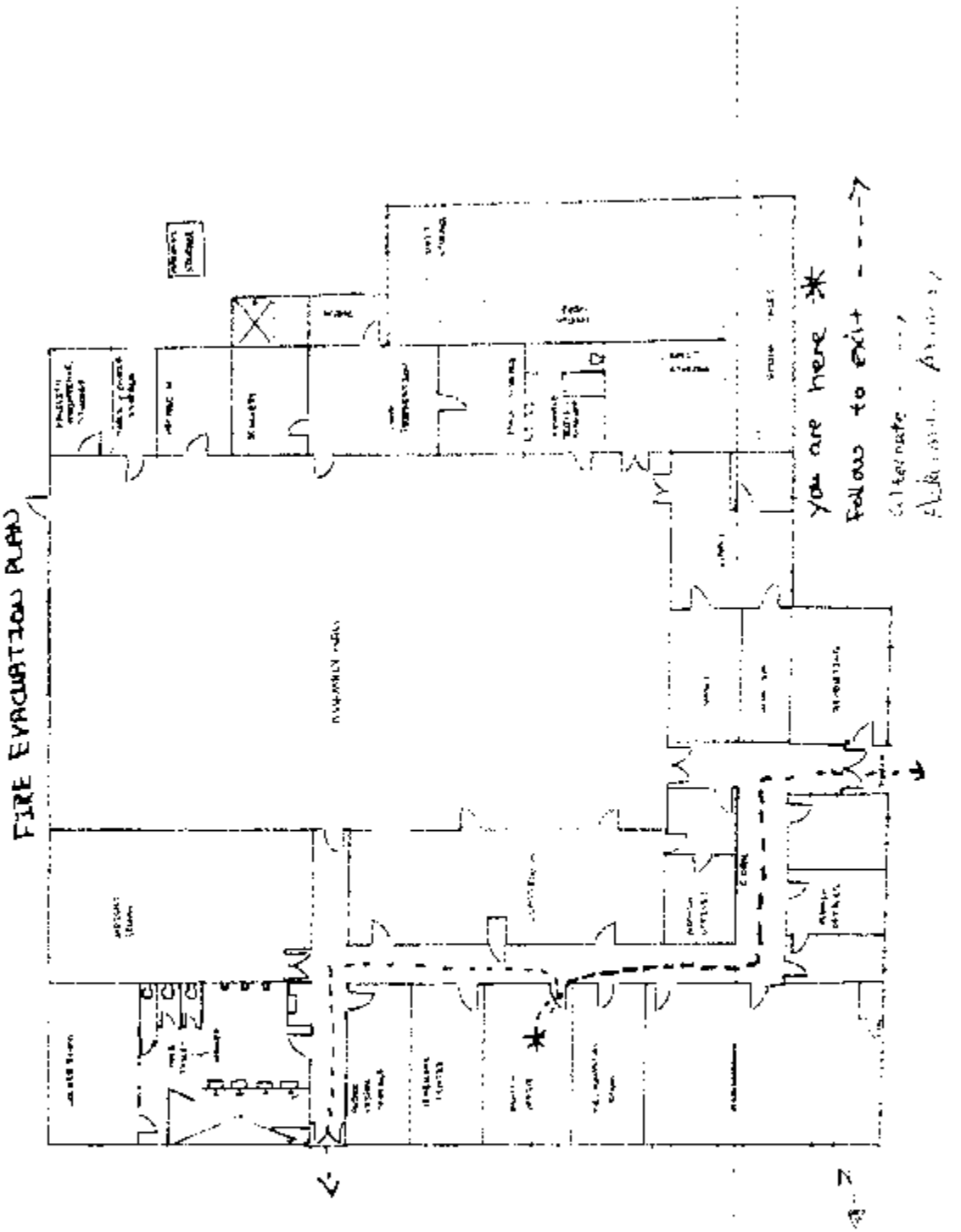

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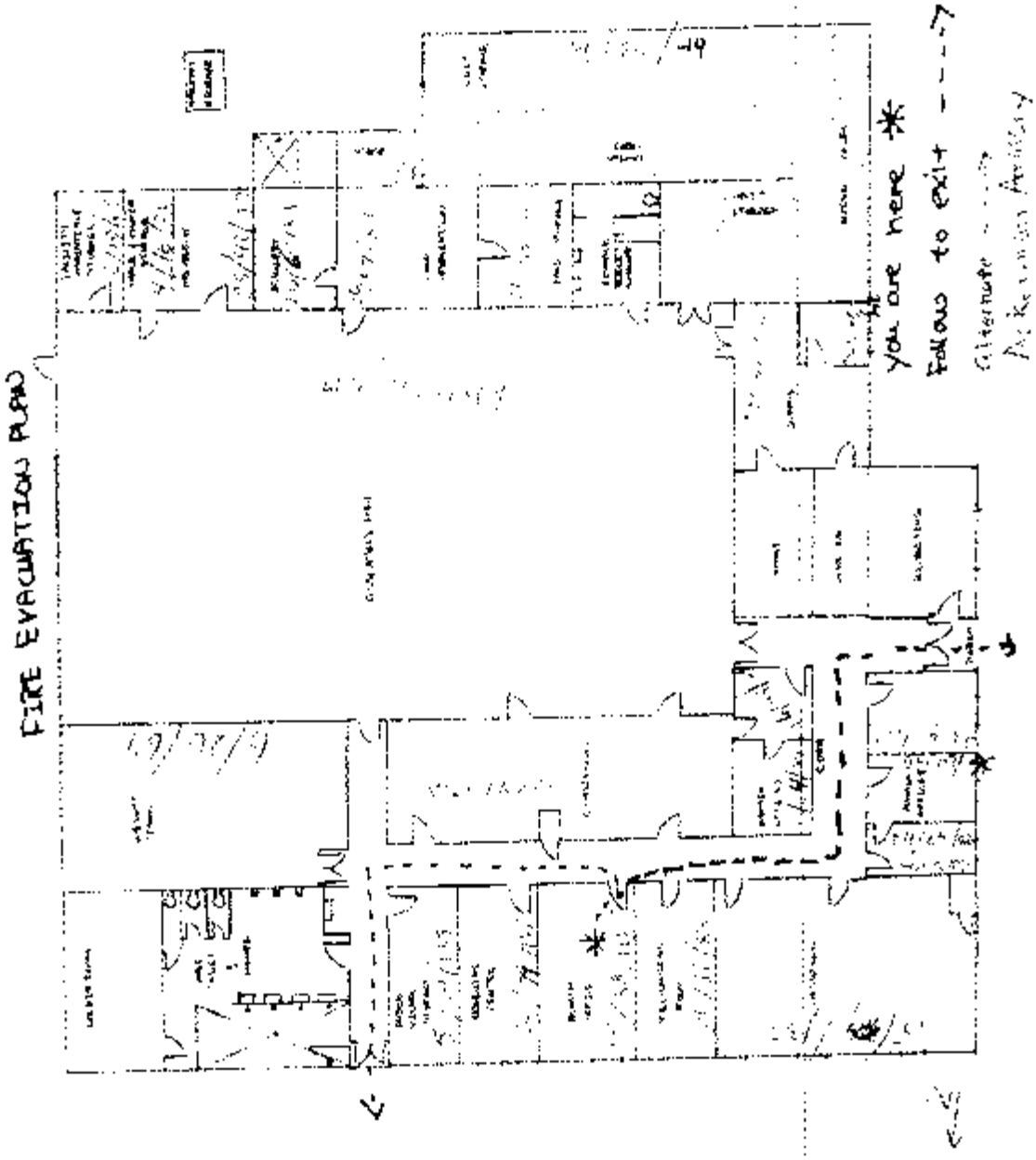

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APPENDIX B

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

March 11, 2011

[redacted]

Tammer Sciences, Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: MSARNG Armories

Dear [redacted] Order No: 1103436

Analytical Environmental Services, Inc. received 62 samples on 3/4/2011 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.

-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

[redacted]

Project Manager

5785 Pennsylvania Avenue • Atlanta, Georgia 30349 • Tel: (770) 457-8177 • FAX: (770) 457-8189

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Analytical Environmental Services, Inc.

LEAD ON WIPES (N9100-7082, N7082)

Client: [illegible]
Project: [illegible]
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: [illegible]

Laboratory ID	Client Sample ID	Results	Units	Reporting Limit	DF	Date Collected	Date Analyzed	Analyst
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May, 2018

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Analytical Environmental Services, Inc.

LEAD ON WIPES (N91B07082)
N7082

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Project:
Delivery Order:
PO No:

Lab Order:
Date Received:
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Qualifiers: [illegible]

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APPENDIX C

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

2785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE: (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 11-3936

Date: 2/24/2011 Page 1 of 1

COMPANY: Tetra Tech, Inc.

A [redacted] Non-Responsive

[redacted] Non-Responsive

ADDRESS: 3895 Lawrence Drive, Nashville, [redacted]

ANALYSIS REQUESTED: Thallium, Vanadium, Total Cyanide, Lead

PRESERVATIVE/CONTAINERS

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Lab	Comments	Matrix (See codes)	Thallium	Vanadium	Total Cyanide	Lead	REMARKS
1	MW	2/21	dex			Water	✓	✓			
2	WFB - Blank	2/21	PM			Water					
3	PM01	2/22	Ay			Soil			✓		
4	CS01 → CS11	2/22/11	PM			Soil				✓	
5	LV01 → LV10	2/21/11	PM			Soil				✓	
6	AK01 → AK09	2/22/11	PM							✓	
7	EP01 → EP09	2/22/11	PM							✓	
8	WP01 → WP10	2/21/11	PM							✓	
9	SV01 → SV10	2/22/11	PM							✓	
10											
11											
12											
13											
14											

[redacted] Non-Responsive

✓

SPECIAL INSTRUCTIONS/COMMENTS

SHIPPING INFORMATION

C.O.D. YES

IN VIA

FOR SHIPPING ORDER

PROJECT INFORMATION

PROJECT NAME: MSAENG Annapolis

PROJECT #

SITE NUMBER

SEND REPORT TO [redacted] Non-Responsive

INVOICE TO [redacted] Non-Responsive

MSAE NG ANNAPOLIS, GA

QUOTE #

PO #

RECEIPT

Total # of Coolers

Temperature Upon Receipt

Received Intact

Received On Ice

Received Broken/No Seals

Seals Not Intact (optional)

Other

DATE/TIME

DATE/TIME

SAMPLES RECEIVED AFTER 5PM OR ON SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NOT ELSE MARKED ON COC, WE WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form — Front Page

ARLOC: 4 7 0 0 0 0

Installation: Ackerman Armory

Location | Operation | Survey Date | Month | day: 1

[redacted]

Non-Responsive

Building: M A I N

Evaluator - HNUS: K H K

Macom: N G

Submacom: X X

RAC

Room Number

Unit / Organization (45): Detachment 1, Battery A2-114th Field Artillery

DSN | Commercial

Frequency (hrs/day): 1

No. CIVs | No. MIL: 0 2 | Contractors: 0 0 | No. LOCs

Ventilation Units

0 0 | 0 0 | 0 0 | 0 0

Controls Present (if>6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit Code

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-106 dBA steady) earplugs			
* helmet w/ muffs			
muffs alone			
(106-118)muff/earplug comb			
muffs and earplugs		X	X
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

HHIMS Industrial Hygiene Survey Form — Back Page

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	CAS code										PAC	EPC	Hazard Description
PONDISFCO	7	4	3	9		9	2		1				Lead Dust
POFOOTHAZ													
POFLYPROJ													
POFYFRAZA													
POFLAMHAZ													
POLIFTING													
POSHARFOB													
POHOTOBJE													
POFISHOCK													
COLUBEOIL													

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters)	MI	Sex	Category

x Personnel data provided by the facility is attached to this form

Comments Remember to comment on problems, recommendations, and needed control items

Operation described is

Small arms clean ups in drill hall. Surface wipe samples were collected fro various areas of the Armory

Refer to the report for the results

[ ] Comments continued on attached

This operation was explained to the evaluators, but was not actually observed

There is a noise data sheet attached to this form

This is a ventilation data sheet attached to this form

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APPENDIX E

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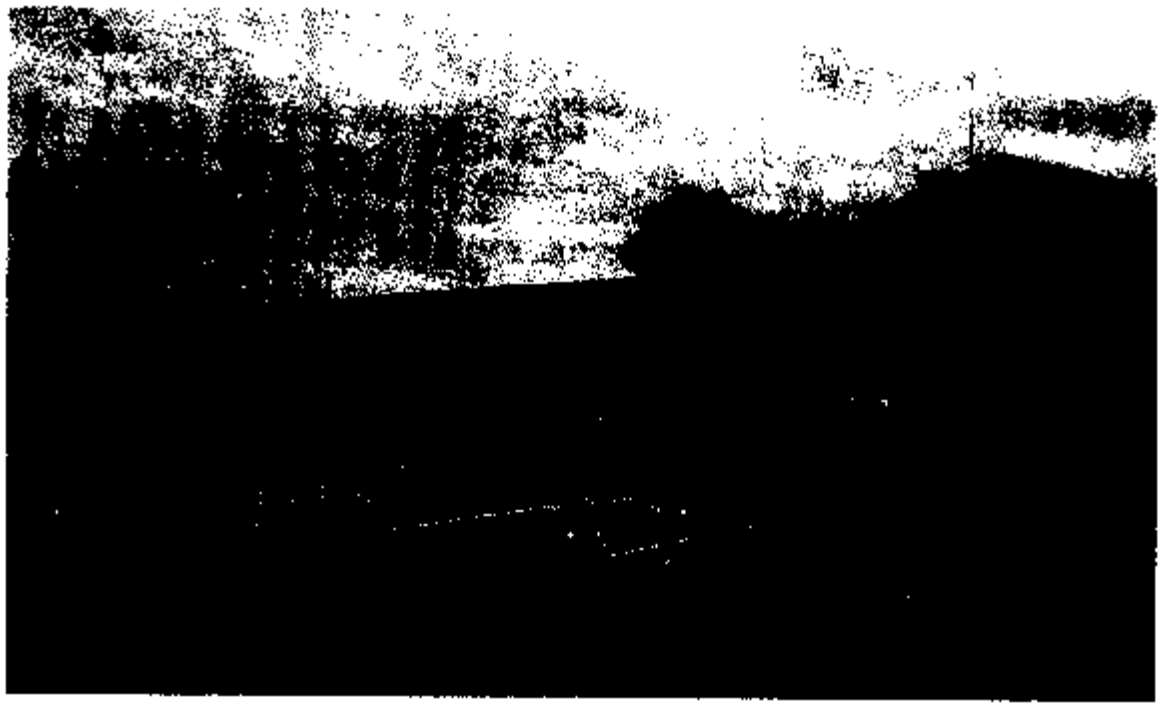

Photo #1: Front entrance to the Ackerman Armory.

Photo #2: Northwest corner.

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Photo #3: Drill hall facing east.

Photo #4: Drill hall facing west.

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Photo #5: Weight room.

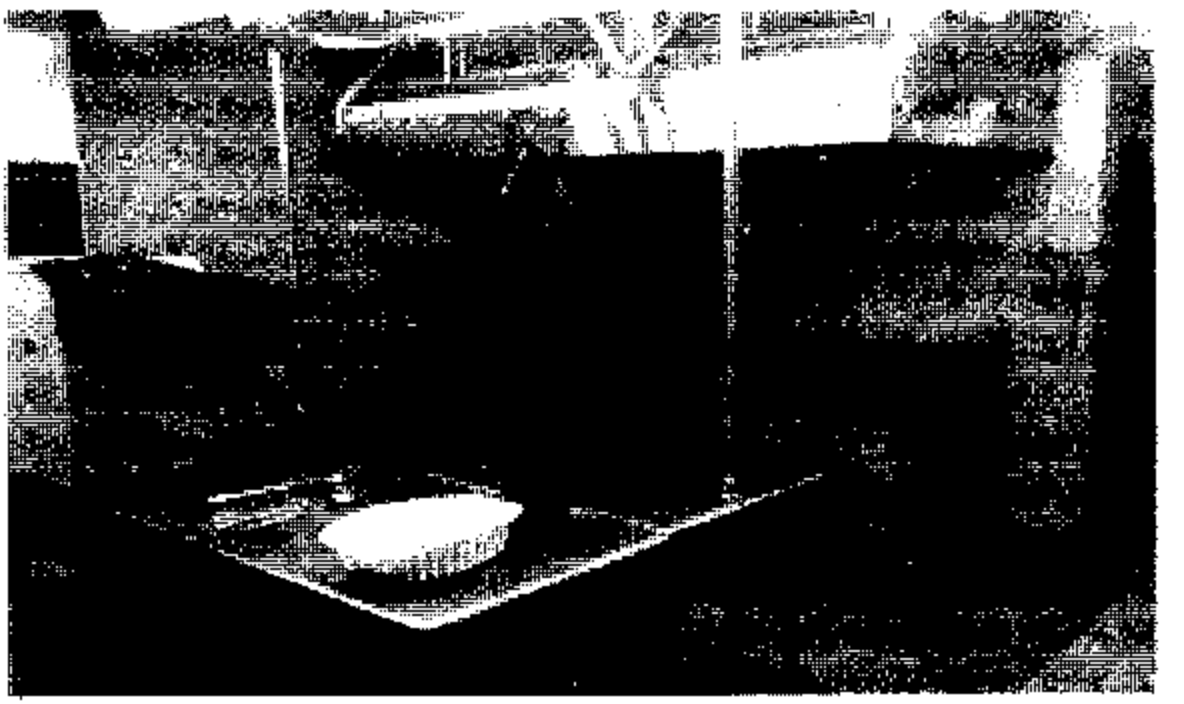

Photo #6: Kitchen.

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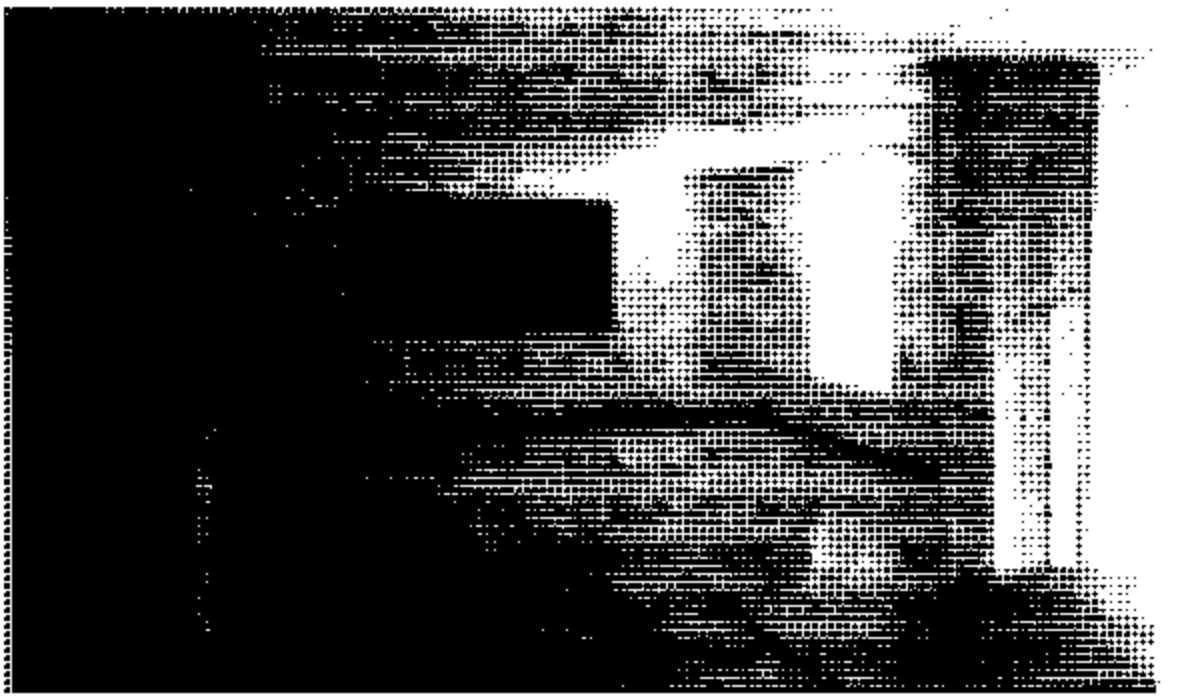

Photo #7: Classroom.

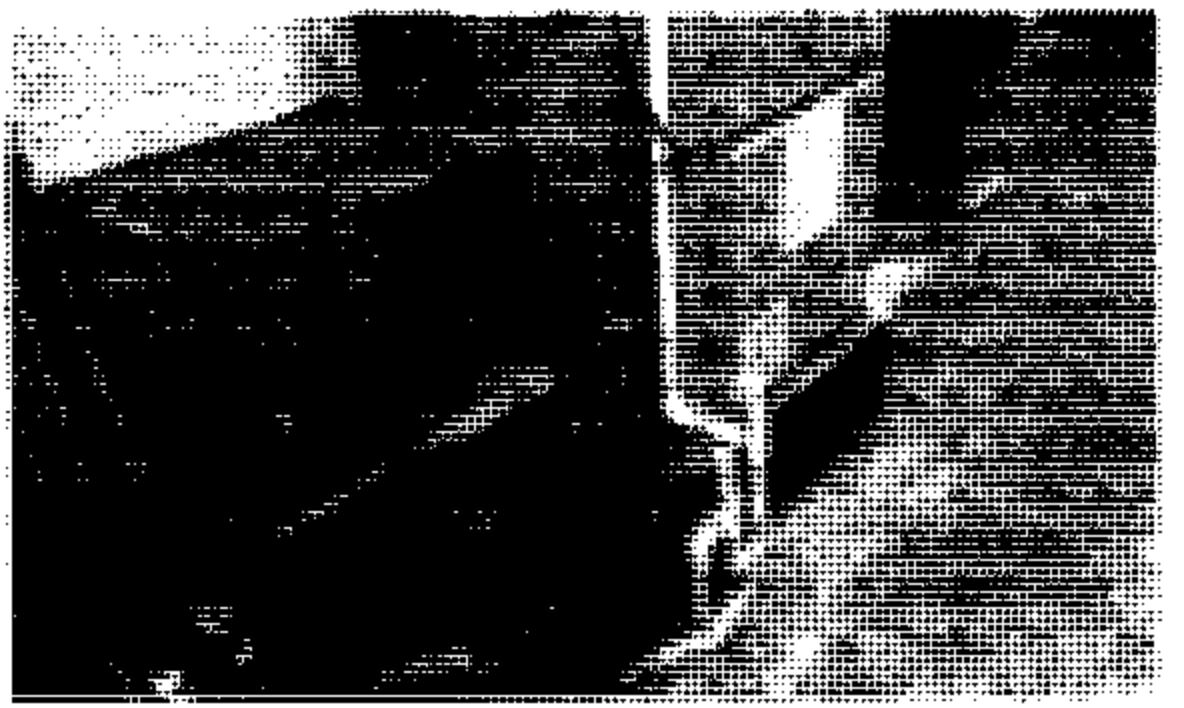

Photo #8: Mechanical room showing the furnaces.

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Photo #9: Outside the Armory showing the south east corner.

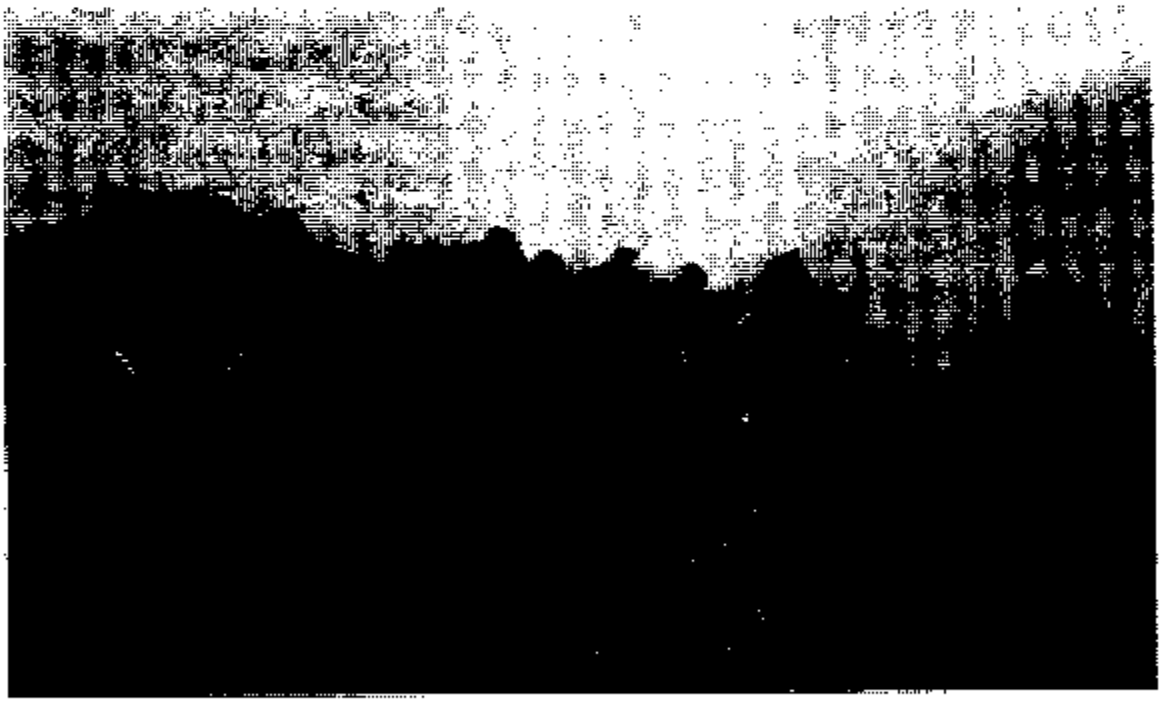

Photo #10: Outside the Armory showing the rear of the drill hall.

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG June 1, 2014

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN: Non-Responsive [redacted] Training NCO, HHT 1-98th Cavalry, 1710 Highway 25 North, Amory, Mississippi 38821.

Thru: Non-Responsive [redacted] Deputy State Surgeon, 1420 Raymond Road, Box G, Jackson, MS 39204.

SUBJECT: Transmittal of Industrial Hygiene Survey MS ARNG Amory Armory, Amory, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1998.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. USAEHA TG-141, January 2007, Guidelines for Air Sampling and Bulk sample Collection. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

2. .General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and follow up industrial hygiene sampling at the MS ARNG Amory Armory, Amory, Mississippi.

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ARNG-CSG

June 1, 2014

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Amory Armory, Amory, Mississippi.

3. Findings: The information that follows is based on the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. .

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2014. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2015 IHIP.

b. Have all HHIM data entered into the HHIM computer module.

c. Use the report to help in correcting all deficiencies noted.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the State Occupational Health Office for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of AR ARNG. If additional information is needed please contact Non-Responsive [redacted] Regional Industrial Hygienist, Non-Responsive [redacted]
Non-Responsive [redacted]

Non-Responsive [redacted]

CF:
Non-Responsive [redacted] tate Safety Manager, 1410 Riverside Dr, Jackson, MS 39202.
ccupational Health Nurse, 1410 Riverside Dr, Jackson, MS 39202.

Encl
as

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MSARNG)
At
Amory Armory
710 Highway 25 North,
Amory, Mississippi 38821

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

By Non-Responsive
DBA: M[redacted]

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Table of Contents

Subject ..... Page 1

Background ..... Page 1
- Introduction
- Site Description
- Scope of Work
- POC

Instrumentation ..... Page 1

Findings
- HHT 1-98th Cavalry..... Page 1
- Lead Wipe Results ..... Page 2
- Area Lighting and Deficiencies ..... Pages 2 & 3

Attachments:

1. Health Hazard Information Module
2. Hazard Material List
3. Analytical Lead Results/Submission Form
4. Personal Roster
5. Facility Illumination Level Diagram
6. Pictures: 1-22
7. Lead Cleanup Procedures
8. References
9. DD 2214, Noise Survey Form
10. Mitsubishi Mr. Slim Wall Mounted Mini Split A/C Cooling Only System
11. Exhaust Flow Rates in Restrooms
12. Recommendations

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May 26, 2014

MEMORANDUM FOR: Mississippi Army National Guard, Attn: Non-Responsive Training NCO, HHT 1-98th Cavalry, 1710 Highway 25 North, Amory, Mississippi 38821

SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module (HHIM) Survey, Amory Army National Guard, Amory, Mississippi

1. BACKGROUND: At the request of Non-Responsive, National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Consultation was performed at the Amory Army National Guard Armory, Amory, Mississippi on May 8th, 2014. The POC was Non-Responsive at Non-Responsive. The mailing address was P.O Box 158, Amory, Mississippi 38821. The purpose of the survey was to perform lead wipes, conduct ventilation readings and measure illumination levels. A HHIM field survey form was included in the report.

2. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples and illumination measurements. All other instrumentation was operated according to manufacture recommendations.

   a. REED LM-81LX; S/N: Q225589; Cal: 12/28/2013
   b. TSI, VelociCalc, Model 9545A, Cal: 03/2014
   c. Sensidyne Sampling Pump
   d. Extech Model 407732, SN: Z191556, Cal: 02/26/2014
   e. Extech Calibrator, Model 407722, SN: Z191557, Cal: 02/26/2014

3. Findings:

   a. HHT 1-98th Cavalry

      1. 135 M-Day soldiers and 13 AGR soldiers were assigned to the unit. The permanent party staff provided readiness and personnel support in the areas of pay, assignments, training, promotions, and schools.

      2. Material Safety Data Sheets (MSDS) were readily available on all chemicals used in the facility. Global Harmonization System information was given to SSG Pannell on the new requirements for the MSDS's.

      3. Drill Hall: Drill and ceremonies, unloading supplies and community events were conducted. Illumination levels ranged from 25 to 73 FC's. The ceiling near beam leaked.

      4. There was very little air circulation in HHT's supply 84 ft. by 11 ft. tall by 35 ft. wide area. During the spring and summer months the area would get hot and humid. There was a large ceiling louver that would draw in hot air into the room from the hot metal roof.

      5. Due to the low noise levels (administrative areas) there was no requirement for a Hearing Conservation Program. M-Day and permanent party soldiers had earplugs and earmuffs.

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6. Seven lead dust wipe samples were taken, using a 4 inch by 4 inch template. Four samples were above the federal standard of 40µg/ft² and four samples were above the Army National Guard standard of 200µg/ft². Pictures of the lead sample wipes were taken (see attachment 6, photo's 4-10). The sample submission and the analytical lead results were enclosed in the report, see attachment 3. The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
Vault Floor	M018-14	BRL
Gun Rack-Vault	M019-14	720 µg/ft²
Old Range-Garage Door Surface	M020-14	1710 µg/ft²
Old Range Locker Top	M021-14	BRL
Old Range Bullet Trap Corner	M022-14	404 µg/ft²
Old Range Wall	M023-14	BRL
Old Range Bottom Garage Door	M024-14	390 µg/ft²

Note 1: BRL means Below Recorded Limit
Note 2: µg/ft² refers to micrograms or one millionth of a gram per square foot

7. Restroom exhaust flow rates were noted in attachment 11.

8. A listing of Armory Armory personnel was shown in attachment 4.

9. A floor plan of the armory with illumination levels was included in attachment 5.

4. VENTILATION/ ILLUMINATION SURVEY RESULTS:

a. Illumination Levels: The following illumination level readings and deficiencies were noted during the survey and are reported below. Some of the fluorescent tubes had been removed due to energy conservation measures.

LOCATION	Number of Fixtures/ Lights per Fixture	Number of Burned Out Tubes, Lamps & Other Deficiencies	Illumination Foot Candles (FC)
Drill Hall (door closed)	16 Fixtures, 1 each	Ceiling leak	25-73
Storage Area (Old Range)	31 Fixtures, 2 each	3 tubes out; lead wipes taken, 1 vent inoperative	5-42
Kitchen Area	7 Fixtures, 2 each 3 Fixtures, 1 each	2 tubes out; 3 bulbs out; kitchen hood inoperative	53-76
Kitchen Storage	3 Fixtures, 2 each	4 tubes out	3-33
Kitchen Scullery	6 Fixtures, 2 each		88-99
Mess Hall	12 Fixtures, 2 each	10 tubes out	3-45; 49T, 7T, 37T
Exercise Room	24 Fixtures, 4 each	3 tubes out	51-112
Readiness Room	12 Fixtures, 4 each	2 tubes out	75-102; 58T-72T
Learning Center	4 Fixtures, 4 each	2 tubes out	34-49; 56T-87T
Pubs/Store Room	2 Fixtures, 2 each	Ceiling tile missing	
HHT Supply Area	14 Fixtures, 3 each 2 Fixtures, 3 each	Area gets hot; ceiling vent 2 tubes out	4-51

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

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LOCATION	Number of Fixtures/ Lights per Fixture	Number of Burned Out Tubes, Lamps & Other Deficiencies	Illumination Foot Candles (FC)
HHT Supply Office	4 Fixtures, 2 each		24D, 30D
Caged Storage Area	28 Fixtures, 2 each	2 tubes out; gas odor from ceiling heater	27-40
Vault	4 Fixtures, 2 each	2 lead wipes taken	65-78
Female Restroom/Shower	3 Fixtures, 2 each	1 tube out, toilet out of order, low exhaust	28-52
Men's Restroom/Shower	8 Fixtures, 2 each 6 Fixtures, 1 each	Low exhaust rate	18-59
HHT Orderly Room	8 Fixtures, 4 each	4 tubes out	22-129; 49D, 91D
Training Office	3 Fixtures, 4 each	3 tubes out	46D
Readiness Office	3 Fixtures, 4 each	2 tubes out	39D, 48-82
S-3, Plans & Training	21 Fixtures, 4 each	11 tubes out	48T,35D,42D,36T,7D
S-3, Office	2 Fixtures, 4 each	4 tubes out	86D
S-4, Logistics	1 Fixture, 2 each		42D,47D,50D;53-108
S-1, Personnel	6 Fixtures, 4 each	9 tubes out	63D,78T,95T; 80-120
Mail Room	4 Fixtures, 4 each	7 tubes out	33T; 75-93
Office next to Mail Rm.	2 Fixtures, 4 each		44T, 61T
Classroom No.2	6 Fixtures, 3 each	6 tubes out	29-74
Recruiter	6 Fixtures, 3 each	3 tubes out	23D, 30D; 48-73
War Room	12 Fixtures, 4 each	19 tubes out	37T,39T,66T,53T,4P 5-107
Fire Support Room	4 Fixtures, 3 each	4 tubes out	18-53
Bunk Room	2 Fixtures, 3 each		60-63
Restroom-Staff Confer.	1 Fixture, 2 each	Low exhaust rate	27-28
S-4, Storage Room	2 Fixtures, 3 each	1 tube out	39-60
Staff Conference Area	9 Fixtures, 3 each	8 tubes out	55T, 57, 75T

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

b. If work practices change, a new assessment should be made on the controls in place.

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5. TECHNICAL ASSISTANCE:

POC for further assistance concerning this evaluation is Non-Responsive

Non-Responsive

Industrial Hygiene Technician

CF:

State Safety Office
ATTN: NGMS-S (Non-Responsive
2497 N West Street
Jackson, MS 39216-2497

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Attachment 1

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HEALTH HAZARD INFORMATION MODULE: INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

[redacted]

ARLOC	INSTALLATION	BLDG/RM NO.
28000	MISSISSIPPI ARMY NATIONAL GUARD	AMORY ARMORY

LOCATION/CODE	OPERATION/CODE
AD	ADO/SAH

SURVEY DATE	EVALUATOR
MAY 8, 2014	Non-Responsive

MACOM/CODE	SUBMACOM/CODE	SUPERVISOR
NG	XX	Non-Responsive

TELEPHONE/DSN NO.	UNIT/ORGANIZATION	RAC	FREQUENCY (hrs/day)
Non-Responsive	HHT 1-98TH CAVALRY	3	8-9 hrs/day

NO. CIV(S)	NO. MIL	NO. CONTRACTORS	NO. LOC(S)	NO. OTHER
	13			

SECTION 2: FACILITY DATA

LAB HOODS	VAPOR DEGREASERS	SPRAY BOOTHS
0	0	0
MAINTENANCE BAYS	**OPEN SURFACE TANKS**	**VENTILATION UNITS**
0	0	0

SECTION 3: SURVEY DATA

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED	STATUS
2 GMV (DRILL HALL)	ADEQUATE NOISY	GMV	GMV	ACCOM
OTH (DRILL HALL)	25-73 FTC ADEQUATE	FTC	50 FTC (20-50 NOMINAL RANGE)	ACCOM
OTH (MESS HALL)	3-45 FTC INADEQUATE	FTC	50-70 FTC	RECMD
OTH (CLASSROOM)	50-87 FTC ADEQUATE	FTC	50-70 CFM	ACCOM

PERSONAL PROTECTIVE EQUIPMENT (R= REQUIRED; U = UTILIZED)

GLOVES	R/U	RESPIRATOR	NIOSH TC NO.	MANUFACTURER	R/U
ACID	/	AIR LINE			/
COLD SURFACES	/	ABRASIZE BLASTING HOOD			/
HOT SURFACES	/	DISPOSABLE			/
NBC AGENTS	/	FULL FACE AIR PURIFYING			/
OIL	/	1/2 FACE AIR PURIFYING			/
SOLVENTS	/	1/4 FACE AIR PURIFYING			/
SURGICAL GLOVES	/	SELF CONTAINED			/

EYES/FACE	R/U	HEARING	R/U	BODY	R/U	HEAD/FIT	R/U
CHEMICAL SPLASH	/	CANAL CAPS	/	APRONS	/	COLD WEATHER BOOTS/HATS	/
FULL FACE SHEILD	/	EARPLUGS	X/X	COLD WEATHER CLOTHING	/	HARD HATS	/
CHEMICAL/SAFETY	/	HELMETS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SAFETY/IMPACT	X/X	MUFFS	X/X	FULL BODY SUIT	/	SAFETY/CONDUCTIVE SHOES	/
WELDING HELMET	/	MUFF/EARPLUG COMBO	/	BDU'S	X/X		/

SECTION 4: HAZARD INVENTORY DATA

CAS CODE	HAZARD DESCRIPTION	PAC	EPC
7439-92-1	LEAD, INORGANIC DUSTS, AS PB	2	B
PONOISECO	NOISE, CONTINUOUS	2	D
98615-67-9	NATURAL GAS	3	A

SECTION 5: PERSONNEL DATA

LAST NAME	FIRST NAME	MI	SEX	SSN	CATEGORY
See Personnel Roster			M	NA	AGR

SECTION 6: COMMENTS

There was no air circulation in the HHT Supply area.
The women's toilet was out of order.
Gas smell from gas heater in supply cage area.
Ceiling leak in the Drill Hall.
Lead wipes were performed in the old indoor range and the vault.
Poor exhaust rates were noted in the women's and small restrooms.
Noise level reading taken from Kabota riding lawnmower.
Water had white alkaline on the drinking fountain surface. Large bottle water containers were used in place of the drinking water.
The kitchen hood was inoperative.

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME Amory ARMORY
LOCATION Amory

STORAGE AREA: Back Paint Cabinet

PAGE 1 OF 2 PAGES

INVENTORY DA 12-Jan-14

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT RECD	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Spray Adhesive	N/A	N/A	X			X	X	1 LB	365	0.01	13	13	NA				
Buck Eye	N/A	NA					X	23 OZ	365	0 01	6	6	NA				
SPRAY PAINT (GREEN)	NA	NA	X	X		X		10 OZ	365	0.01	7	7	NA				
WD-40	6850-00-835-0484	NA	X	X				11 OZ	365	0.01	4	4	NA				
INSECTICIDE	450-93-C-111	NA	X	X				12 OZ	365	0.01	5	5	NA				
PAINT (A. 277-2B)	N/A	NA				X		1 GAL	365	0.01	2	2	NA				
PAINT (B. TOP WALL)	NA	NA	X	X		X	X	PT	365	0.03	1.3125	1.3125	NA				
PRO LUBE	9150-00-438-0075	124-38-9	X	X	X	X		PT	365	0.01	7.8125	7.8125	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6 2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

AGO FORM 415R
1 Dec 96

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HAZARDOUS M. _RIAL INVENTORY

FACILITY NAME Amory ARMORY
LOCATION Amory
INVENTORY DA 12-Jan-14

STORAGE AREA: BACK PAINT CABINET

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

AGO FORM 415R
1 Dec 96

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FOIA Requested Record #J-15-0085 (MS)
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HAZARDOUS I .RIAL INVENTORY

FACILITY NAME Amory ARMORY
LOCATION Amory
INVENTORY DA 12-Jan-14

STORAGE AREA: Flame Cabinet

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
JOHNSON SIG WAX	7930-00-N04-9627	34590-94-8				X	X	GL	365	0.04	41.5	41.5	NA				
BLEACH	6850-00-027-2812	7681-52-9			X	X	X	GL	365	0.03	49.8	49.8	NA			100	
URINAL BLOCKS	7930-00N091532	106-46-7				X	X	PT	365	0.02	13.5	13.5	NA			100	
HAND CLEANER	8520-00-082-2146	8042-47-5			X			PT	365	0.03	48	24	NA				
LIQUID DRANO	7930-01-381-3426	7732-18-5			X	X	X	GL	365	0.01	10.375	10.375	NA				
HAND CLEANER	8520-00-225-8563	7732-18-5			X			PT	365	0.02	48	24	NA				
SCOURING POWDER W/O BLEACH	7930-01-294-1115	14808-60-7				X	X	PT	365	0.01	31.5	31.5	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

AGO FORM 415R
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HAZARDOUS I. RIAL INVENTORY

FACILITY NAME Amory ARMORY
LOCATION Amory
INVENTORY DA 12-Jan-14

STORAGE AREA: Flame Cabinet

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
ALL PURPOSE CLEANER	7930-00-926-5280	57018-52-7			X	X	X	PT	365	0.02	48	48	NA				
CLEANEMS	7930-01-423-1120	5989-27-5				X		PT	365	0.01	2	2	NA				
SOAP	8520-00-550-6417	8052-48-0				X		PT	365	0.01	10	10	NA				
STRIPER FLOOR	7930-00-045-6912	67-56-1			X	X		GAL	365	0.02	41.5	41.5	NA			5000	

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1405B03

Date: _____ Page _____ of _____

COMPANY: MINCKLER & Associates

ADDRESS: 1503 ZAIGER DRIVE COLO. SPGRS, CO 80915

[redacted]

PHONE: [redacted]

SAMPLE: [redacted]

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	LEAD 4"X4"	REMARKS	No # of Containers
1	M018-14	5/8/14	1000			WIPE	X	VAULT FLOOR	
2	M019-14	"	1005			WIPE	X	GUN RACK-vault	
3	M020-14	"	1010			WIPE	X	RANGE-DOOR	
4	M021-14	"	1015			WIPE	X	RANGE-LOCKER	
5	M022-14	"	1020			WIPE	X	RANGE-CORNER	
6	M023-14	"	1025			WIPE	X	RANGE-WALL	
7	M024-14	"	1030			WIPE	X	RANGE-Bottom Door	
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (See codes)

[redacted] DATE/TIME 9/5/14 1100a

RECEIVED BY [redacted] DATE/TIME 5/12/14 11:40a

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER _____

PROJECT INFORMATION
PROJECT NAME: AMORY ARMORY
PROJECT #: 2
SITE ADDRESS: HHT 1-98th CAV 1710 HWY 25 N. AMORY MS
SEND REP[redacted]
INVOICE TO: NATIONAL GUARD BUREAU (IF DIFFERENT FROM ABOVE) REGIONAL IH OFFICE 510 PLAZA DR. SUITE 1530 COLLEGE PARK, GA
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N, Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

No. 2889 P. 1
Oct. 4. 2006 11:40
2 of 5
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Analytical Environmental Services, Inc

Date: 19-May-14

Lab Order: 1405B03
Client: Minckler & Associates
Project: Armory Armory
Matrix: Wipe
Date Received: 5/12/2014 11:40:00 AM

LEAD ON WIPES (N7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1405B03-001A	M018-14	BRL	µg/ft²	180	1		05/08/2014	05/16/2014	JS
1405B03-002A	M019-14	720	µg/ft²	180	1		05/08/2014	05/16/2014	JS
1405B03-003A	M020-14	1710	µg/ft²	180	1		05/08/2014	05/16/2014	JS
1405B03-004A	M021-14	BRL	µg/ft²	180	1		05/08/2014	05/16/2014	JS
1405B03-005A	M022-14	404	µg/ft²	180	1		05/08/2014	05/16/2014	JS
1405B03-006A	M023-14	BRL	µg/ft²	180	1		05/08/2014	05/16/2014	JS
1405B03-007A	M024-14	390	µg/ft²	180	1		05/08/2014	05/16/2014	JS

Qualifiers BRL - Not Detected at the Reporting Limit DF - Dilution Factor

R - Analyte detected in the associated Method Blank

Results are blank corrected where applicable

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Attachment 4

AGR STAFF AND DUTY POSITION

Non-Responsive

O
4
3
1 NCOIC
1 ASSIST.
4 NCOIC
PERATIONS NCOIC
SSIST. OPS NCO
QUD. MASTER GUNNER
EADINESS NCO
RAINING NCO
DMIN NCO
UPPLY NCO

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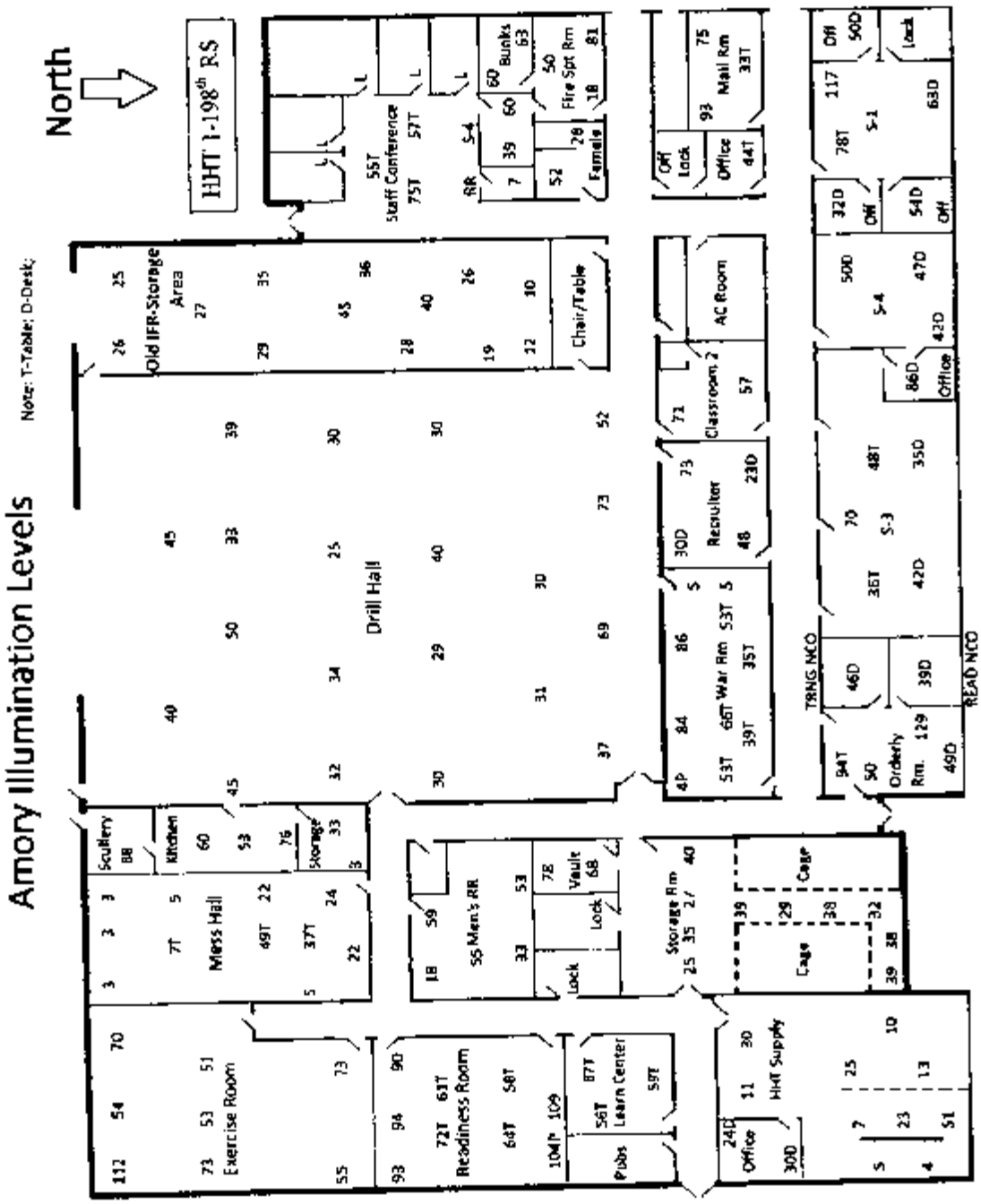
Attachment 5



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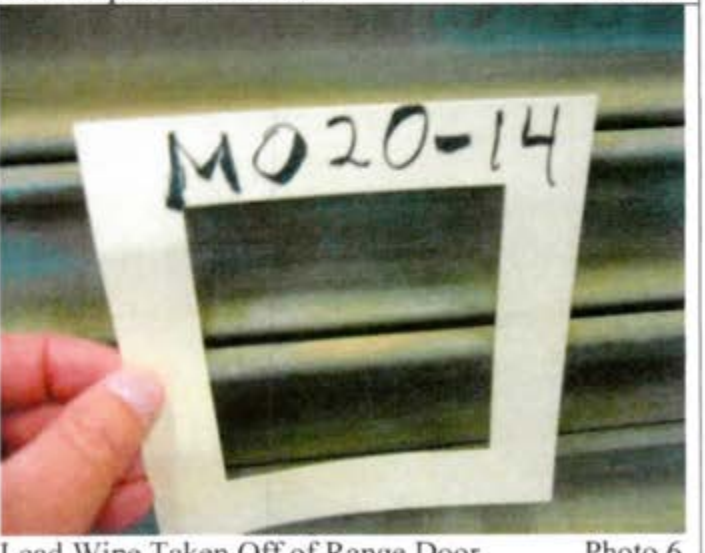
Drill Hall-Measuring Lighting Levels Photo 1

Wall Exhaust Vents Photo 2

Ceiling Water Leak Near Beam Photo 3

Lead Wipe on Vault Floor Photo 4

Lead Wipe from Weapons Rack-Vault Photo 5



Lead Wipe Taken Off of Range Door Photo 6

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Lead Wipe-Top of Wall Locker in Range Photo 7

Lead Wipe-Corner End of Old Range Photo 8

Lead Wipe-Wall Surface of Old Range Photo 9

Lead Wipe-Bottom of Garage Door, Range Photo 10

Old Range with Wall Lockers Photo 11

Kitchen Area Photo 12

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Exhaust Hood Inoperative Photo 13

No Air Circulation-Hot and Humid Photo 14

Supply Rm. Louver-Draws In Heat from Roof Photo 15

No Protective Screen on Exhaust Fan Photo 16

Women's Toilet Out of Order Photo 17

Measuring Exhaust Flow in Men's RR Photo 18

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Alkaline Buildup in Water Photo 19

Missing Ceiling Tile in Pubs/Storage Rm Photo 20

Low Lighting Levels in Mess Hall Photo 21

Sound Level Reading from Kabota Photo 22

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Step-by-Step Summary

Cleaning: How To Do It

1. Include step-by-step procedures for precleaning, cleaning during the job, and daily and final cleaning in project design or specifications.

2. Assign responsibilities to specific workers for cleaning and for maintaining cleaning equipment.

3. Have sufficient cleaning equipment and supplies before beginning work.

4. If contamination is extensive, conduct precleaning of the dwelling unit. Move or cover all furniture and other objects.

5. Conduct ongoing cleaning during the job, including regular removal of large and small debris and dust. Decontamination of all tools, equipment, and worker protection gear is required before it leaves containment areas. Electrical equipment should be wiped and high-efficiency particulate air (HEPA) vacuumed, not wetted down, to minimize electrocution hazards.

6. Schedule sufficient time (usually 30 minutes to an hour) for a complete daily cleaning, starting at the same time near the end of each workday after lead hazard control activity has ceased.

7. For final cleaning, wait at least 1 hour after active lead hazard control activity has ceased to let dust particles settle.

8. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceilings, walls, trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.

9. Wash all surfaces with a lead specific detergent, high-phosphate detergent, or other suitable cleaning agent such as Mr. Clean or Spic-n- Span to dislodge any ground-in contamination, then rinse. Change the cleaning solution after every room is cleaned.

10. Repeat step 8. To meet clearance standards consistently, a HEPA vacuum, wet wash, and HEPA vacuum cycle is recommended. For interim control projects involving dust removal only, the final HEPA vacuuming step is usually not needed. Other cleaning methods are acceptable, as long as clearance criteria are met and workers are not overexposed.

11. After final cleaning, perform a visual examination to ensure that all surfaces requiring lead hazard control have been addressed and all visible dust and debris have been removed. Record findings and correct any incomplete work. This visual examination should be performed by the owner of an owner's representative who is independent of the lead hazard control contractor.

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12. If other construction work will disturb the lead-based paint surfaces, it should be completed at this point. If those surfaces are disturbed, repeat the final cleaning step after the other construction work has been completed.

13. Paint or otherwise seal treated surfaces and interior floors.

14. Conduct a clearance examination.

15. If clearance is not achieved, repeat the final cleaning.

16. Continue clearance testing and repeated cleaning until the dwelling achieves compliance with all clearance standards. As an incentive to conduct ongoing cleaning and a thorough final cleaning, the cost of repeated cleaning after failing to achieve clearance should be borne by the contractor as a matter of the job specifications, not the owner.

17. Do not allow residents to enter the work area until cleaning is completed and clearance is established.

18. Cleaning equipment list:

* HEPA vacuums.

* Detergent.

* Waterproof gloves.

* Rags.

* Sponges.

* Mops.

* Buckets.

* HEPA vacuum attachments (crevice tools, beater bar for cleaning rugs).

* 6-mil plastic bags.

* Debris containers.

* Waste water containers.

* Shovels.

* Rakes.

* Water-misting sprayers.

* 6-mil polyethylene sheeting (or equivalent).

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REFERENCES:

1. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

2. Army Regulation (AR) 40-5, 15 October 1990, Medical Service, Preventive.

3. AR 11-34, 15 February 1990, The Army Respiratory Program.

4. AR 385-10, 23 May 1988, Army Safety Program.

5. FC-Reg. 385-2, 1 July 1999, Ionizing and Nonionizing Radiation Protection Program

6. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

7. Technical Bulletin Medical (TB MED) 530, 1 January 1991, Food Service Sanitation

8. Department of the Army Pamphlet 40-503, 30 October 2000, The Army Industrial Hygiene Program.

9. National Guard Regulation (NGR) 385-10, 20 December 1989, Army National Guard Safety and Occupational Health Program.

10. Industrial Ventilation, 26th Edition, American Conference of Governmental Industrial Hygienist (ACGIH), Cincinnati, Ohio.

11. IES Lighting Handbook, Application Volume, 1987, Illumination Engineering Society of North America.

12. Army Facilities Management Information Document on Mold Remediation Issues, Technical Guide (TG) 277.

13. DoD Instruction 1010.15 "Smoke Free DoD Workplace"

14. NGR 415-12, The Army National Guard Facility Construction

15. Lead-based paint inspections shall be performed in accordance with methods and standards established either by a State or Tribal program authorized by the EPA under 40 CFR 745.324, or by the EPA at 40 CFR 745.227(b) and (h).

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Attachment 9

NOISE SURVEY
(Sound Level Meter Survey)

1. DATE *(YYYYMMDD)*	2. TYPE SURVEY *(Enter code)*
20140508	I 1 - INITIAL SURVEY 2 - RE-SURVEY 3 - OTHER

3. SOUND LEVEL METER		4. MICROPHONE		5. CALIBRATOR	
a. MANUFACTURER: Extech		a. MANUFACTURER:		a. MANUFACTURER: Extech	
b. MODEL: 407732	c. SERIAL NO.: Z191556	b. MODEL:	c. SERIAL NO.:	b. MODEL: 407722	c. SERIAL NO.: Z191557
d. LAST ELECTROACOUSTIC CALIB DATE *(YYYYMMDD)*: 20140226		d. LAST ELECTROACOUSTIC CALIB DATE *(YYYYMMDD)*:		d. LAST ELECTROACOUSTIC CALIB DATE *(YYYYMMDD)*: 20140226	

6. WIND SCREEN *(X one)*	7. MEASUREMENTS OBTAINED *(X one)*
X USED / NOT USED	INDOORS / X OUTDOORS

8. DESCRIPTION OF AREAS/DUTIES WHERE NOISE SURVEY CONDUCTED *(Illustrate on additional sheet and attach to form)*

Amory Armory
1710 HWY 25 North
Amory, Mississippi 38821

9. PRIMARY SOURCE OF NOISE

Equipment

10. SECONDARY SOURCE OF NOISE

11. SOUND LEVEL DATA / **12. PROTECTION REQUIRED** *(re: dBA - Level)*

a. LOCATION	b. METER ACTION	c. dBC	d. dBA	e. RISK ASSESSMENT CODE	a. NONE *(Less than 85)*	b. PLUG OR MUFF *(85-108)*	c. PLUG AND MUFF *(108-118)*	d. PLUG + MUFF + TIME LIMIT *(Greater than 118)*
Kabota ZD326 Riding Lawnmower	S		99	IIA		X		
					X			
					X			
					X			
					X			
					X			

NOTES: Range of levels noted by /; i.e., 102/109. At operator stations, measure at ear level.
METER ACTION: Enter F for fast meter action and S for slow meter action.

13. REMARKS *(i.e., Area and equipment posted, hearing protection in use, etc.)*

Reading was taken at ear level

Pre and Post Calibration at 114 dBA

14. MORE DETAILED NOISE EVALUATION REQUIRED: YES / X NO *(If "YES," identify type evaluation needed.)*

15. NAME(S) OF PERSON(S) IDENTIFIED FOR AUDIOMETRIC MONITORING *(Use additional sheet if more space is needed and attach to form)*

See Personnel Roster

16. SUPERVISOR OF NOISE-HAZARDOUS AREA OR OPERATION

a. NAME *(Last, First, Middle Initial)*	b. TELEPHONE *(Include area code)*	c. ORGANIZATION
Non-Responsive	Non-Responsive	HHT 1-98th Cavalry

17. SURVEY [redacted] *ame, First Name, MI)* [redacted] **TION MONITOR** *(Last Name, First Name, MI)*

Non-Responsive | Non-Responsive

DD FORM 2214, JAN 2000 PREVIOUS EDITION MAY BE USED. Adobe Professional 7.0

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online store KINGERSONS Air Conditioner Wholesale
EST: 718-429-9009 PST: 626-262-4059 CST: 832-519-1885 MST: 386-951-1722
Wholesale Direct To Public
AC Buying Guides! | Single Zone | Dual Zone | Tri Zone | Quad Zone | 5-8 Zones | Mix N Match
CEILING Systems SALE | Central Systems SALE
Central Air Conditioners | Horizontal Package Units | 2 Stage Package Unit | Gas Furnace Split System | Tankless Water Heaters | Ceiling Split AC's | Floor Standing AC's | Tent/RV/Shed Ac's
TV Wall AC's | PTAC/PTHP | Portable AC's | Generators | Air Curtains | Window/Wall Ac's | Wine Coolers | Dehumidifiers | Air Coolers | Solar Split Systems | Gift Items | Product Accessories
Home | Read FAQ's | Website Terms | Shipping Info | Why Buy From Us? | 100% SECURE WEBSITE | ACCREDITED BUSINESS | Shopping Cart | Login | SEARCH | Email US!
BEST WARRANTY IN INDUSTRY | Shopping Cart | Order Status | Login/Account

Brand : 24000 BTu Systems

Save Listing | Email Listing | Print | Share

Product Name : MSYGE24NA MUYGE24NA Mitsubishi Air Conditioner

zoom image

Item # : MSYGE24NA MUYGE24NA

Reg Price : $116.00

Your Price : $1,904.00

Choose QTY : 1

LOW PRICE GUARANTEE
FREE Installation Tech Support
Secure Website! SSL Encrypted
386-951-1722 / 718-429-9009

Add to Cart!

PayPal | Secure BillMeLater

Watch This Item | Make An Offer

Product Details | About Brand | Warranty | Product FAQ's | Shipping Info | Returns/Policy | Ask A Question

Product Details

MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split A/C Cooling Only System - 22,500 BTU

OPTIONAL ACCESSORIES

search products
All Categories
Click To Search
Advanced Search
shop by category
Mitsubishi Ductless Mini Split
YMGI Ductless Mini Split
LG Ductless Mini Split
Aircon Ductless Mini Split
Fujitsu Ductless Mini Split
Klimaire Ductless Mini Split
Daikin Ductless Mini Split
GREE Ductless Mini Split
Senville Ductless Mini Split
Panasonic Split Systems
Central AC/Heat Pump
Tankless Water Heaters
Water Heating System
Sanyo Ductless Mini Split
Friedrich Ductless Mini Split
ComfortStar
Wall/Window Ac's
Package Terminal AC Store
Product Accessories

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MSYGE24NA MUYGE24NA Mitsubishi Air Conditioner Air Conditioner System

The Mitsubishi **MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split A/C Cooling Only System - 22,500 BTU** is the deal solution for multiple applications, including residential, commercial and industrial. This Mitsubishi **MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split Air Conditioning System** will provide you with **22,500** BTU of heating and cooling capacity.

This efficient and effective Mitsubishi Heat Pump System, featuring high reliability and rugged construction, provides an excellent choice where personal comfort and equipment cooling meet. Thanks to Mitsubishi Electric's 30 Years of Experience, proven INVERTER-driven compressors and electronic linear expansion valves, combined with advanced control and sensor technology, provide the right performance to meet critical loads in high reliability applications. This synergy of smart design and cutting-edge environmental technology delivered by the Mitsubishi **MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split Air Conditioning System** results in true eco-comfort for any space.

High sensible heat factors averaging over 75% of system-rated capacity can handle heat generated by computers, power supplies, and other electrical and mechanical devices. Full-capacity cooling output down to zero degrees outdoor ambient (with optional wind baffle installed) provides excellent heat transfer in indoor equipment rooms and critical service centers transferring heat gains outside.

Quick and easy installation is a significant consideration in new construction and even more important in renovation applications. The Mitsubishi heat Pump System installation procedures ensure minimal interruption of operations and activities in critical service applications. Mitsubishi Electric indoor units are easy to install practically anywhere:

- High on the wall to blend into a room without taking up window space.
- In the ceiling or below the floor and totally out of sight.
- Low on the wall at floor level to be unobtrusive within the space.

Learn why Mitsubishi Mini-Split Heat Pump Systems are Flexible and Quiet.

Mini splits offer flexibility because they can be suspended from a ceiling, mounted flush behind a drop ceiling, hung on a wall or floor-standing. Mitsubishi Heat Pump Systems operate at low sound levels with indoor units producing decibels barely at a whisper level. Compare Mitubishi System sound levels to other common sounds:

- Police siren - 118 decibels
- Circular saw - 107 decibels
- Vacuum cleaner - 74 decibels
- Whisper-tone voice - 35 decibels
- Library reading room - 33 decibels
- Mitsubishi Heat Pump Indoor Units - **19-34 decibels** (at low speeds)

Mitsubishi Inverter Technology.

The **MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split Air Conditioning System** uses Mitsubishi Electric's sophisticated electronic control systems, which detect any changes in room or zone temperature and, like a car's cruise control, automatically adjust the speed of the integrated INVERTER driven compressor in the outdoor unit and the electronic linear expansion valve (LEV) position for precise capacity control. This feature is unlike conventional units, which only start and stop the constant speed compressor repetitively. Special components within the compressor such as high density windings in the motor increase the magnetic flux and artificial magnets in the rotor to reduce its weight, allowing the compressor to operate at higher energy efficiencies with better performance than ever before, while producing low sound levels both during start-up and while running.

Mitsubishi MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split A/C Cooling Only System - 22,500 BTU Features and Benefits:

- **Inverter Driven Compressor** - Maximizes energy savings by making sure only the energy needed to cool or heat an area perfectly is used. You can enjoy high-speed cooling and heating and consitent delivery of comfort year-round.
- **Easy Installation** - Installs quickly and easily, having no need for major construction and remodeling.
- **Complete Zone Control** - Realizes maximum control and energy efficiency by cooling and heating only those spaces in use.
- **Easy and Convinient Controllers** - Mitsubishi Electric offers a comprehensive remote controller that controls temperature, fan speed, and more. Choose from four modes: COOL, HEAT, AUTO, and DRY. The controller also has a 12-hour ON/OFF timer for one-button control of your personal comfort.
- **Advanced Microprocesor Technology** - Creates a comfortable environment no matter what conditions are outside with our advanced self-monitoring controls.
- **Quiet Operation** - You can hold a board meeting or teach a class in quiet comfort.
- **Easy Maintain** - With easily accessible filters, little or no ductwork to keep clean, and simple wiring between the indoor and outdoor units, Mitsubishi Heat Pump Systems require minimal maintenance, providing another level of comfort and convenience.
- **Environmentally Friendly Refrigerant** - Uses R410A, an environmentally friendly refrigerant.

The Mitsubishi MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split A/C Cooling Only System - 22,500 BTU includes:

- **Mitsubishi MUYGE24NA** - Outdoor Condenser
- **Mitsubishi MSYGE24NA** - Indoor Unit with **wireless** controller.

Product Specifications

Weight: **154.00 lb.**

> Equipment Pad Ultra Lite 2H x 16W x 36L UC1636-2

$74.99

☐ Add

> Split Air Conditioner Parts One Service Valve Adapter Brass

$34.99

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 1/4 x 1/2 - 15 ft

$115.00

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 1/4 x 3/8 - 35 ft

$209.99

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 1/4 x 5/8 - 35 ft

$245.00

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 3/5 x 5/8 - 35 ft

$249.99

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 1/4 x 1/2 - 35 ft

$229.99

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MSYGE24NA MUYGE24NA Mitsubishi Air Conditioner Air Conditioner System

MSYGE24NA + MUYGE24NA Performance:	
Cooling Capacity (BTU):	22500
Cooling Capacity Range (BTU):	8,200 - 31,400
Total Input (W):	1,800
SEER:	19
Moisture Removal (Pts/hr):	2.7
Sensible Heat Factor:	0.63
MSYGE24NA + MUYGE24NA Power:	
Power Supply:	1-phase, 60Hz, 208 / 230V *2
Indoor - Outdoor S1 - S2 Voltage:	AC 208 / 230V
Indoor - Outdoor S2 - S3 Voltage:	DC12-24V
MSYGE24NA + MUYGE24NA Indoor Unit Specifications:	
MCA (A):	1
Fan Motor (FLA):	0.76
Airflow at Cooling Quiet-Lo-Med-Hi-Super Dry (CFM):	388-469-628-738
Airflow at Cooling Quiet-Lo-Med-Hi-Super Wet (CFM):	347-420-562-661
Cooling Sound Pressure Quiet-Lo-Med-Hi-Super (dB):	34-41-49-53
External Finish Color:	Munsell No. 1.0Y 9.2 / 0.2
MSYGE24NA + MUYGE24NA Indoor Unit Dimensions:	
Width (Inches):	43-5/16
Depth (Inches):	9-3/8
Height (Inches):	12-13/16
Weight (lbs):	37
Field Drainpipe Size O.D. (Inches):	5/8
MSYGE24NA + MUYGE24NA Outdoor Unit Specifications:	
MCA (A):	17.1
MOCP (A):	20
Fan Motor (FLA):	0.93
Compressor Type:	DC INVERTER-driven Twin Rotary
Compressor RLA:	12.8
Compressor LRA:	16
Cooling Airflow (CFM):	1729
Refrigerant Control:	Linear Expansion Valve
Sound Pressure Level (dB):	55
External Finish Color:	Munsell No. 3Y 7.8 / 1.1
MSYGE24NA + MUYGE24NA Outdoor Unit Dimensions:	
Width (Inches):	33-1/16
Depth (Inches):	13
Height (Inches):	34-5/8
Weight (lbs):	119
Remote Control Type:	Wireless
MSYGE24NA + MUYGE24NA Refrigerant Information:	
Refrigerant Type:	R410A
Refrigerant Charge (Lbs, Oz):	4
MSYGE24NA + MUYGE24NA Connections:	
Gas Side O.D. (Inches):	5/8
Liquid Side O.D. (Inches):	3/8
Max Height Difference (Feet):	50
Max Length (Feet):	100
Mitsubishi Warranty:	
Compressor:	7 Years
Parts:	5 Years

Mitsubishi **MSYGE24NA + MUYGE24NA Mr. Slim Wall Mounted Mini Split A/C Cooling Only System - 22,500 BTU** Warranty:

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 3/8 x 5/8 - 50 ft

$265.00

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 3/8 x 5/8 - 30 ft

$175.00

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 3/8 x 5/8 - 15 ft

$129.00

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 1/4 x 1/2 - 50 ft

$210.00

☐ Add

> Copper Lineset Insulated for Air Conditioners and Heat pumps - 1/4 x 1/2 - 30 ft

$164.00

☐ Add

> ymgi Universal wall Bracket for outdoor units

$87.00

☐ Add

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Attachment 11

Restrooms:

1. To solve the capture velocity in cubic feet/minute (CFM) of a round or rectangular shaped duct opening, the formula Q = AV must be used. The TSI air velocity meter automatically figured out the CFM once the data was inputted into the instrument. Based on that fact, the capture velocity of the functioning exhaust ducts are listed below:

   a. Men's Restroom; Velocity readings: (14 inch by 14 inch)
   Vent Duct: 102, 95, 125, 88, 60, 65, 22, 44 CFM's= **70 CFM AVG** (toilet area)

   b. Women's Restroom Shower Area; Velocity readings:
   Vent Duct: 40, 29, 46, 44, 50, 49, 39, 28, 41 CFM's = **41 CFM AVG** (9 inch X 9 inch)

   c. Women's Restroom; Velocity readings:
   Vent Duct: 32, 31, 26, 23, 29, 34 CFM's = **29 CFM AVG** (7 inch X 7 inch)

   d. Small Restroom Near Staff Conference Area: Velocity readings:
   Vent Duct: 12, 7, 6, 3, 6, 21 CFM's = **9 CFM AVG** (5 inch square)

   Section 1203.5 of the 1997 SBC references ASHRAE 62, which requires 50 cfm of ventilation per water closet or urinal for most occupancies. Table 403.3 of the 1998 IMC (International Mechanical Code) requires 75 cfm of ventilation per water closet or urinal in toilet rooms for most occupancies (the International Building Code will reference the IMC for ventilation requirements). The Council decided that the 1998 IMC would govern the ventilation requirements of toilet rooms since this is the direction that the codes are headed with the International Codes. The proposed International Mechanical Code (IMC) for mechanical exhaust rates in restrooms is 75 CFM. The men and women's restroom was slightly below the IMC requirement.

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Recommendations:

1. Go to "Modification of the Hazard Communication Standard (HCS) to conform with the United Nations' (UN) Globally Harmonized System of Classification and Labeling of Chemicals (GHS)" http://www.osha.gov/ "While full compliance with the rule begins in 2015, OSHA is requiring that employees are trained on new label elements (i.e., pictograms, hazard statement, precautionary statements and signal words) and SDS format by December 1, 2013." ISN Newsletter. (RAC 3)

2. Due to the lead dust wipe results, it is recommended that the locker room garage door surface, the floor area near the garage door, the old bullet trap floor area (old indoor firing range) and the vault gun racks be thoroughly cleaned wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Kleen or Spic-n-Span. For additional lead cleaning measures, see attachment 7. (RAC 3)

3. Check the status on the women's toilet. Submit a work order to repair/replace the exhaust fans in the women's restroom and the small restroom next to the staff conference area. Section 1203.5 of the 1997 SBC references ASHRAE 62, which requires 50 cfm of ventilation per water closet or urinal for most occupancies. Table 403.3 of the 1998 IMC (International Mechanical Code) requires 75 cfm of ventilation per water closet or urinal in toilet rooms for most occupancies (the International Building Code will reference the IMC for ventilation requirements). The Council decided that the 1998 IMC would govern the ventilation requirements of toilet rooms since this is the direction that the codes are headed with the International Codes. The proposed International Mechanical Code (IMC) for mechanical exhaust rates in restrooms is 75 CFM. (RAC 3)

4. Have the ceiling heater in the supply caged area serviced and checked for gas leaks. Turn off pilot light during the spring and summer months. (RAC 3)

5. Due to the heat and humidity, install a Mitsubishi Mr. Slim Wall Mounted Mini Split A/C Cooling Only Sytem-22,500 BTU in the HTT Supply storage area. In the meantime as a temporary measure, obtain a mini Porta-Cool evaporation cooler. See attachment 10. (RAC 3)

6. Repair the ceiling leak in the drill hall. (RAC 3)

7. Repair the exhaust kitchen hood. The air flow should be 265 CFM/foot. (RAC 3)

8. Fix the deficiencies not covered in the above mentioned recommendations in 4a.1 of the report. (RAC 3)

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P(40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: [redacted], Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: [redacted] DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for re-application of lead sealant and Status of Lead Sampling, Indoor Firing Range, Biloxi, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty sampled were collected and submitted for testing of Total Lead. Of those twenty samples, two blanks were included. One sample returned by Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia contained greater than 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected, three from each surface area for submittal to AES in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Normally this area would be re decontaminated with a sample above 200 µg/ft² before application of the sealant, but sealant was applied and the areas were not sampled before its application therefore a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04. Before re-applying the encapsulation product to protect the area from external re entry of lead dust ensure all ventilation openings of the previous ventilation system are covered by at least a 5 mil plastic sealed around the edges to make it as air tight as possible. Re-sample the area after re-applying the sealant following manufacturer's recommendation.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to re-apply lead sealant in this area, meeting the above requirements is granted.

[redacted]
Regional Industrial Hygienist

CF: NGB-ARS-IHSE
[redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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MISSISSIPPI ARMY NATIONAL GUARD
(MS ARNG)

BILOXI ARMORY (INDOOR FIRING RANGE)
377 HILLER DRIVE
BILOXI, MISSISSIPPI 39531

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Lead Wipe Sampling Report
For
Mississippi Army National Guard
(MS ARNG)

At
Biloxi Armory Indoor Firing Range
377 Hiller Drive
Biloxi, Mississippi 39531

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

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- Site Description.....Page 1
- Scope of Work.....Page 1
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APPENDICES

A. INDOOR FIRING RANGE DIAGRAM WITH WIPE SAMPLE AREAS
B. LEAD WIPE SPREADSHEET
C. MEMO AND FORM SUBMISSION TO LABORATORY
D. LABORATORY RESULTS
E. RANGE PHOTOGRAPH INDEX AND PHOTOGRAPHS

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SUBJECT:
Lead Wipe Sampling of the Mississippi Army National Guard's Biloxi Armory Indoor Firing Range, located at 377 Hiller Drive, Biloxi, Mississippi 39531.

BACKGROUND:

Introduction:
At the request of Non-Responsive of the Army National Guard Bureau Region South Industrial Hygiene Office, lead wipe sampling was performed in the MS ARNG Biloxi Armory's Indoor Firing Range.
The main Point of Contact during the sampling process was Non-Responsive from the MS ARNG State Headquarters. She can be reached telephonically at Non-Responsive

Site Description:
The Indoor firing Range has been "stripped" of all equipment, bullet traps, and any items once stored in the range. The range has been cleaned and tested for lead residue once before. The ventilation system in the ceiling is still present. It is located approximately mid-range (see photographs 2 and 4). Ventilation louvers are also still present just behind the firing line (see photographs 3 and 5). The ceiling is composed of a coarse fibrous material that has been painted.
The range dimensions are: Length = 74'; Width = 21'; Height = 14'

Scope of Work:
Instructions were to take a minimum of eighteen (18) lead wipe samples throughout the indoor firing range. Samples were taken on all four walls, the floor, and the ceiling.

Methodology:
Eighteen lead wipe samples were taken in the indoor firing range. Individual 1' X 1' templates were utilized for each of the 18 samples. Ghost wipes were utilized as the medium for potential lead collection. Individual/separate pairs of Latex Gloves were utilized for each individual sample to prohibit possible cross-contamination of the individual samples. Individual samples were placed in their respective separate containers and labeled for sample identification purposes.

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Samples taken from the four walls were accomplished by taking three individual samples (one at the bottom of the wall; one midway along and up the wall; and one at the top end of the wall). The three ceiling samples were taken diagonally across the ceiling. The same held true for the three floor samples. See the range and sample identification Diagram in Appendix A for further clarification.

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FINDINGS:

There were only four samples that indicated lead levels above the reporting limit. Out of these four samples, only one breached the action level of 200ug/sq.ft.
Samples 00-13L, 00-14L, and 00-15L were all taken on the floor of the indoor firing range.
Sample 00-13L was taken on the floor, by the rear wall and the left wall. The lead exposure at this sampling point indicated 128ug/sq.ft.
Sample 00-14L was taken mid-point on the floor. The sampling results indicated **332ug/sq.ft.**
Sample 00-15L was taken on the floor by the bullet trap wall and the right wall. Results indicated a lead exposure level of 30ug/sq.ft.
Sample 00-16L was taken on the ceiling by the right wall and bullet trap wall. The exposure level at this site indicated 185ug/sq.ft.
For further clarification of wipe sampling areas, in particular the samples mentioned above, see Appendix A of this report.

Only the floor and the one ceiling area indicated lead levels above the reporting limit. The highest lead level was indicated on the floor in the middle of the range. If the ceiling vent system was not completely cleaned, and was turned on sometime after the initial cleaning, it is possible that the vent system contaminated the floor area.

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APPENDIX A

INDOOR FIRING RANGE DIAGRAM
WITH
WIPE SAMPLE AREAS

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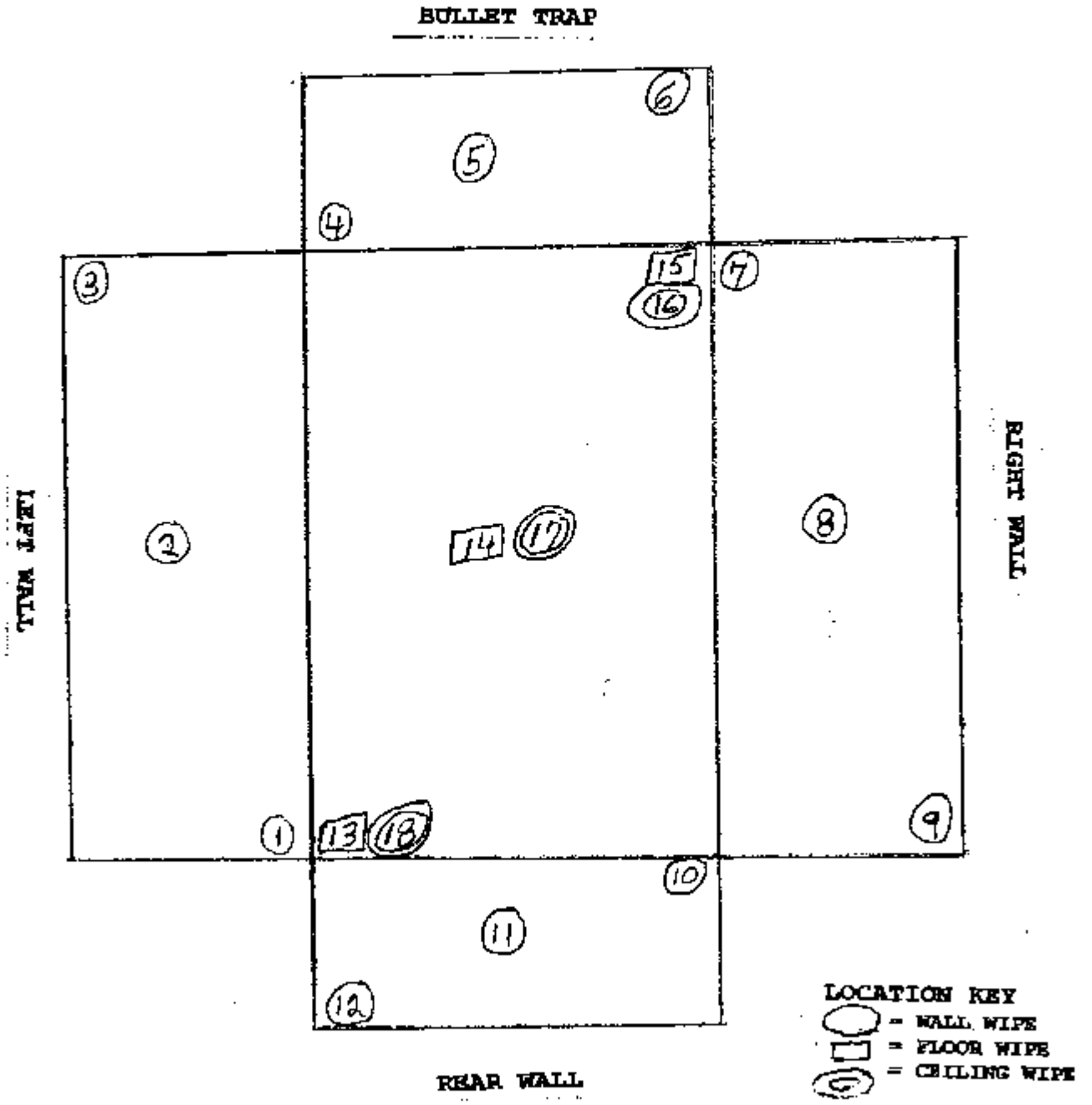
MS ARNG BILOXI
INDOOR FIRING RANGE
LEAD WIPE DIAGRAM



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APPENDIX B

LEAD WIPE SPREADSHEET

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LEAD WIPE SAMPLE SPREADSHEET FOR
MS ARNG BILOXI ARMORY
INDOOR FIRING RANGE
4 JUNE 2010

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
4 JUN 10	00-00L	BLANK	LEAD
4 JUN 10	00-01L	LEFT WALL, BOTTOM, BY REAR WALL	LEAD
4 JUN 10	00-02L	LEFT WALL, MIDDLE, 7' HIGH	LEAD
4 JUN 10	00-03L	LEFT WALL, TOP, BY BULLET TRAP WALL	LEAD
4 JUN 10	00-04L	BULLET TRAP WALL, BOTTOM, BY LEFT WALL	LEAD
4 JUN 10	00-05L	BULLET TRAP WALL, MIDDLE, 7' HIGH	LEAD
4 JUN 10	00-06L	BULLET TRAP WALL, TOP, BY RIGHT WALL	LEAD
4 JUN 10	00-07L	RIGHT WALL, BOTTOM, BY BULLET TRAP WALL	LEAD
4 JUN 10	00-08L	RIGHT WALL, MIDDLE, 7' HIGH	LEAD
4 JUN 10	00-09L	RIGHT WALL, TOP, BY REAR WALL	LEAD
4 JUN 10	00-10L	REAR WALL, BOTTOM, BY RIGHT WALL	LEAD
4 JUN 10	00-11L	REAR WALL, MIDDLE, 7' HIGH	LEAD
4 JUN 10	00-12L	REAR WALL, TOP, BY LEFT WALL	LEAD
4 JUN 10	00-13L	FLOOR, BY REAR WALL AND LEFT WALL	LEAD
4 JUN 10	00-14L	FLOOR, MIDDLE	LEAD
4 JUN 10	00-15L	FLOOR, BY BULLET TRAP WALL AND RIGHT WALL	LEAD
4 JUN 10	00-16L	CEILING, BY BULLET TRAP WALL AND RIGHT WALL	LEAD
4 JUN 10	00-17L	CEILING, MIDDLE	LEAD
4 JUN 10	00-18L	CEILING, BY LEFT WALL AND REAR WALL	LEAD
4 JUN 10	00-19L	BLANK	LEAD

ALL WIPE SAMPLES TAKEN WITH A 12" X 12" (1 sq.ft.) TEMPLATE

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM

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APPENDIX C

MEMO AND FORM SUBMISSION TO LABORATORY

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TO: 05 JUNE 2010
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA, GEORGIA 30340-3704

FROM:
Non-Responsive
d/b/a HINCHCO
P.O. BOX 3083
18 BOAT COURT
PLACIDA, FLORIDA 33946

SUBJECT: LEAD WIPE SUBMISSIONS FOR MS ARNG, BILOXI ARMORY INDOOR FIRING RANGE

GENTLEMEN:
I AM ENCLOSING YOUR FORMS, MY SPREADSHEET, FIRING RANGE DIAGRAM, THE SAMPLES, AND THIS MEMORANDUM.

PLEASE SEND THE RESULTS TO MY E-MAIL ADDRESS:
Non-Responsive

BILLING FOR ANALYSIS SHOULD BE SENT TO NGB INDUSTRIAL HYGIENE REGION SOUTH IN COLLEGE PARK, GA.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME TELEPHONICALLY AT Non-Responsive OR AT THE ABOVE MENTIONED E-MAIL.

SINCERELY,

Non-Responsive

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: PO Box 3083
Placida, FL 33946
Contact: [redacted]
Phone:
email:
Project Name/#: MSANG - Biloxi Army Firing Range
Samplers Name: George W. Hinchliffe
Sampling Date: 4 Jun 2010

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00-00L	Blank						Ghost Wipe		Lead
00-19L	Blank								
00-01L	Left Wall								
00-02L	Left Wall								
00-03L	Left Wall								
00-04L	Bullet Trap Wall								
00-05L	Bullet Trap Wall								
00-06L	Bullet Trap Wall								
00-07L	Right Wall								
00-08L	Right Wall								
00-09L	Right Wall								
00-10L	Rear Wall								
00-11L	Rear Wall								
00-12L	Rear Wall								
00-13L	Floor								
00-14L	Floor								
00-15L	Floor								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:	[redacted]	Date/Time	7 Jun 10/0830
Received By:	[redacted]	Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

Non-Responsive
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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: Hinchco
Address:
Contact: [redacted]
Phone:
Fax:
Project Name/#: MSARNG-Biloxi Armory-Firing Range
Samplers Name:
Sampling Date: 4 Jun 18

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00-16L	Ceiling						Ghost Wipe		Lead
00-17L	Ceiling								
00-18L	Ceiling								

Turnaround Time: Normal (5 days): ☑ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:		Date/Time	7 Jun/0830
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☑
Method of Shipment: CEPS
Lab Recipient:
Date:

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APPENDIX D

LABORATORY RESULTS

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

June 14, 2010

Non-Responsive
HINCHCO
PO BOX 3083
Placida FL 33946

TEL: Non-Responsive
FAX:

RE: MS Arng - Biloxi Armory Firing Range

Dear Non-Responsive

Order No: 1006805

Analytical Environmental Services, Inc. received 20 samples on 6/9/2010 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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May, 2018

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Hinchco Work Order Number 1006805

Checklist completed by Non-Responsive [redacted] Date 6/9/10

Carrier name: FedEx __ UPS ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 AMBIENT Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc

Date: 14-Jun-10

Lab Order:	1006805
Client:	HINCHCO
Project:	MS Ang - Biloxi Armory Firing Range
Matrix:	Wipe
Date Received:	6/9/2010 10:20:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1006805-001A	00-00L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-002A	00-19L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-003A	00-01L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-004A	00-02L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-005A	00-03L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-006A	00-04L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-007A	00-05L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-008A	00-06L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-009A	00-07L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-010A	00-08L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-011A	00-09L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-012A	00-10L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-013A	00-11L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-014A	00-12L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-015A	00-13L	128	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-016A	00-14L	332	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-017A	00-15L	30	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-018A	00-16L	185	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-019A	00-17L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW
1006805-020A	00-18L	BRL	µg/ft²	20	1		06/04/2010	06/10/2010	MW

Qualifiers: BRL - Not Detected at the Reporting Limit; DF - Dilution Factor

B - Analyte detected in the associated Method Blank

Results are blank corrected where applicable

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APPENDIX E

RANGE PHOTOGRAPH INDEX AND PHOTOGRAPHS

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PHOTOGRAPH INDEX

1. BILOXI ARMORY
2. FIRING RANGE LOOKING TOWARD BULLET TRAP
3. FIRING RANGE LOOKING TOWARD FIRING LINE
4. CEILING VENTILATION SYSTEM
5. VENTILATION LOUVERS BEHIND FIRING LINE
6. CEILING COMPOSITION

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BILOXI RANGE PHOTOGRAPHS

#1 – BILOXI ARMORY

#2 – INDOOR RANGE LOOKING TOWARD BULLET TRAP

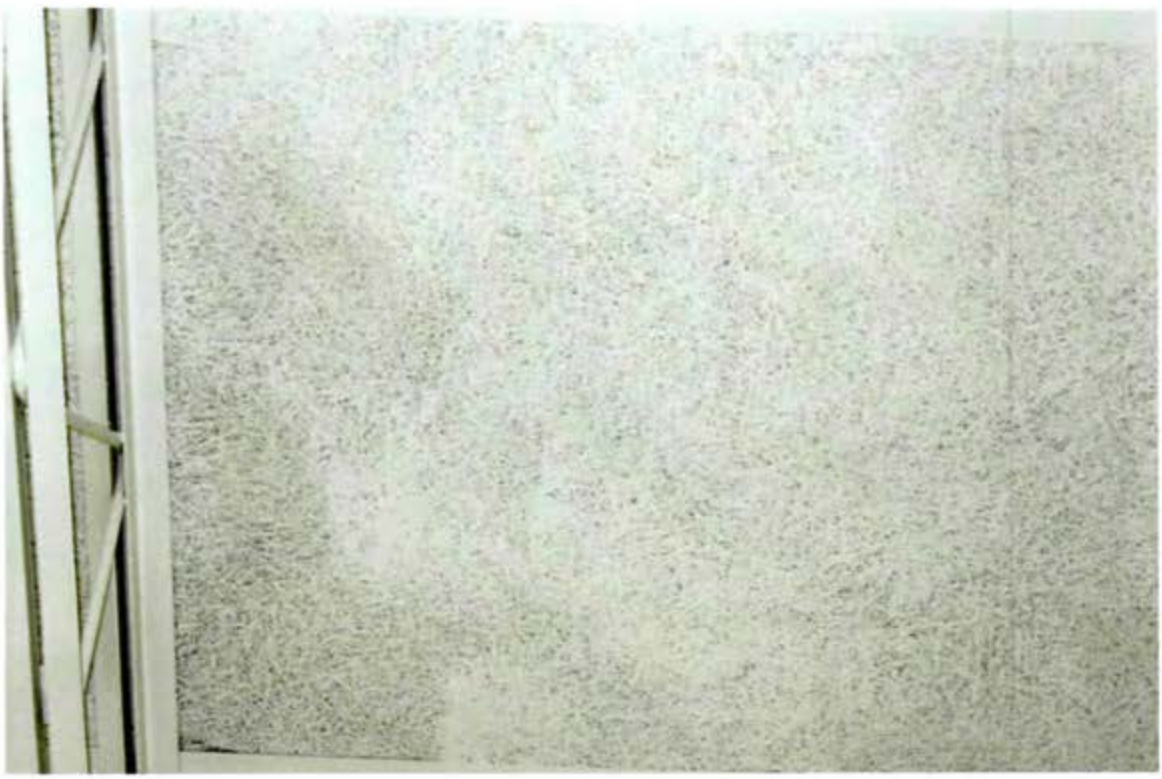
BILOXI RANGE PHOTOGRAPHS

#3 – FIRING RANGE LOOKING TOWARD FIRING LINE

#4 – CEILING VENTILATION SYSTEM

BILOXI RANGE PHOTOGRAPHS

#5 – VENTILATION LOUVERS BEHIND FIRING LINE



#6 – CEILING COMPOSITION

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: Non-Responsive, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for re-application of lead sealant and Status of Lead Sampling, Indoor Firing Range, Booneville, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty sampled were collected and submitted for testing of Total Lead. Of those twenty samples, two blanks were included. One sample returned by Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia contained greater than 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected, three from each surface area for submittal to AES in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Normally this area would be re decontaminated with a sample above 200 µg/ft² before application of the sealant, but sealant was applied and the areas were not sampled before its application therefore a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04. Before re-applying the encapsulation product to protect the area from external re entry of lead dust ensure all ventilation openings of the previous ventilation system are covered by at least a 5 mil plastic sealed around the edges to make it as air tight as possible. Re-sample the area after re-applying the sealant following manufacturer's recommendation.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to re-apply lead sealant in this area, meeting the above requirements is granted.

Non-Responsive

Regional Industrial Hygienist

CF: NGB-ARS-IHSE
Non-Responsive State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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LAE CONSULTING
1218 Scattered Pines Court, Severn, MD, 21144
Tel: (410) 551-2717

21 June 2010

MEMORANDUM FOR: National Guard Bureau Industrial Hygiene Office, Region South, ATTN: Non-Responsive 510 Plaza Drive, Suite 1530, College Park, GA 30349

SUBJECT: Lead Wipe Survey of Booneville Armory's Deactivated Indoor Firing Range, Booneville, Mississippi

1. References.

a. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

b. AR 40-5, Preventive Medicine, 22 July 2005.

c. AR 385-10, 29 February 2000, Army Safety Program.

d. TB MED 503, The Army Industrial Hygiene Program.

e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

f. NG Pamphlet 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (IFRs), 3 November 2006.

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SUBJECT: Lead Wipe Survey of Booneville Armory's Deactivated Indoor Firing Range, Booneville, Mississippi

2. Background. At the request of Non-Responsive of the National Guard Bureau Region south Industrial Hygiene Office, Non-Responsive of LAE Consulting performed Lead wipe sampling in the deactivated Indoor Firing Range (IFR) of the Booneville Armory on 26 May 2010. Ms. Non-Responsive was accompanied by Non-Responsive of the Facility Management office.

3. Purpose. The purpose of this survey was to indicate if the range had been adequately cleaned of Lead.

4. Facility Description. All associated range materials and equipment has been removed. The range had been cleaned and analyzed for Lead months earlier. The walls were encapsulated and painted. The ranges' exhaust grill is present but electrical supply has been cut. The exhaust is located in the ceiling. The exhaust is present and will be removed during a roofing project in the near future. The backstop has since been removed. The supply air grill was located behind the observation room. The observation room has been removed.

5. Sampling Strategy and Laboratory. Wipe samples were obtained from areas indicated on a sampling template received from National Guard Bureau Industrial Hygiene office. Lead wipe samples were analyzed by Analytical Environmental Services, Inc.

6. Findings.

a. Eighteen Lead wipe samples and three blank samples were obtained from areas indicated on the template. One sample was found greater than clearance limit of 200 ug/ft^2. One sample was found above the EPA limit of 40 ug/ft^2. Table 1 below indicates sample locations and results. A copy of the laboratory results are located with in the enclosure of this report.

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SUBJECT: Lead Wipe Survey of Booneville Armory's Deactivated Indoor Firing Range, Booneville, Mississippi

Table 1

Sample #	Sample location	Sample results
Blank-1-COR	BLANK	BRL
LW-01-COR	Bottom Left wall 1.5 feet up and 4 feet from door	BRL
LW-02-COR	Middle left wall 5 feet up	BRL
LW-03-COR	Top Left Wall 7 feet up and 1 foot left of corner	BRL
LW-04-COR	Top Left Bullet Stop 7 feet up and 1 foot from right	98 ug/ft^2
LW-05-COR	Middle Bullet Stop 5 feet up	BRL
LW-06-COR	Bottom Right Bullet Stop 1.5 feet up 2 feet right corner	BRL
LW-07-COR	Top Right Wall7 feet up 1.5 right corner	BRL
LW-08-COR	Middle Right Wall 5.5 feet up	BRL
LW-09-COR	Bottom Right Wall 1.5 feet up 1 foot from supply	BRL
LW-10-COR	Top Rear Wall	BRL
Blank-2-COR	BLANK	BRL
LW-11-COR	Middle Rear Wall	BRL
LW-12-COR	Bottom Rear Wall	BRL
LW-13-COR	Floor Right Bullet stop	BRL
LW-14-COR	Floor Center	BRL
LW-15-COR	Floor Left Rear Wall	28 ug/ft^2
LW-16-COR	Ceiling Left Bullet Stop	8660
LW-17-COR	Ceiling Center	BRL
LW-18-COR	Ceiling Right Rear Wall	BRL
Blank-3-COR	BLANK	BRL

7. Technical Assistance. For technical assistance, regarding information found in this report, please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office, Non-Responsive Non-Responsive

Non-Responsive

2 Encl

1. Photos of Facility
2. Lab results

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SUBJECT: Lead Wipe Survey of Booneville Armory's Deactivated Indoor Firing Range, Booneville, Mississippi

8. Recommendations.

Recommend cleaning the range until clearance samples are below 200 ug/ft^2, if the range is to be converted to an occupied space the range must be cleaned to the EPA clearance standard of 40ug/ft^2 for residual lead dust.

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 03, 2010

Non-Responsive

LAE Consulting
1218 Scattered Pines Ct
Severn MD 21144

TEL: Non-Responsive
FAX: [redacted]

RE: Range Study Booneville Armory

Dear Non-Responsive [redacted]

Order No: 1005N83

Analytical Environmental Services, Inc. received 21 samples on 5/28/2010 10:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]
Project Manager

3785 Presidential Parkway • Atlanta, Georgia 30340 • Tel: (770)457-8177 • FAX: (770)457-8188

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May, 2018

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1005N83

Date: 26 May 10 Page 1 of 2

COMPANY: LAE Consulting

ADDRESS: 1218 Scattered Pines CT Severn, MD 21144

PHONE: [redacted]

FAX: email [redacted]

SAMPLE [redacted]

No.	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED / PRESERVATION (See codes)	REMARKS	No # of Containers
1	BLANK-1	26/05/10		X					
2	LW-01-	"		X					
3	LW-02-	"		X					
4	LW-03-	"		X					
5	LW-04-	"		X					
6	LW-05-	"		X					
7	LW-06-	"		X					
8	LW-07-	"		X					
9	LW-08-	"		X					
10	LW-09-	"		X					
11	LW-10-	"		X					
12	BLANK-2	"		X					
13	LW-11-	"		X					
14	LW-12-	"		X					

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY: [redacted] DATE/TIME

RECEIVED BY: 1: Bus 5/28/10 10:45 DATE/TIME

2:

3:

SPECIAL INSTRUCTIONS/COMMENTS: Deadlines Results in 48/FT2 1FT2 Template GHOST WIPES USED

SHIPMENT METHOD: OUT 26/05/10 VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

PROJECT INFORMATION: PROJECT NAME: Panel Study Bonneville Armory; PROJECT #: ; SITE ADDRESS: 1209 N. 2ND ST Booneville, MS 38829; SEND REPORT TO: LAE Consulting + INVOICE; INVOICE TO: NAB - HQ OFFICE [redacted]; QUOTE #: ; PO#:

RECEIPT: Total # of Containers

Turnaround Time Request: Standard 5 Business Days; 2 Business Day Rush; Next Business Day Rush; Same Day Rush (auth req.); Other

STATE PROGRAM (if any): ; E-mail? Y N; Fax? Y N; DATA PACKAGE: I II III IV [redacted]

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TA[redacted]

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LAE Consulting Work Order Number 1005N83

Checklist completed by [redacted] 5-28-10
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc **Date:** 3-Jun-10

Lab Order: 1005N83
Client: LAE Consulting
Project: Range Study Booneville Armory
Matrix: Wipe
Date Received: 5/28/2010 10:45.00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1005N83-001A	BLANK-1	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-002A	LW-01-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-003A	LW-02-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-004A	LW-03-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-005A	LW-04-	98	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-006A	LW-05	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-007A	LW-06-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-008A	LW-07-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-009A	LW-08-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-010A	LW-09-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-011A	LW-10-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-012A	BLANK-2	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-013A	LW-11-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-014A	LW-12-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-015A	LW-13-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-016A	LW-14-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-017A	LW-15-	28	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-018A	LW-16-	8660	µg/ft²	329	16.46		05/26/2010	06/02/2010	MW
1005N83-019A	LW-17-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-020A	LW-18-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N83-021A	BLANK-3-	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LAE Consulting Work Order Number 1005N83

Checklist completed by [redacted] 5.28.10
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace? No VOA vials submitted ✓	Yes __	No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Client: LAE Consulting
Project: Range Study Booneville Armory
Lab Order: 1005N83

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1005N83-001A	BLANK-1	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-002A	LW-01-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-003A	LW-02-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-004A	LW-03-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-005A	LW-04-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-006A	LW-05	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-007A	LW-06-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-008A	LW-07-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N83-009A	LW-08-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-010A	LW-09-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-011A	LW-10-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-012A	BLANK-2	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-013A	LW-11-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-014A	LW-12-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-015A	LW-13-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-016A	LW-14-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-017A	LW-15-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-018A	LW-16-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-019A	LW-17-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-020A	LW-18-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010
1005N83-021A	BLANK-3-	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/02/2010	06/02/2010

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Analytical Environmental Services, Inc

Date: 3-Jun-10

Client: LAE Consulting
Project Name: Range Study Booneville Armory
Workorder: 1005N83

ANALYTICAL QC SUMMARY REPORT

BatchID: 130208

Sample ID: MB-130208 | Client ID: | Units: ug, Total | Prep Date: 06/01/2010 | Run No: 173011
SampleType: MBLK | TestCode: LEAD ON WIPES (N9100/N7083) | BatchID: 130208 | Analysis Date: 06/02/2010 | Seq No: 3596601

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-130208 | Client ID: | Units: ug, Total | Prep Date: 06/01/2010 | Run No: 173011
SampleType: LCS | TestCode: LEAD ON WIPES (N9100/N7083) | BatchID: 130208 | Analysis Date: 06/02/2010 | Seq No: 3596602

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	942.5	20	957	0	98.5	80	120	0	0	0	

Sample ID: LCSD-130208 | Client ID: | Units: ug, Total | Prep Date: 06/01/2010 | Run No: 173021
SampleType: LCSD | TestCode: LEAD ON WIPES (N9100/N7083) | BatchID: 130208 | Analysis Date: 06/02/2010 | Seq No: 3596604

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	916.8	20	957	0	95.8	80	120	942.5	2.76	25	

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Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc Date: 3-Jun-10

Client: LAE Consulting
Project Name: Range Study Booneville Armory
Workorder: 1005N83

ANALYTICAL QC SUMMARY REPORT

BatchID: 130209

Sample ID: **MB-130209** Client ID: Units: **ug, Total** Prep Date: **06/02/2010** Run No: **173012**
SampleType: **MBLK** TestCode: **LEAD ON WIPES (N9100/N7082)** BatchID: **130209** Analysis Date: **06/02/2010** Seq No: **3596743**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: **LCS-130209** Client ID: Units: **ug, Total** Prep Date: **06/02/2010** Run No: **173012**
SampleType: **LCS** TestCode: **LEAD ON WIPES (N9100/N7082)** BatchID: **130209** Analysis Date: **06/02/2010** Seq No: **3596746**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	923.0	20	957	0	96.4	80	120	0	0	0	

Sample ID: **LCSD-130209** Client ID: Units: **ug, Total** Prep Date: **06/02/2010** Run No: **173012**
SampleType: **LCSD** TestCode: **LEAD ON WIPES (N9100/N7082)** BatchID: **130209** Analysis Date: **06/02/2010** Seq No: **3596749**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	893.4	20	957	0	93.4	80	120	923.0	3.25	25	

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Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC verified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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Down range view of Booneville Armory Range

Up range view of Booneville Armory Range

View of ranges supply air grill

View of range's former exhaust

View of range's former exhaust

View of Lead wipe sample 1, located
on left wall located at the range entrance

View of Lead wipe samples 2 and 14, located
on center of left wall and the floor in the center of the range

View of lead wipe sample 2,
located on the center of the left wall

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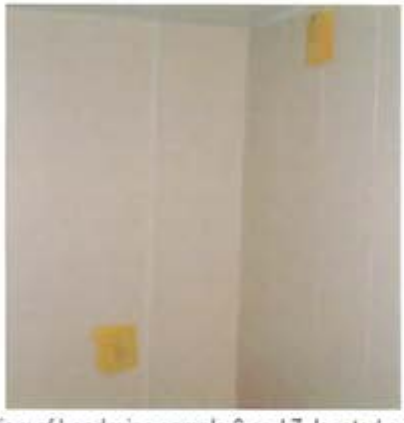
View of Lead wipe samples 3 and 4, located on the left and bullet stop walls of the range

View of Lead wipe sample 5,6, and 13 located on centerand right sides of the bullet stop wall and on the floor



View of Lead wipe sample 6 and 7, located on the bulletstop wall and the right wall of the range

View of Lead wipe sample 8, located on the right wall center in the range

View of Lead wipe sample 9 and 12, located on the right and rear walls of the range

View of Lead wipe sample 11 and 10 located on rear wall of the range

View of Lead wipe sample 10 located on rear wall of the range

View of Lead wipe sample 13, located on the floor of the range

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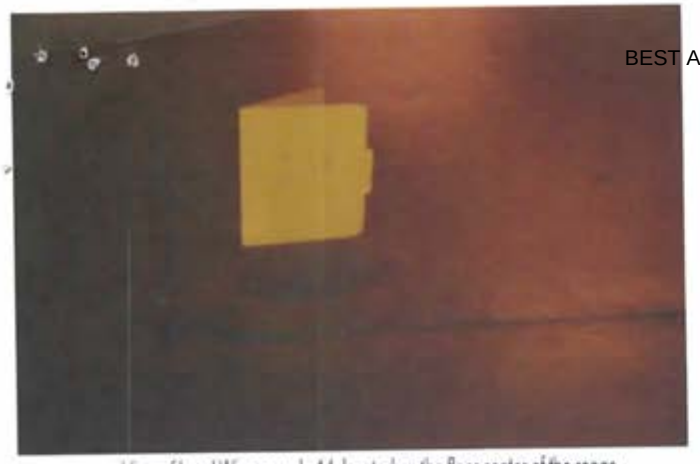

View of Lead Wipe sample 14, located on the floor center of the range

View of Lead Wipe sample 15, located on the floor near the range entrance

View of Lead wipe sample 16, located on the ceiling near the bullet stop and left wall

View of Lead wipe sample 17, located on the ceiling center of the range

View of Lead wipe sample 18, located on the ceiling near the supply air grill

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) July 3, 2012

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: S[redacted] ARNG Brandon Armory, 300 Hwy 468 in Brandon, MS. 39042.

Thru: [redacted], DDS NG MSARNG, 1420 Raymond Road, Box G, Jackson, MS 30204.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Brandon Armory, Brandon, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field

surveys and industrial hygiene sampling at the MS ARNG Brandon Armory, Brandon, Mississippi.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

   a. Have all HHIM data entered into the HHIM computer module.

   b. Use the report to help in correcting all deficiencies noted.

   c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

   d. Contact the State Occupational Health Office, Non-Responsive for any medical Surveillance that may be needed.

   e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:
Non-Responsive State Safety Manager, 1410 Riverside DR, Jackson, MS 39202.
te Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
CFMO MS ARNG, 2497 N. West Street, Jackson, MS 39216.

ENCL.
as

INDUSTRIAL HYGIENE SURVEY REPORT
FOR
MISSISSIPPI ARMY NATIONAL GUARD
(MSARNG)
300 HIGHWAY 468
BRANDON, MS 39042

Thru

Non-Responsive, Region South
Industrial Hygiene Office, 510 Plaza Drive, Suite 1530,
College Park, GA 30348

By:

Non-Responsive
107 Orchard St
Walden, NY 12586
Ph. Non-Responsive

08MAY2012

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau

1.0 INTRODUCTION:

At the request of [redacted] of the National Guard Bureau (ARNG) Region South Industrial Hygiene Office, [redacted] H Surveying Inc. conducted a Baseline Industrial Hygiene Survey and walk through evaluation at the Mississippi ARNG armory located at 300 Hwy 468 in Brandon, MS on May 8, 2012. The purpose of the survey was to evaluate health hazards and controls present in the workplace, collect bulk samples and or wipe samples (if necessary) to determine lead or asbestos exposures, perform illumination, ventilation and noise surveys, and make recommendations regarding health hazards associated with work at the site.

The facility was visually examined and site personnel interviewed regarding work activities, and type of materials/chemicals used during typical/atypical workdays, or stored on site.

Pre and Post Industrial Hygiene survey reports were held with [redacted] who was the assigned POC for the Brandon Armory.

The writer would like to acknowledge the assistance and cooperation extended to him by site's population in general, and takes this opportunity to express his gratitude to all personnel.

2.0 FACILITY DESCRIPTION

This is a one story building which was constructed of concrete blocks with a brick outer layer for walls and concrete flooring throughout. The building contains offices, a conference room, a classroom, a weapons vault, a male and female latrine, a kitchen, a maintenance building, a supply room and utility closet. Floor covering is either carpeting, tiles and or concrete. All walls are either painted or have paneling on them. The POC in charge at the time of the survey was not sure if the armory ever had an indoor firing range.

3.0 INSTRUMENTATION

The following instrumentation and/or sampling media were provided by the contractor and where necessary were used to obtain lead wipe samples, asbestos bulk samples, paint chip samples illumination and noise measurements.

TSI 8551	IAQ Meter	S/N 47116	calibrated on 08/17/2011
EXTECH 401025	Light Meter	S/N L570331	calibrated on 06/02/2011
Quest Q2700	Sound Level Meter	S/N HU3120048	calibrated on 08/05/2011
Quest QC-10	Calibrator w/Adapter	S/N QE4100294	calibrated on 08/05/2011

"Ghost wipes" lead dust wipes no expiration date

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4.0 FINDINGS

4.1 Office Spaces.

Offices spaces are mostly equipped with the same furnishings. Desks, chairs, computer stations and are adjusted for ergonomic balance. While interviewing the employee at the armory that day, it appears that the temperature and humidity were slightly high that day. Most of the offices ACs were turned off due to lack of personnel on duty that day. There were signs of water damage on the walls and ceiling tiles at the time of the survey. Ceiling tiles in some of the offices needed to be replaced due to staining from water damage or just damaged all together.

4.2 Latrines

The latrines seemed in fair condition at the time of the survey. There was a broken drain cover in the men's latrine. This could pose a tripping or hazard.

4.3 Kitchen

The kitchen was in need of general housekeeping. There were old grass clippings on the floor throughout the kitchen. Debris and dead insects could be found along the floor under equipment. This could pose a health hazard and breeding ground for pest.

4.4 Conference Room

The conference room floor had carpeting; the walls were concrete block, covered by paneling. Some ceiling tiles had damage to them from past rains and are in need of repair. There were no signs of mold at the time of this survey.

4.5 Classroom

The classroom was in need of general housekeeping. Some ceiling tiles had damage and stains to them.

4.6 Supply room/utility closet

The supply room needed some general housekeeping. Lead swipe samples were taking in this area, since it is where weapons are issued and access to the vault is obtained. No samples came back above the reporting limit.

4.7 Vault

Lead swipe samples were taking inside and outside the immediate area of the weapons vault. As well as in the drill hall where the weapons were said to be cleaned when there was inclement weather.

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Area Sampled	Result above 20 ug.total
Vault floor	72 ug.total
Vault Door Inside	26 ug.total

4.8 Drill Hall

The facility's drill hall has a concrete floor and concrete block walls. The ceiling is vaulted and has a lining inside. The inside of the roof seemed in fair condition at the time of the survey. Between the lighting fixtures and the numerous windows, illumination standards were met or exceeded for a space this large. Lead swipe samples were taken from different areas of the floor as well as paint chips found on the floor. All sample results were below the reporting limit.

4.9 Maintenance Building/POL

The maintenance building is a brick building. The POC states there in no maintenance performed at this facility other than PMCS. The POL building was in fair shape. There was no MSDS binder evident at the time of the survey. A MSDS binder was found on a barrel inside the drill hall.

5.0 Measurements

5.1 Noise Level

Readings throughout the main facility and the out buildings measured between 50 to 70 decibels "slow A scale". The only measureable noise was the video conference call in session and the background noise that could be heard in the outer buildings.

5.2 Radiation

Not applicable

5.3 Asbestos

No samples were taken at this site.

5.4 Illumination

The average illumination in the offices, conference room and classrooms was 53.6. See the table below for illumination values. These values show that some areas do not meet the recommended illumination standard. The following table reflects foot candle measurements noted during this survey.

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Location		Foot Candles		IES Recommended Values
Offices, classrooms, conference rm		Average 61		50-100
Men's Latrine		Average 24		05/10/10
Ladies latrine		Average 26		05/10/10
Kitchen		Average 30		50/100
Drill Hall		Average 42		10/20/10
Vault		Average 31		10/20/11
Supply Rooms		Average 39		10/20/11
Maintenance Bay		Average 61	Door open	10/20/11

Recommended values from IES Lighting Handbook Application Volume 1987

5.5 Indoor Air Quality (IAQ)

Based on interviews, measurements and observations overall there is no technical or instrumental basis for IAQ concerns in this facility. No evidence of mold, extreme particulate build up or condensation on walls or floors. There are obvious roof leaks. Throughout the building the average temperature was 69.2 (DF) and the average humidity was 34.6. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 60% year round. Elevated humidity could promote growth of mold, bacteria and dust mites which can aggravate allergies and asthma. Carbon dioxide levels were very low and are a measure as to whether adequate volumes of fresh outdoor air are being introduced to indoor air. Outdoor levels of Carbon dioxide are usually 300-400 parts per million and indoor levels should be between 600-800 parts per million. The carbon dioxide levels in this facility did not exceed 530 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment. A maintenance record program of the HVAC system was not in place. There are a few HVAC grates missing along the duct system.

5.6 Ergonomics

Evaluation was on work areas such as computer location, chair type, desk height, line of vision and angles of hands and fingers. Interviews with ARNG members indicated no concerns at this time in this area of the survey.

5.7 Hazardous Materials

Materials used at this armory are standard in most armory sites. Haz-mat inventories are posted appropriately.

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6 Indoor Firing Range

According to the POCs knowledge, this armory has never had an Indoor Firing Range

7 Technical Assistance

For technical assistance regarding information found in this report, please contact Mr. Etienne Rodriguez of the Southeast Regional Industrial Hygiene office at 404-559-4174.

7.1 References

Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA)

AR 40-5, Preventive Medicine, 25 May 2007.

AR 385-10, 29 February 2000, Army Safety Program.

TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, And Biological Exposure Indices (BEI's), 2009, ACGIH, Cincinnati Ohio

Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio

AR 11-34 Army Respiratory Protection Program, 15 February 1990

DA Pam 40-501, Hearing Conservation Program, 10 December 1998

NFPA 10: Standard for Portable Fire Extinguishers

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ATTACHMENT 1

RECOMMENDATIONS

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Based on interviews with the POC and other personnel as well as observations by Erik Miller IH Surveying Inc. staff and IAQ measurements, it appears the overall condition of this facility is in good condition, except for some ceiling tile damage by roof leaks and housekeeping needs.

Numerous ceiling tiles need to be replaced, due to damage ***RAC 3***

Housekeeping and proper storage of supplies needs to be addressed ***RAC 3***

The debris (old cardboard) poses a possible breeding ground for pest and should be cleaned ***RAC 3***

MSDS binder should be located and properly displayed near the Flammable cabinet and POL shed ***RAC 2***

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ATTACHEMENT 2

PHOTOS

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 18, 2012
[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
College Park GA 30349

TEL: [redacted]
FAX:

RE: Brandon Armory

Dear [redacted]

Order No: 1205B15

Analytical Environmental Services, Inc. received 8 samples on 5/11/2012 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770)457-8177 • FAX: (770)457-8188

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May 2015

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205B15

Date: 5/8/12 Page 1 of

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530
College Park GA 30349

PHONE: [redacted]

FAX:

SAMPLE[redacted]

SIGNATU[redacted]

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	001BR050812	5/8/12	1300	X				VAULT FLOOR	
2	002BR050812			X				VAULT WALL	
3	003BR050812			X				VAULT DOOR IN	
4	004BR050812			X				VAULT FLOOR OUT	
5	005BR050812			X				DRILL HOLE FLOOR	
6	006BR050812			X				DRILL HOLE FLOOR	
7	007BR050812	5/8/12	1400	X				DRILL HOLE PAINT	
8	008BR050812	5/8/12	1403	X				BLANK	
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [redacted]	5/8/12	1: [signature]	5/11/12 10:32
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: BRANDON ARMORY
PROJECT #:
SITE ADDRESS: 300 HWY 468 BRANDON MS 39042
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IM OFFICE
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):
E-mail? Y / N: Fax? Y / N
DATA PACKAGE: [ ] I [ ] II [ ] III [ ] IV

SPECIAL INSTRUCTIONS/COMMENTS: [redacted]

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
[ ] CLIENT [ ] FedEx [ ] UPS [ ] MAIL [ ] COURIER
[ ] GREYHOUND [ ] OTHER

SAMPLES RECEIVED AFTER 5PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc

Date: 18 May-12

Lab Order: 1205B15
Client: National Guard Bureau Region-South III
Project: Brandon Armory
Matrix: Wipe
Date Received: 5/11/2012 10:30:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B15-001A	001BR050812	72	ug, Total	20	1		05/08/2012	05/16/2012	MW
1205B15-002A	002BR050812	BRL	ug, Total	20	1		05/08/2012	05/16/2012	MW
1205B15-003A	003BR050812	26	ug, Total	20	1		05/08/2012	05/16/2012	MW
1205B15-004A	004BR050812	BRL	ug, Total	20	1		05/08/2012	05/16/2012	MW
1205B15-005A	005BR050812	BRL	ug, Total	20	1		05/08/2012	05/16/2012	MW
1205B15-006A	006BR050812	BRL	ug, Total	20	1		05/08/2012	05/16/2012	MW
1205B15-008A	008BR050812	BRL	ug, Total	20	1		05/08/2012	05/16/2012	MW

Lab Order: 1205B15
Client: National Guard Bureau Region-South III
Project: Brandon Armory
Matrix: Paint
Date Received: 5/11/2012 10:30:00 AM

TOTAL LEAD IN PAINT (N7082)

PAINT

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B15-007A	007BR050812	BRL	wt%	0.00960	1		05/08/2012	05/16/2012	MW

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

Results are Blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA ARMY National Guard Work Order Number R0SB1S

Checklist completed by Non-Responsive [redacted] 5/14/12
Signature Date

Carrier name: FedEx ✓ UPS __ Courier Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes __ No __ Not Present ✓

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __ BNI 5/14/12

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc

Date: 16-May-12

Client: National Guard Bureau Region-South IH
Project: Brandon Armory
Lab Order: 1205B15

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205B15-001A	001BR050812	5/8/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B15-002A	002BR050812	5/8/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B15-003A	003BR050812	5/8/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B15-004A	004BR050812	5/8/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B15-005A	005BR050812	5/8/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B15-006A	006BR050812	5/8/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B15-007A	007BR050812	5/8/2012 2:00:00PM	Paint	TOTAL LEAD IN PAINT (N7082)		05/16/2012	05/16/2012
1205B15-008A	008BR050812	5/8/2012 2:03:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012

Page 1 of 2
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May, 2018

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 120584

Date: 5/8/12 Page 2 of 2

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530 College Park GA 30349

PHONE: 404-559-4174

FAX:

SAMPLED BY: [redacted]

SIGNATU[redacted]

ANALYSIS REQUESTED: ASBESTOS

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	009BR050812	5/8/12	1430	X				Kitchen Floor	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]	5/8/12	1: [signature]	5/11/12 10:30
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: [redacted]

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER

PROJECT INFORMATION
PROJECT NAME: Brandon Armory
PROJECT #:
SITE ADDRESS: 360 Hwy 468 Brandon MS 39042
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IH Office
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report

AES

NVLAP

Lab ID# 102082-0

17-May-12

Client Name:	**National Guard Bureau Region-South IH**	AES Job Number:	**1205B40**
Project Name:	**Brandon Armory**	Project Number:	

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
009 BR050812 Layer: 1	1205B40-001A	Kitchen Floor	ND	ND	ND	ND	ND	ND	Floor Tile with glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophylite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar noufriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of Standards and Technology for Polarized Light Microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program, Laboratory ID 102082-0. All percentages given are by visually estimated volume. All analyses are performed in accordance with the EPA "Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993." This report must not be reproduced except in full without the approval of Analytical Environmental Service, Inc. These test results apply only to the samples actually tested.

Microanalyst: Non-Responsive [redacted]

QC Analyst: Non-Responsive [redacted]

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May, 2018

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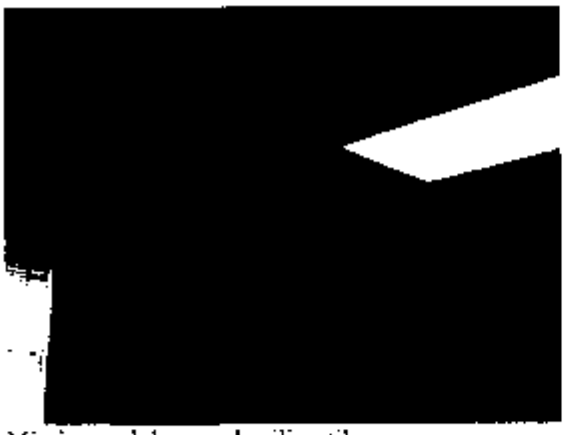
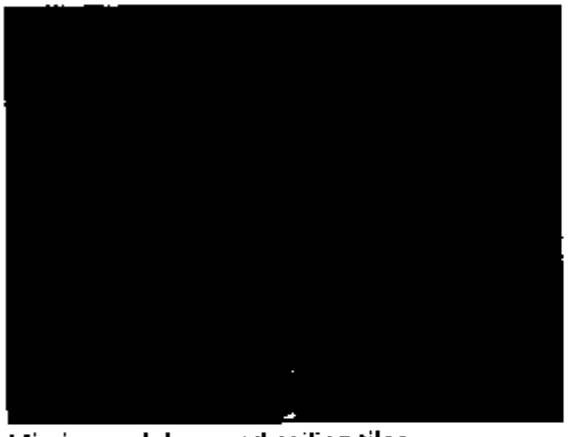
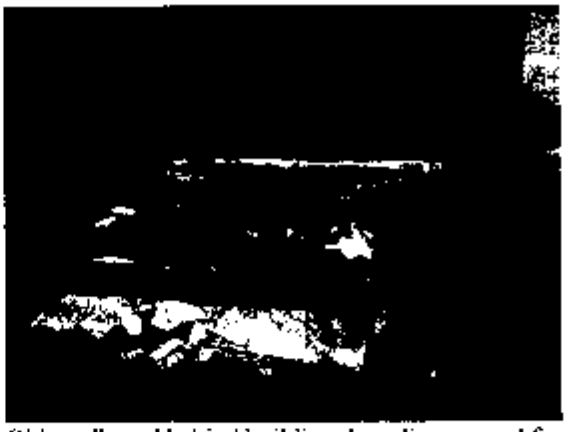


Missing and damaged ceiling tiles



Missing and damaged ceiling tiles

Supply area, general housekeeping



Old cardboard behind building, breeding ground for pest

Parking area

Missing and damaged ceiling tiles

Broken shower drain, potential hazard

Debris and dead insects in kitchen

Old grass clippings in kitchen

MSDS binder layer on barrel, should be hung

Gym

Drill Hall

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI April 24, 2000

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive, MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Canton, MS Armory Indoor Firing Range wipe sample results.

1. References.

   a. 385-10, Army Safety Program

   b. National Guard Regulation, AR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft March 2000

   c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

   d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

   e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range at the Canton, MS Armory by Non-Responsive are enclosed.

3. Findings.

   a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require decontamination of the Canton, MS Armory firing range.

   b. A single wipe blank sample was included in the sample bag. A wipe sample media not used during the sampling but handled in the field exactly the same way as the used media needs to be included for each ten samples taken to document the presence or absence of cross contamination of the sampling media.

4. Recommendations.

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a. To establish a baseline level, prior to decontamination, the sampling needs to be repeated including a blank for each ten samples taken.

b. The sampling results follow the expected pattern of contamination and since no cross contamination is suspected the results can be used to initiate corrective action.

c. To initiate corrective action use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be decontaminated.

ii. determining acceptance of ranges after housekeeping clean up and/or decontamination of a range.

b. Closely follow all recommendations in References 1.b and 1.c when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled housekeeping cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust (see reference 1.c).

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

5. If additional information is needed about industrial hygiene services or lead wipe sample results; please contact Mr. Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, 1- Non-Responsive [redacted]

Non-Responsive [redacted]

Regional Industrial Hygienist

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 12, 2000

[redacted]
GA Army National Guard
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE CANTON, MS ARMORY/ 00003 Order No.: 0004162

Dear [redacted]

Analytical Environmental Services, Inc. received 19 samples on 4/8/00 2:00:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

CC:

3781 PRESIDENTIAL PARKWAY, SUITE 111 • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc.

Date: *12-Apr-00*

CLIENT: GA Army National Guard
Lab Order: 0004162
Project: CANTON, MS ARMORY 00003

Sample ID	Units	Lead
01	µg, Total	22.0
02	µg, Total	47.0
03	µg, Total	114
04	µg, Total	1,340,000
05	µg, Total	244,000
06	µg, Total	174,000
07	µg, Total	52.0
08	µg, Total	< 20
09	µg, Total	< 20
10	µg, Total	< 20
11	µg, Total	194
12	µg, Total	99.0
13	µg, Total	917
14	µg, Total	< 20
15	µg, Total	137
16	µg, Total	< 20
17	µg, Total	< 20
18	µg, Total	< 20
19	µg, Total	< 20

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NATIONAL GUARD

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Non-Responsive

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive IH SPECIALIST

Sampled Installation
INDOOR FIRING RANGE

Project Number
00003

ARLOC

Samples Collected By
Non-Responsive

Date Collected
4 APRIL 00

Date Shipped
5 APRIL 00

Description of Operation
LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
CANTON, MS. ARMORY

Associated Complaints (be specific)
NONE

Associated Air Samples ☐ Yes ☒ No

If Yes, List Sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	BOTTOM LEFT WALL		0004167-1
	2	CENTER LEFT WALL		-2
	3	TOP LEFT WALL		-3
	4	Top Left Bullet Stop End		-4
	5	Middle Bullet Stop End		-5
	6	Bottom Right Bullet Stop End		-6
	7	Top Right Wall		-7

Comments to Lab:

Lab Use Only

Analyst (initials) | Reviewed by (initials) | Date Received | Date Reported

Handcarries Delivered | Authorized

Non-Responsive 4/8/00 14:00 USMAIL

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
00003

ARLOC

Samples Collected by
Non-Responsive

Date Collected
04 APRIL 00

Date Shipped
05 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
CANTON, MS. ARMORY

Associated Complaints (be specific)
NONE

Associated Air Samples — If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Mfr	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	8	Middle Right Wall		-8
	9	Bottom Right Wall		-9
	10	Bottom Rear Wall		-10
	11	MIDDLE FLOOR		-11
	12	Top Rear Wall		-12
	13	Floor Right Bullet Stop		-13
	14	REAR CENTER WALL		-14

Comments to Lab:
[redacted]

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Procedures Non-Responsive **Tests:** 4/8/00 14:00

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted]

Sampling Instrument: INDOOR FIRING RANGE

Project Number: 00003

ARLOC

[redacted]

Date Collected: 04 APRIL 00

Date Shipped: 05 APRIL 00

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location (Bldg/Area): CANTON, MS. ARMORY

Associated Complaints (be specific): NONE

Associated Air Samples: [ ] Yes [X] No — If yes, list sample numbers

Label Information

Trade Name:

Manufacturer:

Address:

MSDS Attached: [ ] Yes [ ] No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	15	Floor Left Rear Wall		-15
	16	Ceiling Left Bullet Stop		-16
	17	Ceiling Center		-17
	18	Ceiling Right Rear Wall		-18
	19	BLANK (CONTROL SAMPLE)		-19
	21			

Comments to Lab: [redacted]

Lab Use Only

Date Received | Date Reported

[redacted] 8/00 14:00

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May, 2018

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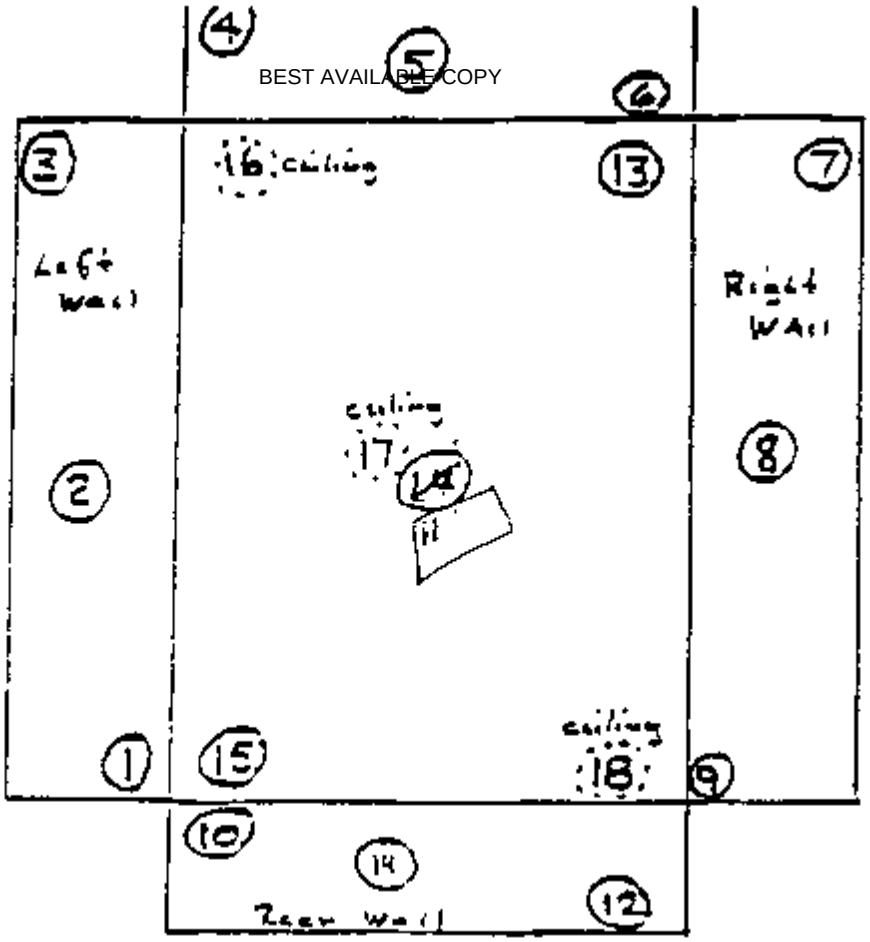

Contents of range sample

1. range sampling diagram
2. bulk sample data form
3. sampling swabs
4. distilled water
5. bulk sample container
6. treatment gloves

WALL

CEILING

FLOOR

1. Eighteen samples per rifle range will be taken.

   a. samples will be taken utilizing a 3"x 3" template.
   b. smear tabs will be moistened only with distilled water.
   c. samples are to be numbered and taken in correlation with the above diagram.
   d. each smear tab will be placed separately in a small, numbered plastic bag.

2. If property or equipment is being stored in the range take appropriate amount of samples not to exceed 15 each. Continue with the numbering system.

3. Bulk sample form [illegible] completed and placed [illegible]

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client Name GA ARMY NATL GUARD

Date and Time Receive 4/8/00 2:00:00 PM

Work Order Numbe [redacted] Non-Responsive

Received by MMY

Checklist completed b [redacted] 4-8-2000 Date

Reviewed by [redacted] Non-Responsive Initials 4-10-00 Date

Matrix

Carrier name Std US Mail

	Yes	No	Not Presen
Shipping container/cooler in good condition?	✔		
Custody seals intact on shippping container/cooler?			✔
Custody seals intact on sample bottles?			✔
Chain of custody present?	✔		
Chain of custody signed when relinquished and received?	✔		
Chain of custody agrees with sample labels?	✔		
Samples in proper container/bottle?	✔		
Sample containers intact?	✔		
Sufficient sample volume for indicated test?	✔		
All samples received within holding time?	✔		
Container/Temp Blank temperature in compliance?	✔		
Water - VOA vials have zero headspace?	No VOA vials submitted ✔	Yes	No
Water - pH acceptable upon receipt?	✔		

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

July 3, 2012

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: [redacted] ARNG Armory 2924 Hwy 51 South, Canton, MS 39406.

Thru: [redacted] DDS NG MSARNG, 1420 Raymond Road, Box G, Jackson, MS 30204.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Canton Armory, Canton, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field

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surveys and industrial hygiene sampling at the MS ARNG Canton Armory, Canton, Mississippi.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

1. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

   a. Have all HHIM data entered into the HHIM computer module.

   b. Use the report to help in correcting all deficiencies noted.

   c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

   d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

   e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]

Non-Responsive [redacted]
Regional Industrial Hygienist

CF:
Non-Responsive [redacted] ate Safety Manager, 1410 Riverside DR, Jackson, MS 39202.
[redacted] Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
CFMO MS ARNG, 2497 N. West Street, Jackson, MS 39216.

ENCL.
as

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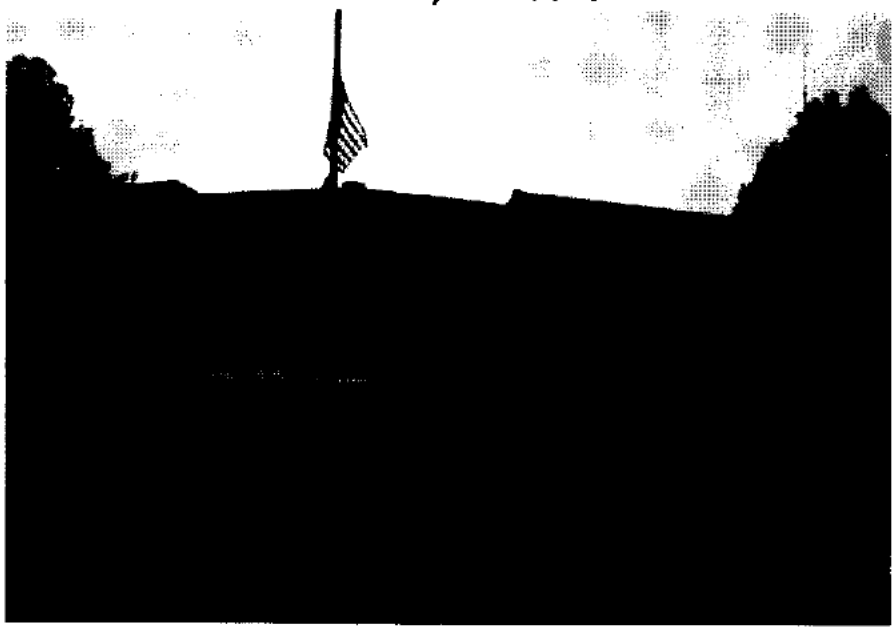
INDUSTRIAL HYGIENE SURVEY REPORT
FOR
Non-Responsive [redacted]C)
MISSISSIPPI ARMY NATIONAL GUARD
(MSARNG)
2924 Hwy 51 South
CANTON, MS 39046



Thru

Non-Responsive [redacted]Region South
Industrial Hygiene Office, 510 Plaza Drive, Suite 1530,
College Park, GA 30348

By:

Non-Responsive [redacted]IHT
[redacted]eying, Inc.
107 Orchard St
Walden, NY 12586
Ph. Non-Responsive [redacted]

07MAY2012

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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1.0 INTRODUCTION:

At the request of Non-Responsive of the National Guard Bureau (ARNG) Region South Industrial Hygiene Office, Non-Responsive IH Surveying Inc. conducted a Baseline Industrial Hygiene Survey and walk through evaluation at the Mississippi ARNG armory located at 2924 Hwy 51 South, Canton, MS 39406 on May 7th, 2012. The purpose of the survey was to evaluate health hazards and controls present in the workplace, collect bulk samples and or wipe samples (if necessary) to determine lead or asbestos exposures, perform illumination, ventilation and noise surveys, and make recommendations regarding health hazards associated with work at the site.

The facility was visually examined and site personnel interviewed regarding work activities, and type of materials/chemicals used during typical/atypical workdays, or stored on site.

Pre and Post Industrial Hygiene survey reports were held with Non-Responsive who was the assigned POC for the Canton Armory.

The writer would like to acknowledge the assistance and cooperation extended to him by site's population in general, and takes this opportunity to express his gratitude to all personnel.

2.0 FACILITY DESCRIPTION

This is a one story building which was constructed of concrete blocks with a brick outer layer for walls and concrete flooring in most areas. The building contains numerous offices, a conference room, classrooms, two weapon vaults, two male and female latrines, a kitchen, a maintenance building, a supply room and utility closet. Flooring throughout the building is a combination of carpeting, tiles and concrete. All walls are either painted or have paneling on them. According to the POC, there was an Indoor Firing Range at this facility, now being used for storage.

3.0 INSTRUMENTATION

The following instrumentation and/or sampling media were provided by the contractor and where necessary were used to obtain lead wipe samples, asbestos bulk samples, paint chip samples illumination and noise measurements.

TSI 8551	IAQ Meter	S/N 47116	calibrated on 08/17/2011
EXTECH 401025	Light Meter	S/N L570331	calibrated on 06/02/2011
Quest Q2700	Sound Level Meter	S/N HU3120048	calibrated on 08/052011
Quest QC-10	Calibrator w/Adapter	S/N QE4100294	calibrated on 08/05/2011
"Ghost wipes" lead dust wipes		no expiration date	

4.0 FINDINGS

4.1 Office Spaces.

Offices spaces are mostly equipped with the same furnishings. Desks, chairs, computer stations and are adjusted for ergonomic balance. While interviewing the employees at the armory that day, it appears that the temperature and humidity are satisfactory working conditions. There is no sign of mold or water damage on the floors or walls. The HVAC system effectively monitors and controls temperature and humidity. The offices appeared to be neat and orderly. At the time of the survey very few ceiling tiles needed to be replaced due to staining or damage.

4.2 Latrines/Locker rooms

The bathrooms seemed in fair condition at the time of the survey. No outstanding issues needed to be addressed. In one locker room, the second exit was blocked by numerous pieces of furniture. The exit needs to be cleared of obstacles.

4.3 Kitchen

The kitchen was in need of general housekeeping. Debris and dirt could be seen under kitchen equipment. This could pose as a breeding ground for pest in the future, causing a possible health hazard later on.

4.4 Conference Room

The conference room floor had carpeting, the walls were concrete block. There was a large table, chairs located in the conference room. At the time of the survey the room appeared to be updated and in good appearance. There were no signs damaged ceiling tiles or of mold.

4.5 Classrooms

The classrooms floor had carpeting; the walls were concrete block painted. The classroom was in need of general housekeeping. There were no damaged ceiling tiles and no chipping paint at the time of the survey.

4.6 Supply rooms/Utility closets

The supply rooms needed some general housekeeping. These were the areas right off of the weapons vault and therefore lead swipe samples were taking in this area. Swipe samples taken from this area came up below reporting limits.

Utility closets need general housekeeping. A flammable cabinet that was stored in one closet had mops, brooms and buckets blocking it. This should be addressed.

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4.7 Vault

There are two weapon vaults at Canton. Lead swipe samples were taking inside and outside the immediate area of the weapon vaults. The following areas were reported to have readings above the reporting limit of 20ug.total.

Area Sampled for Lead	Result above 20 ug.total
155th vault floor	28 ug.total
112th vault floor	28 ug.total
112th counter outside weapon vault	23 ug.total

4.8 Drill Hall

The facility's drill hall has a concrete floor and concrete block walls. At the time of the survey the ceiling appeared in good shape, clean, with no signs of breakdown or stress. Between the lighting fixtures and the bright painted walls, illumination standards were met or exceeded for a space this large. Lead swipe samples were taken from different areas of the floor due to weapons being cleaned on the drill hall floor. All samples came back below reporting limits.

4.9 Maintenance Building

The maintenance building is a 5 bay sheet metal building. The POC states there in no maintenance performed at this facility other than PMCS. The building is used to store equipment. At the time of the survey it appeared to be in good condition and the inside was organized.

5.0 Measurements

5.1 Noise Level

Readings throughout the main facility and the out buildings measured between 50 to 70 decibels "slow A scale". The only measureable noise was the video conference call in session and the background noise that could be heard in the outer buildings.

5.2 Radiation

Not applicable

5.3 Asbestos

Asbestos samples were taken from fraying pipe insulation in the men's latrine. Results were found to be negative.

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5.4 Illumination

The average illumination in the offices, conference room and classrooms was 53.6. See the table below for illumination values. These values show that some areas do not meet the recommended illumination standard. The following table reflects foot candle measurements noted during this survey.

Location		Foot Candles		IES Recommended Values
Offices, classrooms, conference rm		Average60		50-100
Men's Latrine		Average 20		05/10/10
Ladies latrine		Average 23		05/10/10
Kitchen		Average 30		50/100
Drill Hall		Average 43		10/20/10
Vault		Average 30		10/20/11
Supply Rooms		Average 32		10/20/11
Maintenance Bay		Average 77	With doors open	10/20/11

Recommended values from IES Lighting Handbook Application Volume 1987

6.0 Indoor Air Quality (IAQ)

Based on interviews, measurements and observations overall there is no technical or instrumental basis for IAQ concerns in this facility. No evidence of mold, extreme particulate build up or condensation on walls or floors. There are obvious roof leaks. Throughout the building the average temperature was 74.2 (DF) and the average humidity was 53.2. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 60% year round. Elevated humidity could promote growth of mold, bacteria and dust mites which can aggravate allergies and asthma. Carbon dioxide levels were very low and are a measure as to whether adequate volumes of fresh outdoor air are being introduced to indoor air. Outdoor levels of Carbon dioxide are usually 300-400 parts per million and indoor levels should be between 600-800 parts per million. The carbon dioxide levels in this facility did not exceed 466 parts per million on average. The ventilation system is in good working condition and maintains a comfortable working environment.

6.1 Ergonomics

Evaluation was on work areas such as computer location, chair type, desk height, line of vision and angles of hands and fingers. Interviews with ARNG members indicated no concerns at this time in this area of the survey.

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6.2 Hazardous Materials

Materials used at this armory are standard in most armory sites. Haz-mat inventories are posted appropriately. MSDS binders were available.

7.0 Indoor Firing Range

This facility had an indoor firing range that is now a storage unit. Lead swipe samples were taken in this area and the results are listed below.

Area Sampled	Results for Above reporting limit of 20ug.total
Indoor firing range floor by entrance	110 ug
Indoor firing range floor furthest from entrance	204 ug

8.0 Technical Assistance

For technical assistance regarding information found in this report, please contact Mr. Etienne Rodriguez of the Southeast Regional Industrial Hygiene office at 404-559-4174.

8.1 References

Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA)

AR 40-5, Preventive Medicine, 25 May 2007.

AR 385-10, 29 February 2000, Army Safety Program.

TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, And Biological Exposure Indices (BEI's), 2009, ACGIH, Cincinnati Ohio

Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio

AR 11-34 Army Respiratory Protection Program, 15 February 1990

DA Pam 40-501, Hearing Conservation Program, 10 December 1998

NFPA 10: Standard for Portable Fire Extinguishers

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ATTACHMENT 1

RECOMMENDATIONS

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Based on interviews with the POC and other personnel as well as observations by Erik Miller IH Surveying Inc. staff and IAQ measurements, it appears the overall condition of this facility is in good condition. The armory is bright, clean and appears well maintained for the most part. The issues below should be addressed.

The weapon vaults and supply area that used to be an Indoor firing range needs to be addressed due to high lead levels.	***RAC 1***
Housekeeping needs to be addressed in the kitchen area	***RAC 3***
Doorways need to be cleared of obstacles	***RAC 1***
Ceiling tiles that are damaged need to be replaced	***RAC 3***

ATTACHEMENT 3

PHOTOS

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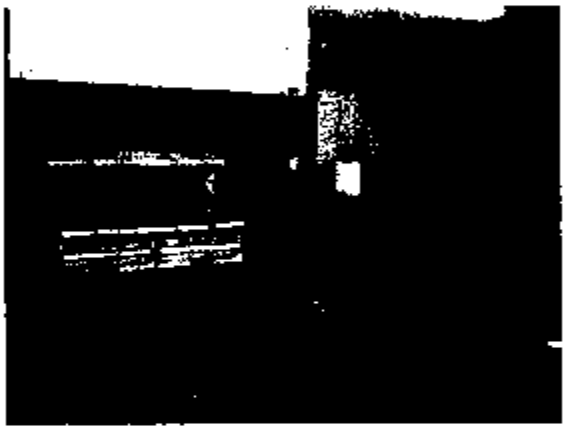
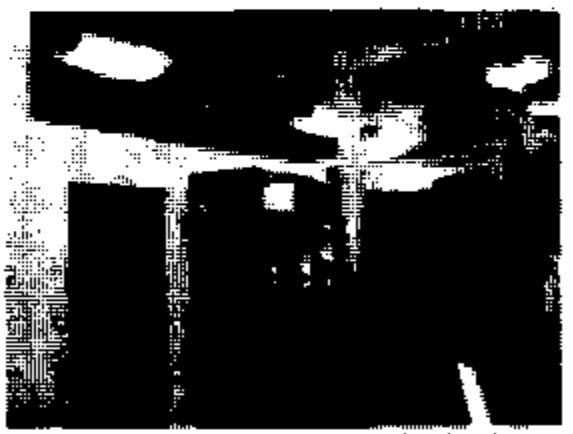
General housekeeping needed in kitchen area, under equipment and reefers

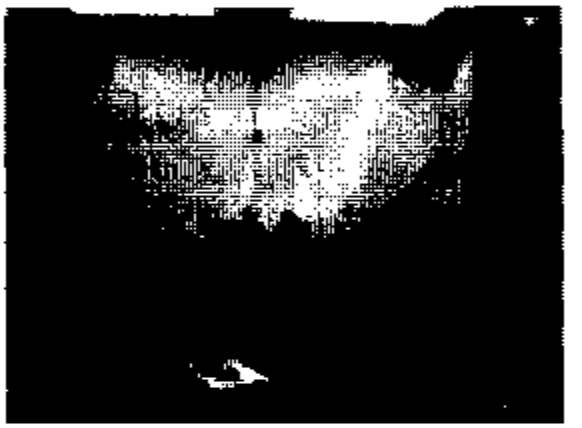


General housekeeping needed in kitchen area, under equipment and reefers



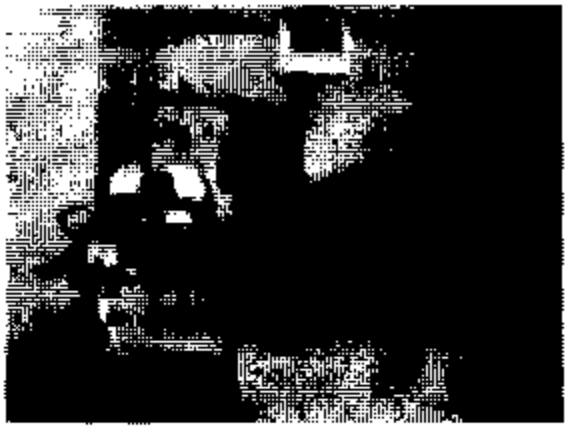
Supply area near weapons vault: lead swipe samples taken

Furniture blocking exit from locker room

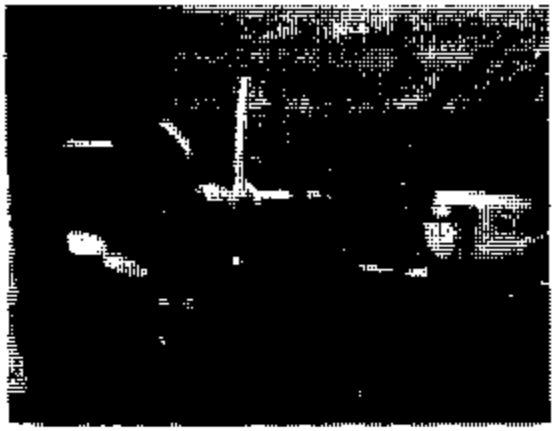


Conference Room

HHC Orderly room

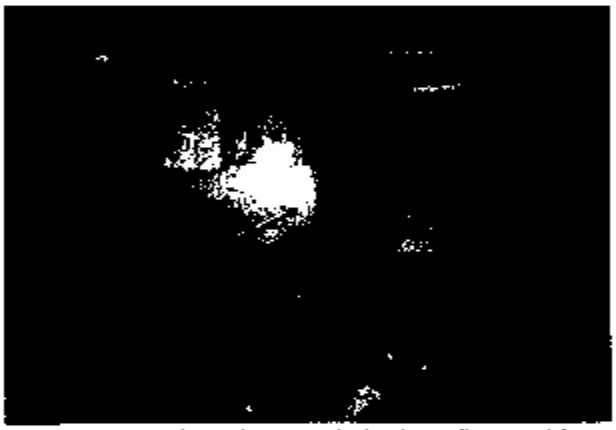


Gym: Clean and orderly



Janitor closet disorderly and blocking flammable cabinet

POL Clean and organized: Fire extinguishers haven't been inspected



Janitor closet disorderly and blocking flammable cabinet

Cold storage: clean and organized

Drill hall: lead swipe samples taken

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 18, 2012
[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Atlanta GA 30349

TEL: [redacted]
FAX: [redacted]

RE: Canton Armory

Dear [redacted]

Order No: 1205B07

Analytical Environmental Services, Inc. received 16 samples on 5/11/2012 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

[redacted]
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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May, 2018
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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205B35

Date: 5/8/12 Page 3 of 3

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530 College Park GA 30349

PHONE: [redacted] Non-Responsive

FAX:

SAMPL[redacted]

SIGNATUR[redacted] Non-Responsive

ANALYSIS REQUESTED: ASBESTOS

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	REMARKS	No # of Containers
1	C17 CAN C50812	5/8/12	1200	X			Pipe Mens Lat.	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

[redacted] Non-Responsive

DATE/TIME: 5/11/12 10:30

3:

3:

SPECIAL INSTRUCTIONS/COMMENTS:

Please email results to [redacted] Non-Responsive

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

☐ CLIENT ☑ FedEx ☐ UPS ☐ MAIL ☐ COURIER

☐ GREYHOUND ☐ OTHER

PROJECT INFORMATION

PROJECT NAME: CANTON ARMORY

PROJECT #:

SITE ADDRESS: SOUTH LIBERTY CANTON, MS 39046

SEND REPORT TO: NGB

INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IA OFFICE

QUOTE #: PO#:

RECEIPT

Total # of Containers

Turnaround Time Request

☑ Standard 5 Business Days

☐ 2 Business Day Rush

☐ Next Business Day Rush

☐ Same Day Rush (auth req.)

☐ Other

STATE PROGRAM (If any):

E-mail? Y/N: Fax? Y/N

DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report

AES

NVLAP

Lab ID# 102082-0

17-May-12

Client Name:	**National Guard Bureau Region-South IH**	AES Job Number:	**1205B35**
Project Name:	**Canton Armory**	Project Number:	

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
017 CAN 050812 Layer: 1	1205B35-001A	Pipe Hens Lat.	ND	ND	ND	ND	ND	ND	Paint included as binder
017 CAN 050812 Layer: 2	1205B35-001A	Pipe Hens Lat.	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophylite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of Standards and Technology for Polarized Light Microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program, Laboratory ID 102082-0. All percentages given are by visually estimated volume. All analyses are performed in accordance with the EPA "Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993." This report must not be reproduced except in full without the approval of Analytical Environmental Service, Inc. These test results apply only to the samples actually tested.

Microanalyst: Non-Responsive [redacted]

QC Analyst: Non-Responsive [redacted]

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Analytical Environmental Services, Inc

Date: 18-May-12

Lab Order: 1205B07
Client: National Guard Bureau Region-South IH
Project: Canton Armory
Matrix: Wipe
Date Received: 5/11/2012 10:30:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B07-001A	001CAN050812 155TH	28	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-002A	002CAN050812 155TH	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-003A	003CAN050812 155TH	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-004A	004CAN050812 155TH	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-005A	005CAN050812	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-006A	006CAN050812	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-007A	007CAN050812	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-008A	008CAN050812 112TH	28	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-009A	009CAN050812 112TH	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-010A	010CAN050812 112TH	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-011A	011CAN050812 112TH	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-012A	012CAN050812	110	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-013A	013CAN050812	23	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-014A	014CAN050812	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-015A	015CAN050812	204	ug, Total	20	1		05/08/2012	05/15/2012	MW
1205B07-016A	016CAN050812	BRL	ug, Total	20	1		05/08/2012	05/15/2012	MW

Qualifiers: BRL - Not Detected at the Reporting Limit; DF - Dilution Factor

B - Analyte detected in the associated Method Blank

Results are Blank corrected where applicable

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May, 2018

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 12DSB07

Date: 5/8/12 Page 1 of 2

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530 College Park GA 30349

PHO[redacted] Non-Responsive

FAX:

SAM[redacted]

SIGNATUR[redacted] Non-Responsive

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	001 CAN 050812 155TH	5/8/12	0700	X				VAULT FLOOR 155TH	
2	002 CAN 050812 155TH			X				VAULT WALL 155TH	
3	003 CAN 050812 155TH			X				VAULT DOOR IN 155TH	
4	004 CAN 050812 155TH			X				COUNTER OUTSIDE	
5	005 CAN 050812			X				DRILL HALL FLR	
6	006 CAN 050812			X				DRILL HALL FLR	
7	007 CAN 050812			X				DRILL HALL FLR	
8	008 CAN 050812 112TH			X				VAULT FLOOR	
9	009 CAN 050812 112TH			X				VAULT WALL	
10	010 CAN 050812 112TH			X				VAULT DOOR IN	
11	011 CAN 050812 112TH			X				VAULT DOOR OUT	
12	012 CAN 050812			X				IFR FLOOR	
13	013 CAN 050812			X				COUNTER 112TH	
14	014 CAN 050812	5/8/12	0915	X				IFR WALL	

RELINQUISHED BY DATE/TIME: [redacted] Non-Responsive

RECEIVED BY DATE/TIME:
1: [redacted] Non-Responsive 5/11/12
2: 10:30
3:

PROJECT INFORMATION
PROJECT NAME: CANTON ARMORY
PROJECT #:
SITE ADDRESS: [redacted]TH LIBERTY CANTON, MS 39046
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IH OFFICE
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: [ ] I [ ] II [ ] III [ ] IV

SPECIAL INSTRUCTIONS/COMMENTS:
Please email results to [redacted] Non-Responsive

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
[ ] CLIENT [x] FedEx [ ] UPS [ ] MAIL [ ] COURIER
[ ] GREYHOUND [ ] OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205B07

Date: 5/8/12 Page 2 of 3

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530 College Park GA 30349

PHONE: [redacted]

FAX:

SAMPLE [redacted]

SIGNATURE [redacted]

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	015CAN050812	5/8/12	0930	+				IFR Floor Supply	
2	016CAN0812	5/8/12	0940	+				IFR floor	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

		DATE/TIME
1:	[redacted]	5/11/12 10:5
2:		
3:	3:	

SPECIAL INSTRUCTIONS/COMMENTS:
Please email results to [redacted]

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
☐ CLIENT ☑ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER

PROJECT INFORMATION
PROJECT NAME: Canton Armory
PROJECT #:
SITE ADDRESS: South Liberty Canton, MS 39046
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IH Office
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other

STATE PROGRAM (if any):
E-mail? Y/N. Fax? Y/N
DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA ARMY National Guard Work Order Number 1205B07

Checklist completed by [redacted] Non-Responsive 5/14/12
Sig[redacted] Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes __ No __ Not Present ✓

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? ~~(4°C±2)*~~ 8/11 5/14/12 Yes ✓ No __

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes ✓ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc

Date: 18-May-12

Client: National Guard Bureau Region-South IH
Project: Canton Armory
Lab Order: 1205B07

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205B07-001A	001CAN050812 155TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-002A	002CAN050812 155TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-003A	003CAN050812 155TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-004A	004CAN050812 155TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-005A	005CAN050812	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-006A	006CAN050812	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-007A	007CAN050812	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-008A	008CAN050812 112TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-009A	009CAN050812 112TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-010A	010CAN050812 112TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-011A	011CAN050812 112TH	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-012A	012CAN050812	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-013A	013CAN050812	5/8/2012 7:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-014A	014CAN050812	5/8/2012 9:15:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-015A	015CAN050812	5/8/2012 9:30:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B07-016A	016CAN050812	5/8/2012 9:40:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive Non-Responsive MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Canton, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by SSG. Patricia Jones are enclosed.

3. Findings.

a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Canton, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive COMMERCIAL Non-Responsive

Non-Responsive

Regional Industrial Hygienist

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 10, 2002

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: Non-Responsive
FAX [redacted]

RE: Canton, MS

Order No.: 0205127

Dear Non-Responsive

Analytical Environmental Servs, Inc. received 20 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive
[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL.: (770) 457-8177 • FAX: (770) 457-8188

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BULK SAMPLE DATA

For use of ~~this form~~ USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)	Point of Contact (name/AUTOVON)
NGB-AVN-SI 510 PLAZA DR SUITE 1530 [illegible]	Non-Responsive [redacted] SPECIALIST

Sampled Installation	Project Number	ARLOC
[illegible] RANGE	06	

Sampled Facility	Date Collected	Date Shipped
Non-Responsive [redacted]	27 APRIL 2002	30 APRIL 2002

Description of Operation	Location (BLDG/AREA)
LEAD SAMPLING OF INDOOR FIRING RANGE	HQ [illegible] MP BN CANTON, MS

Associated Complaints (be specific):

NONE

Associated Air Samples ☐ Yes ☒ No — If yes, list sample numbers

Label Information

Trade Name	[illegible]	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired

LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
001	1	BOTTOM LEFT WALL		
002	2	CENTER LEFT WALL		
003	3	TOP LEFT WALL		
004	4	Top Left Bullet Stop End		
005	5	Middle Bullet Stop End		
006	6	Bottom Right Bullet Stop End		
007	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Procedures Performed	Comments
	Received Non-Responsive [redacted] 30

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0205127

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530

Point of Contact (name/AUTOVON)
[redacted]

[illegible] FIRING RANGE	06	
[redacted]	Date Collected: 26 MAR 2002	Date Shipped: 30 MAR 2002
[illegible] SAMPLING OF FIRING RANGE		Location (BLDG/AREA): HQ 112th MP BN CANTON, MS.

Associated Complaints (be specific):
NONE

Associated Air Samples — If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Name	Manufacturer
Address		MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
008	8	Middle Right Wall		
009	9	Bottom Right Wall		
010	10	Bottom Rear Wall		
011	11	MIDDLE FLOOR		
012	12	Top Rear Wall		
013	13	Floor Right Bullet Stop		
014	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed By (Initials)	Date Received	Date Reported
Procedures Performed	Remarks:		

[redacted]

0205127

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

[illegible] (or [illegible] including Zip Code) | [redacted]

AVN-SI

[redacted] | Project [illegible] | [illegible]

[redacted] | Date Collected: 26 APRIL 2002 | Date Shipped: 30 APRIL 2002

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA): HQ 112th MP BN CANTON, MS 39

Associated Complaints (be specific):

Associated Air Samples: ☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name	[illegible]	Manufacturer
Address		MSDS Attached ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
015	15	Floor Left Rear Wall		
016	16	Ceiling Left Bullet Stop		
017	17	Ceiling Center		
018	18	Ceiling Right Rear Wall		
-019	21			

Comments to Lab:

Lab Use Only

[illegible]	Reviewed by [illegible]	Date Received	Date Reported
[illegible]	Comments:		

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client NATIONAL GUARD BUREAU

Work Order Number 0205127

Date and Time 5/4/02 12:30

Received by [redacted]

[redacted]

Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes ____ No __ N/A

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: No TAT * 2 Blank Samples submitted and not on COC. * Sample 13 and Sample 14 are not submitted. Per client history, analyze the blank samples, omit the missing samples and proceed with a standard TAT.

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

Project: Canton, MS
Project No: Canton MS
PO No:

Date Received: 5/4/02 12:50:00
Matrix: Wipe
Analyst: [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205127-001A	1	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-002A	2	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-003A	3	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-004A	4	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-005A	5	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-006A	6	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-007A	7	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-008A	8	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-009A	9	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-010A	10	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-011A	11	103	µg, Total	20.0	1	4/26/02	5/9/02
0205127-012A	12	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-015A	15	182	µg, Total	20.0	1	4/26/02	5/9/02
0205127-016A	16	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-017A	17	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-018A	18	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-019A	Blank 1	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205127-020A	Blank 2	BRL	µg, Total	20.0	1	4/26/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) July 3, 2012

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive ARNG Clinton Armory, East North side Drive in Clinton, MS. 39056.

Thru: Non-Responsive DDS NG MSARNG, 1420 Raymond Road, Box G, Jackson, MS 30204.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Clinton Armory, Clinton, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field

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surveys and industrial hygiene sampling at the MS ARNG Clinton Armory, Clinton, Mississippi.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

   a. Have all HHIM data entered into the HHIM computer module.

   b. Use the report to help in correcting all deficiencies noted.

   c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

   d. Contact the State Occupational Health Office, Non-Responsive for any medical Surveillance that may be needed.

   e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:
Non-Responsive tate Safety Manager, 1410 Riverside DR, Jackson, MS 39202.
e Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
CFMO MS ARNG, 2497 N. West Street, Jackson, MS 39216.

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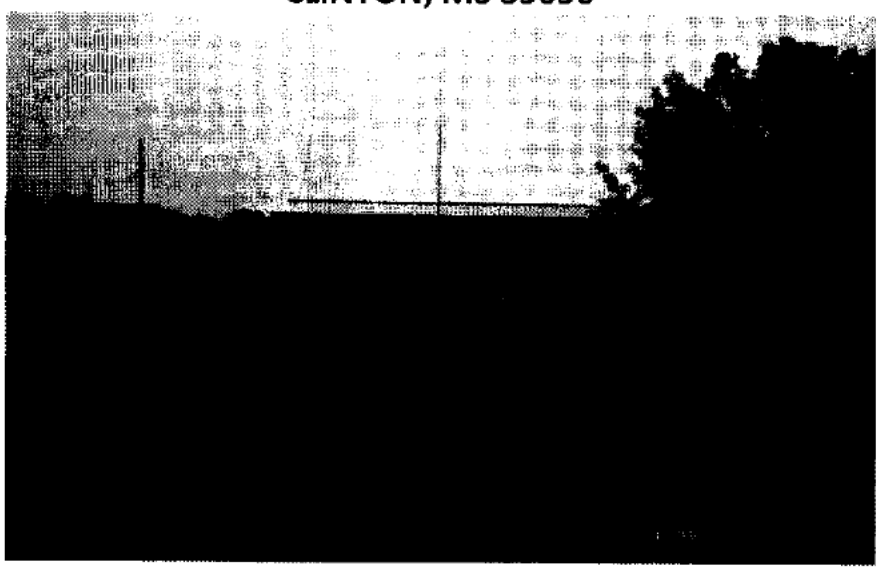
INDUSTRIAL HYGIENE SURVEY REPORT
FOR
Non-Responsive
MISSISSIPPI ARMY NATIONAL GUARD
(MSARNG)
1500 EAST NORTHSIDE DR
CLINTON, MS 39056



Thru

Non-Responsive
Industrial Hygiene Office, 510 Plaza Drive, Suite 1530,
College Park, GA 30348

By:

Non-Responsive IHT
eying, Inc.
107 Orchard St
Walden, NY 12586
Ph. Non-Responsive

07MAY2012

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1.0 INTRODUCTION:

At the request of [redacted] of the National Guard Bureau (ARNG) Region South Industrial Hygiene Office, [redacted] IH Surveying Inc. conducted a Baseline Industrial Hygiene Survey and walk through evaluation at the Mississippi ARNG armory located at 1500 East North side Drive in Clinton, MS. on May 7, 2012. The purpose of the survey was to evaluate health hazards and controls present in the workplace, collect bulk samples and or wipe samples (if necessary) to determine lead or asbestos exposures, perform illumination, ventilation and noise surveys, and make recommendations regarding health hazards associated with work at the site.

The facility was visually examined and site personnel interviewed regarding work activities, and type of materials/chemicals used during typical/atypical workdays, or stored on site.

Pre and Post Industrial Hygiene survey reports were held with SFC Morgan who was the assigned POC for the Clinton Armory.

The writer would like to acknowledge the assistance and cooperation extended to him by site's population in general, and takes this opportunity to express his gratitude to all personnel.

2.0 FACILITY DESCRIPTION

This is a one story building which was constructed of concrete blocks with a brick outer layer for walls and concrete flooring in most areas. The building contains four offices, a conference room, a classroom, a weapons vault, a male and female latrine, a kitchen, a maintenance building, a supply room and utility closet. Flooring throughout the building is a combination of carpeting, tiles and concrete. All walls are either painted or have paneling on them. According to the POC, there is an indoor firing range at this facility, but now it is being used for storage.

3.0 INSTRUMENTATION

The following instrumentation and/or sampling media were provided by the contractor and where necessary were used to obtain lead wipe samples, asbestos bulk samples, paint chip samples illumination and noise measurements.

TSI 8551	IAQ Meter	S/N 47116	calibrated on 08/17/2011
EXTECH 401025	Light Meter	S/N L570331	calibrated on 06/02/2011
Quest Q2700	Sound Level Meter	S/N HU3120048	calibrated on 08/052011
Quest QC-10	Calibrator w/Adapter	S/N QE4100294	calibrated on 08/05/2011

"Ghost wipes" lead dust wipes no expiration date

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4.0 FINDINGS

4.1 Office Spaces.

Offices spaces are mostly equipped with the same furnishings. Desks, chairs, computer stations and are adjusted for ergonomic balance. While interviewing the employees at the armory that day, it appears that the temperature and humidity are satisfactory working conditions. There are signs of water damage on the floors and walls. Paint chips were found throughout the facility from water exposure. The HVAC system effectively monitors and controls temperature and humidity. The offices appeared to be neat and orderly. Ceiling tiles in some of the offices needed to be replaced due to staining from water damage.

4.2 Latrines/Locker rooms

The latrines appeared in need of attention at the time of the survey. There was a broken shower handle in the men's latrine as pictured in the attachment. There were also lights out and paint chipping in certain areas of the latrines.

4.3 Kitchen

The kitchen was in need of general housekeeping. There were dirty paper towels and other debris under shelving and equipment. This could become a nesting area for pest in the future and pose health hazard later on.

4.4 Classroom

The classroom appeared in order at the time of the survey. No ceiling tile damage, no lights were out.

4.5 Supply room/Utility Closet/Storage Cages

The supply room appeared in order. No water damage was noticeable at this time. The utility closet showed signs of water damage and large amounts of paint chipping from the water damage. Some general housekeeping was needed in this area.

4.6 Vault

The weapons vault at Clinton had Lead swiped samples taken inside and outside of the immediate area of the vault.

Area Sampled	Result above 20 ug.total
Vault floor inside	70 ug.total
Floor outside the vault	26 ug.total

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4.7 Drill Hall

The facility's drill hall has a concrete floor and concrete block walls. The ceiling is vaulted and has a lining inside. The inside of the roof seemed in fair condition at the time of the survey, although numerous water leaks could be spotted on the edges where the ceiling meeting the walls. There were also numerous paint chips along the floor from peeling off the walls, due to water leaks. Paint chip samples, as well as lead swipe samples were taken from the drill hall. Illumination standards were met or exceeded for a space this large.

Area Sampled	Result above 20 ug.total
Paint chips from drill hall floor	BRL

4.8 Maintenance Building/POL Storage

The maintenance building is a brick building. At the time of the survey it was in good condition. The POC states there in no maintenance performed at this facility other than PMCS. The POL shed is in fair condition.

5.0 Sampling

5.1 Noise Level

Readings throughout the main facility and the out buildings measured between 50 to 70 decibels "slow A scale". The only measureable noise was the video conference call in session and the background noise that could be heard in the outer buildings.

5.2 Radiation

Not applicable

5.3 Asbestos

No samples were taken at this site.

5.4 Illumination

The average illumination in the offices, conference room and classrooms was 53.6. See the table below for illumination values. These values show that some areas do not meet the recommended illumination standard. The following table reflects foot candle measurements noted during this survey.

Location		Foot Candles		IES Recommended Values
Offices, classrooms,		Average 61		50-100
Men's Latrine		Average 24		05/10/10

Ladies latrine	Average 20	05/10/10
Kitchen	Average 28	50/100
Drill Hall	Average 30	10/20/10
Vault	Average 33	10/20/11
Supply Rooms	Average 35	10/20/11
Maintenance Bay	Average 52	10/20/11

Recommended values from IES Lighting Handbook Application Volume 1987

5.5 Indoor Air Quality (IAQ)

Based on interviews, measurements and observations overall there is no technical or instrumental basis for IAQ concerns in this facility. No evidence of mold, extreme particulate build up or condensation on walls or floors. There are obvious roof leaks. Throughout the building the average temperature was 75.4 (DF) and the average humidity was 61.7. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 60% year round. Elevated humidity could promote growth of mold, bacteria and dust mites which can aggravate allergies and asthma. Carbon dioxide levels were very low and are a measure as to whether adequate volumes of fresh outdoor air are being introduced to indoor air. Outdoor levels of Carbon dioxide are usually 300-400 parts per million and indoor levels should be between 600-800 parts per million. The carbon dioxide levels in this facility were 383 parts per million on average. The ventilation system is in good working condition and maintains a comfortable working environment. A maintenance record program of the HVAC system was not available at the time of the survey.

5.6 Ergonomics

Evaluation was on work areas such as computer location, chair type, desk height, line of vision and angles of hands and fingers. Interviews with ARNG members indicated no concerns at this time in this area of the survey.

5.7 Hazardous Materials

Materials used at this armory are standard in most armory sites. Haz-mat inventories are posted appropriately.

5.8 Indoor Firing Range

The indoor firing range is now used for caged storage. Lead swipe samples were taking in this area.

Area Sampled	Result above 20 ug.total
Storage area (old IFR) ceiling	21 ug.total
Storage area (old IFR) floor below far wall	139 ug.total

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6 Technical Assistance

For technical assistance regarding information found in this report, please contact Mr. Etienne Rodriguez of the Southeast Regional Industrial Hygiene office at 404-559-4174.

6.1 References

Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA)

AR 40-5, Preventive Medicine, 25 May 2007.

AR 385-10, 29 February 2000, Army Safety Program.

TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, And Biological Exposure Indices (BEI's), 2009, ACGIH, Cincinnati Ohio

Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio

AR 11-34 Army Respiratory Protection Program, 15 February 1990

DA Pam 40-501, Hearing Conservation Program, 10 December 1998

NFPA 10: Standard for Portable Fire Extinguishers

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ATTACHMENT 1

RECOMMENDATIONS

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Based on interviews with the POC and other personnel as well as observations by Erik Miller IH Surveying Inc. staff and IAQ measurements, it appears the overall condition of this facility is in good condition, except for some ceiling tile damage by roof leaks and housekeeping needs.

All areas that have a lead exposure reading above 20 ug.total need to be addressed. These areas need to be cleaned and re sampled to make sure the exposure level have decreased, below the 20 ug.total. Standard ***RAC 1***

Paint chipping and water damage to the base of the walls, needs to be stripped and repainted and concrete needs to be repaired. ***RAC 1***

The housekeeping issues in the kitchen should be addressed before there is a pest problem. The artificial Christmas tree being stored in the AC Unit closet could pose a potential fire hazard ***RAC 3***

Ceiling tiles that are damaged need to be replaced ***RAC 3***

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ATTACHEMENT 3

PHOTOS

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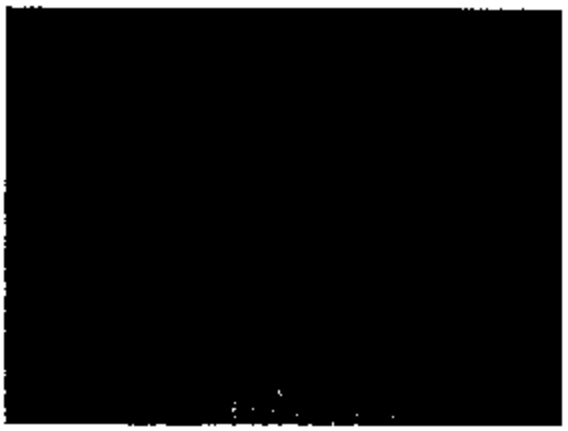
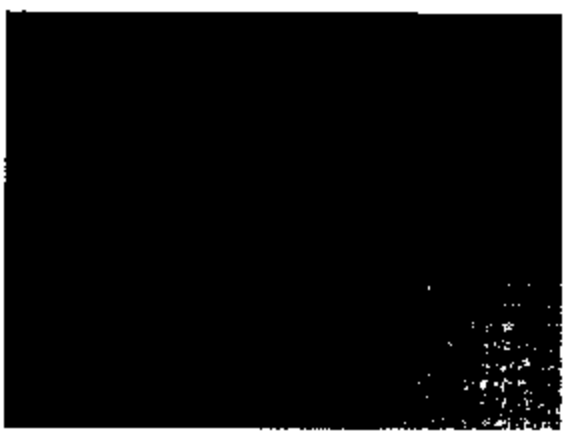


Mesh over ceiling: Ceiling in good condition

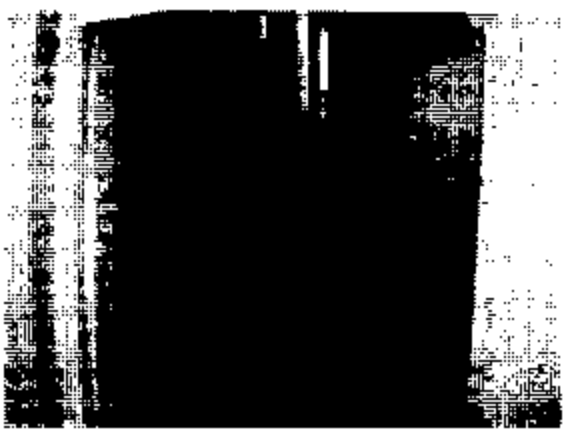
Paint chipping of walls and ceiling throughout the armory



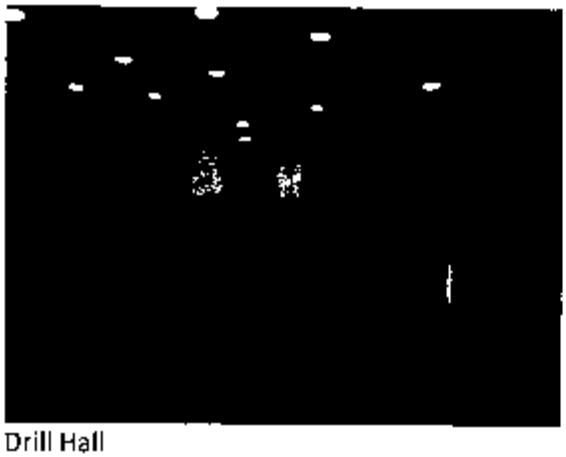
Paint chipping of walls and ceiling throughout the armory

Storage area: outside weapons vault: lead swipe samples taken

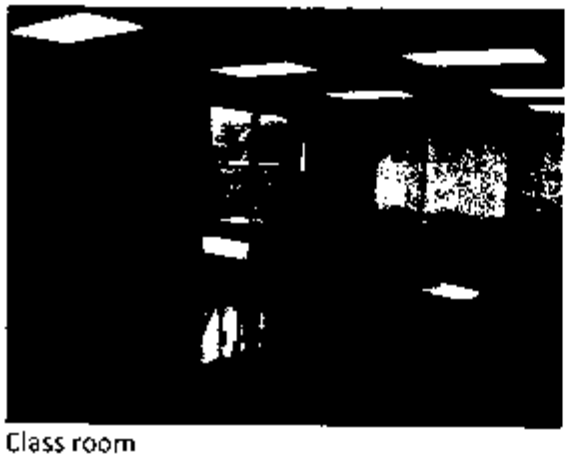
Old Indoor firing range now a storage area: Lead swipe samples taken



Artificial Christmas tree stored in AC Closet



Drill Hall



Class room

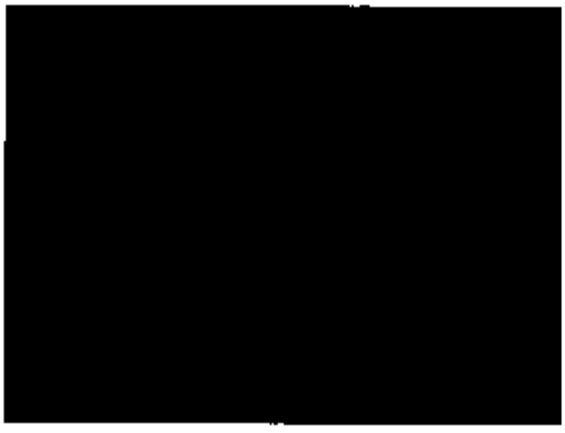
Debris in kitchen under shelving and equipment

Supply area outside of weapons vault

Parking area

POL Storage in good condition and organized

Broken shower fixture



Water damage and paint chipping in drill hall

Paint chipping off walls in Drill Hall

Paint chipping and water damage in utility closet

Utility closet needs housekeeping

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 18, 2012
Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Atlanta GA 30349

TEL: Non-Responsive
FAX:

RE: Clinton Armory

Dear Non-Responsive

Order No: 1205B03

Analytical Environmental Services, Inc. received 15 samples on 5/11/2012 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 12D5B03

Date: 5/7/12 Page 2 of 2

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530
College Park GA 30349

PHONE: [redacted]

FAX:

SAMPLER: [redacted]

SIGNATURE:

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. # of Containers
1	01SCL050712 (PAINT)	5/7/12	1130	X				Dall Hall	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: [redacted] DATE/TIME:

RECEIVED BY: 1: [redacted] 5/11/12 10:30 DATE/TIME:
2:
3:

SPECIAL INSTRUCTIONS/COMMENTS:
Please email results to [redacted]

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
☐ CLIENT ☑ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER

PROJECT INFORMATION
PROJECT NAME: Clinton Armory
PROJECT #:
SITE ADDRESS: 1500 E. Northside Dr
Clinton, MS 39056
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IH office
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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May, 2018

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May, 2018

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1705B03

Date: 5/7/12 Page 1 of 2.

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office [redacted]

ADDRESS: 510 Plaza Dr Suite 1530
College Park GA 30349

PHONE: [redacted]

FAX:

SAMPLE [redacted]

SIGNATURE: [redacted]

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	001CL050712	5/7/12	0800	X				VAULT FLOOR	
2	002CL050712			X				VAULT WALL	
3	003CL050712			X				VAULT DOOR IN	
4	004CL050712			X				FLR OUTSIDE VAULT	
5	005CL050712			X				DESK OUTSIDE VAULT	
6	006CL050712			X				STORAGE AREA (IFR)	
7	007CL050712			X				IFR CEILING	
8	008CL050712			X				IFR FLOOR	
9	009CL050712			X				IFR CEILING	
10	010CL050712			X				IFR WALL	
11	011CL050712			X				DRILL HALL FLOOR	
12	012CL050712			X				DRILL HALL FLOOR	
13	013CL050712			X				BLANK	
14	014CL050712	5/7/12	1100	X				DRILL HALL FLOOR	

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [redacted]	5/9/12	1: [redacted]	5/11/12 10:30
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: CLINTON ARMORY
PROJECT #:
SITE ADDRESS: 1500 E NORTHSIDE DR CLINTON, MS 39056
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB SOUTHEAST REGIONAL IH OFFICE.
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: [ ] I [ ] II [ ] III [ ] IV

SPECIAL INSTRUCTIONS/COMMENTS:
Please email results to [redacted]

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
[ ] CLIENT [x] FedEx [ ] UPS [ ] MAIL [ ] COURIER
[ ] GREYHOUND [ ] OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY, IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blank) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 18-May-12

Lab Order:	1205B03
Client:	National Guard Bureau Region-South III
Project:	Clinton Armory
Matrix:	Wipe
Date Received:	5/11/2012 10:30:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B03-001A	001CL050712	20	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-002A	002CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-003A	003CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-004A	004CL050712	26	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-005A	005CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-006A	006CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-007A	007CL050712	21	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-008A	008CL050712	139	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-009A	009CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-010A	010CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-011A	011CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-012A	012CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-013A	013CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW
1205B03-014A	014CL050712	BRL	ug, Total	20	1		05/07/2012	05/15/2012	MW

Lab Order:	1205B03
Client:	National Guard Bureau Region-South III
Project:	Clinton Armory
Matrix:	Paint
Date Received:	5/11/2012 10:30:00 AM

TOTAL LEAD IN PAINT (N7082)

PAINT

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B03-015A	015CL050712	BRL	wt%	0.00992	1		05/07/2012	05/16/2012	MW

Qualifiers: BRL - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are Blank corrected where applicable

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client OIA ARMY National Guard Work Order Number 1205B03

Checklist completed by Non-Responsive [redacted] 5/14/12
Si[redacted] Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes __	No __	Not Present ✓
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (~~4°C±2~~)*	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace? No VOA vials submitted ✓	Yes __	No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc

Date: 18-May-12

Client: National Guard Bureau Region-South 1H
Project: Clinton Armory
Lab Order: 1205B03

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205B03-001A	001CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-002A	002CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-003A	003CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-004A	004CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-005A	005CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-006A	006CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-007A	007CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-008A	008CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-009A	009CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-010A	010CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-011A	011CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-012A	012CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-013A	013CL050712	5/7/2012 8:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-014A	014CL050712	5/7/2012 11:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B03-015A	015CL050712	5/7/2012 11:30:00AM	Paint	TOTAL LEAD IN PAINT (N7082)		05/16/2012	05/16/2012

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive Non-Responsive, MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Clinton, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by Non-Responsive are enclosed.

3. Findings.

a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Clinton, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact [redacted], Regional Industrial Hygienist, NGB-AVN-SI, [redacted]

[redacted]
Regional Industrial Hygienist

ENCL.
as

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 10, 2002

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: Non-Responsive
FAX

RE: Clinton, MS

Dear Non-Responsive

Order No.: 0205123

Analytical Environmental Servs, Inc. received 11 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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0205127

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)	Point of Contact (name/AUTOVON)
NGB-AVN-SI 510 PLAZA DR SUITE 1530 COLLEGE PARK. GA 30349	Non-Responsive

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	05	
Non-Responsive	Date Collected	Date Shipped
	26 APRIL 2002	30 APRIL 2002

	Location (BEDS/AREA)
LEAD SAMPLING OF INDOOR FIRING RANGE	114th MP CO (-) Clinton, MS

Associated Complaints (be specific)

NONE

Associated Air Samples — If yes, list sample numbers

☐ Yes ☒ No

Label Information

Trade Name	Mfr	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired

LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	* 1	BOTTOM LEFT WALL		
001	2	CENTER LEFT WALL		
	* 3	TOP LEFT WALL		
	* 4	Top Left Bullet Stop End		
002	5	Middle Bullet Stop End		
	* 6	Bottom Right Bullet Stop End		
	* 7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Procedures Reported — Comments:

* DUE TO CONSTRUCTION/STORAGE UNABLE TO OBTAIN WIPE SAMPLES ON
# 1, 3, 4, 6, 7, 12, 15, 16, 18 A. GEN STATUE 12.70

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0205123

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	05	

Samples Collected By	Date Collected	Date Shipped
[redacted] Non-Responsive	26 APRIL 2002	30 APRIL 2002

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
114th MP CO(-)
Clinton, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Name	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
003	8	Middle Right Wall		
004	9	Bottom Right Wall		
005	10	Bottom Rear Wall		
006	11	MIDDLE FLOOR		
	*12	Top Rear Wall		
007	13	Floor Right Bullet Stop		
008	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Analyst (Encoded) | Reviewed By (Encoded) | Date Received | Date Reported

Procedures Performed | Comments:

A-GEN
5/4/02
12:30

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0205123

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/attention)
Non-Responsive

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	05	
Samples Collected By	**Date Collected**	**Date Shipped**
Non-Responsive	26 APRIL 2002	30 APRIL 2002

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
114th MP CO (-)
CLINTON, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	NSN	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	*15	Floor Left Rear Wall		
	*16	Ceiling Left Bullet Stop		
009	17	Ceiling Center		
	*18	Ceiling Right Rear Wall		
010	19	File Cabinet (L) side		
011	21			

Comments to Lab:

Lab Use Only

Analyst Initiated	Reviewed by Initiated	Date Received	Date Reported

Procedures Performed **Comments:**

A Gen
5/4/02
12:30

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client NGB

Work Order Number 0205123

Date and Time 5/6/02 12:30

Received by [redacted]

Checklist completed by [redacted] 5/6/02 (Date)

Reviewed by [redacted] 5/6/02 (Date)

Carrier name: USMAIL

Shipping container/cooler in good condition?	Yes ✓	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present ✓
Custody seals intact on sample bottles?	Yes	No	Not Present ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No	
Chain of custody agrees with sample labels?	Yes ✓	No	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container/Temp Blank temperature in compliance?	Yes ✓	No	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes ___ No ___

Water - pH acceptable upon receipt? ~~Yes~~ ___ No ___ NA

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: No TAT. Per client history, proceed with a standard TAT.

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Clinton, MS
Project No: Clinton MS
PO No:

Lab Order: 0205123
Date Received: 5/4/02 12:30:00
Matrix: Wipe
Analyst: Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205123-001A	2	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-002A	5	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-003A	8	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-004A	9	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-005A	10	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-006A	11	58.0	µg, Total	20.0	1	4/26/02	5/9/02
0205123-007A	13	120	µg, Total	20.0	1	4/26/02	5/9/02
0205123-008A	14	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-009A	17	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-010A	19	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205123-011A	21	BRL	µg, Total	20.0	1	4/26/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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FOIA Requested Record #J-15-0085 (MS)
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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive Non-Responsive MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Drew, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by SSG. Patricia Jones are enclosed.

3. Findings.

a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Drew, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive [redacted]

Non-Responsive [redacted]
Regional Industrial Hygienist

ENCL.
as

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 10, 2002

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE: Drew, MS

Dear [redacted]

Order No.: 0205122

Analytical Environmental Servs, Inc. received 20 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018
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Released by National Guard Bureau

0205122

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)	Point of Contact (name/AUTOVON)
NGB-AVN-SI 510 PLAZA DR SUITE 1530 COLLEGE PARK, GA 30349	Non-Responsive [redacted]

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	01	

Samples Collected By	Date Collected	Date Shipped
Non-Responsive [redacted]	APRIL 2002	30 APRIL 2002

Description of Operation	Location (BLDG/AREA)
LEAD SAMPLING OF INDOOR FIRING RANGE	BTRY A 1/114th FA DREW, MS.

Associated Complaints (be specific)

Associated Air Samples — If yes, list sample numbers

☐ Yes ☒ No

Label Information

Trade Name	Vol.	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired

LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
001	1	BOTTOM LEFT WALL		
002	2	CENTER LEFT WALL		
003	3	TOP LEFT WALL		
004	4	Top Left Bullet Stop End		
005	5	Middle Bullet Stop End		
006	6	Bottom Right Bullet Stop End		
007	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed by (initials)	Date Received	Date Reported

Procedures Performed — Comments:

A. Gan
5/4/02
12:30

9205122

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
[redacted] Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
01

ARLOC

Sample Collected By
[redacted] Non-Responsive

Date Collected
24 APRIL 2002

Date Shipped
30 APRIL 2002

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
DREW, MS.

Associated Complaints (be specific)
NONE

Associated Air Samples — If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Mfg.	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
008	8	Middle Right Wall		
009	9	Bottom Right Wall		
010	10	Bottom Rear Wall		
011	11	MIDDLE FLOOR		
012	12	Top Rear Wall		
013	13	Floor Right Bullet Stop		
014	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Inst. (Encoded) | Reviewed By (Encoded) | Date Received | Date Reported

Procedures Performed | Comments:

A. GRN
5/4/02
12:30

0205122

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code) NGB-AVN-SI 510 PLAZA DR SUITE 1530 COLLEGE PARK, GA 30349	Point of Contact (name/AUTOVON) Non-Responsive

Sampled Installation INDOOR FIRING RANGE	Project Number 01	ARLOC
Samples Collected by Non-Responsive	Date Collected 24 APRIL 2002	Date Shipped 30 APRIL 2002
Description of Operation LEAD SAMPLING OF FIRING RANGE		Location (BLDG/AREA)

Associated Complaints (be specific)
NONE

Associated Air Samples — If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	[illegible]	Manufacturer
Address		MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
015	15	Floor Left Rear Wall		
016	16	Ceiling Left Bullet Stop		
017	17	Ceiling Center		
018	18	Ceiling Right Rear Wall		
~~019~~				
019	20	Blank		
020	21	Blank		

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported
Procedures Performed	Comments:		

A Gen
5/4/02
12:30

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client NGB

Date and Time 5/4/02 12:30

Work Order Number 0205122

Received by [redacted]

Checklist completed by [redacted] Signature 5/4/02 Date

Reviewed by [redacted] Initials 5/6/02 Date

Carrier name: US MAIL

Shipping container/cooler in good condition?	Yes ✓	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present ✓
Custody seals intact on sample bottles?	Yes	No	Not Present ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container/Temp Blank temperature in compliance?	Yes ✓	No	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes ___ No ___

Water - pH acceptable upon receipt? ~~Yes ___ No ___~~ NA

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: no TAT. Per client history, proceed with a standard TAT.

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Drew, MS
Project No: Drew MS
PO No:

Lab Order: 0205122
Date Received: 5/4/02 12:30:00
Matrix: Wipe
Analyst: Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205122-001A	1	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-002A	2	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-003A	3	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-004A	4	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-005A	5	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-006A	6	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-007A	7	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-008A	8	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-009A	9	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-010A	10	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-011A	11	63.0	µg, Total	20.0	1	4/24/02	5/9/02
0205122-012A	12	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-013A	13	86.0	µg, Total	20.0	1	4/24/02	5/9/02
0205122-014A	14	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-015A	15	22.0	µg, Total	20.0	1	4/24/02	5/9/02
0205122-016A	16	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-017A	17	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-018A	18	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-019A	20	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-020A	21	BRL	µg, Total	20.0	1	4/24/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) 16 May 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted] Supervisor Columbus Armory, 111 Fabritek Drive, Columbus, MS 39704.

Thru: Non-Responsive [redacted] DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Columbus Armory, Columbus, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

e. AR 385-10, The Army Safety Program, 23 August 2007.

f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Columbus Armory, Columbus, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

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SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Columbus Armory, Columbus, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2011. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2012 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:

Non-Responsive State Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..

e Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL.

as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Columbus Armory
111 Fabritek Drive
Columbus, MS 39704

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] CIH PE
Tammer Sciences, Inc.

May 6, 2011

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- Site Description
- Scope of Work
- Methodology

Findings & Discussion

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- Asbestos Suspect Building Material ..... Page 3
- Noise Survey ..... Page 4
- Illumination Survey ..... Page 4
- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
- Recommendations ..... Page 5

Appendices

A. Floor Layout and Illumination Measurements.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. Photographs.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Columbus Armory on 24 February 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, where necessary, conducting an illumination survey, a noise survey, where excessive noise sources are identified, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 to 45 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No excessive noise levels were identified.	No action.
Illumination Survey	Average readings ranged from 20 to 150 foot candles	No action.
HVAC/IAQ	No issues observed or communicated.	No action.

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Columbus Armory in Columbus, Mississippi on 24 February 2011

BACKGROUND:

Introduction. At the request of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Columbus Armory in Columbus, Mississippi. Non-Responsive, Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive, contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 24 February 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1976 and subsequently renovated in 2008, houses the Battery A 2-114 Field Artillery. Three full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, a drill hall, a classroom, an exercise room, and a storage room. The indoor firing range has been converted to a storage area. Copies of the floor layout are included in Appendix A. Photos are included in Appendix E.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Where the presence of asbestos was suspect, bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was intended to be minimally destructive and samples were collected from inconspicuous areas. Each collected sample, if collected, was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Larson Davis Model Spark 706RC noise level meter was used to collect area noise readings. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted]

Lead Wipe Samples: Eleven wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
CS01	Top of cabinet in Orderly Office	<20
CS02	Top of cabinet is classroom	<20
CS03	Top of vending machine in drill hall	<20
CS04	Drill hall floor by vault south east corner.	<20
CS05	Drill hall floor middle of hall.	<20
CS06	Drill hall floor north east corner.	<20
CS07	Drill hall floor by converted IFR entrance northwest corner	<20
CS08	Floor in converted IFR by firing line	37
CS09	Floor in converted IFR mid range	45
CS10	Top of storage boxes in converted IFR south by trap	<20
CS11	Field blank	<20

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: No suspect building material types were identified in the Armory as potentially containing asbestos.

Noise Survey Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were

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collected. Noise levels are likely to be well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 8 foot-candles to 170 foot-candles. Specific readings were as follows:

Area	Lighting Readings in Foot Candles		
	Min	Average	Max
Admin Office #1	60	85	100
Admin Office #2	65	85	100
Admin Office #3	106	150	170
Admin Office #4	35	55	65
Admin Office #5	65	85	105
Admin Office #6	48	65	84
Admin Office Common Area #1	80	100	130
Admin Office Common Area #2	70	98	130
Conference Room	40	67	85
Classroom	25	90	110
Converted IFR	15	20	25
Exercise room	30	50	90
Storage	8	34	49
Classroom 2	49	80	88
Drill hall	10	20	30

All readings are within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels. Some light bulbs in the Kitchen were out.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 3 air handling units with

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capabilities of delivering outside makeup air to the occupied spaces. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

None.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive, Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive.

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APPENDIX A

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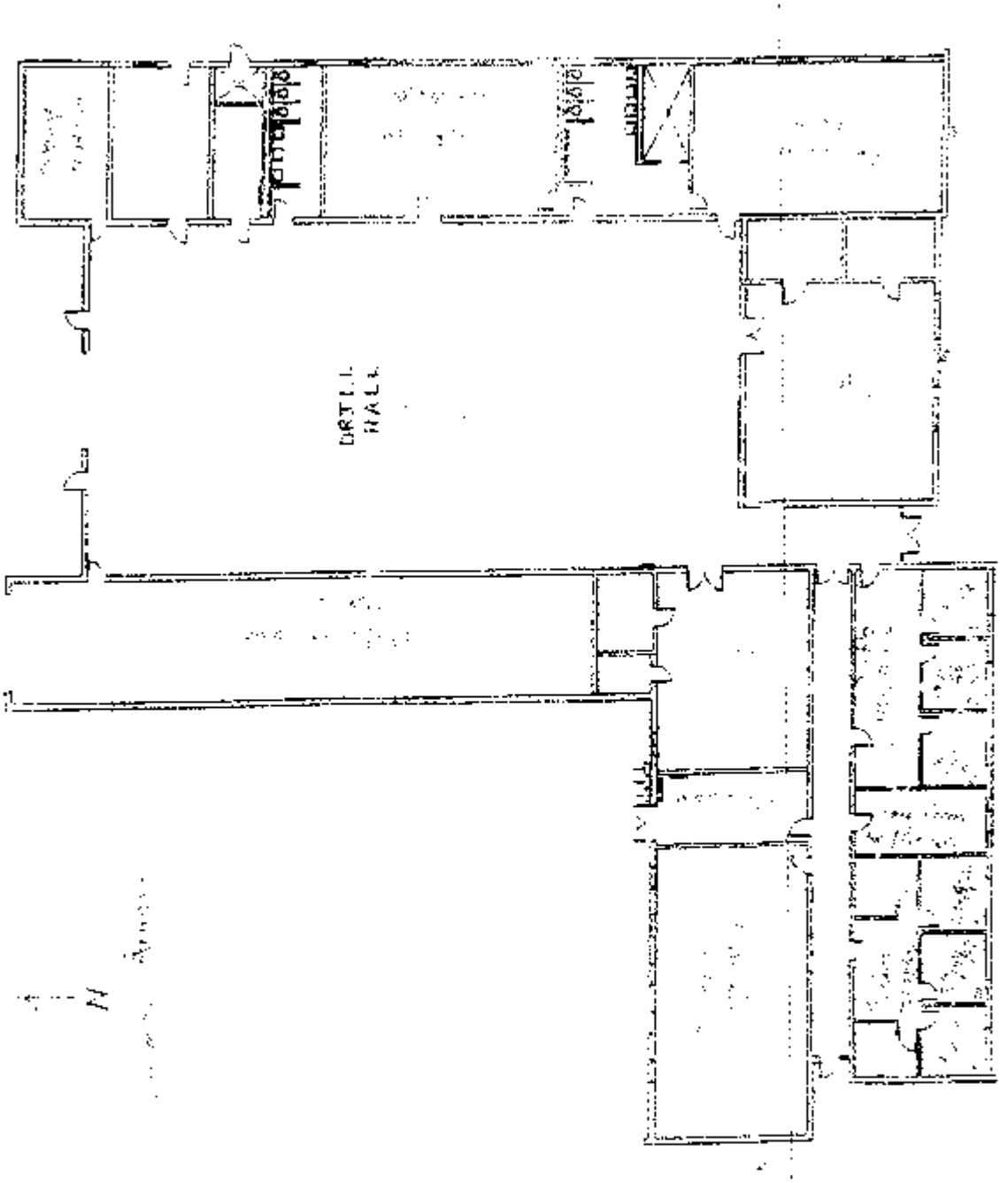

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APPENDIX B

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 11, 2011

[redacted]
Tammer Sciences, Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: MSARNG Armories

Dear [redacted] Order No: 1103436

Analytical Environmental Services, Inc. received 62 samples on 3/4/2011 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

[redacted]

Project Manager

3785 Presidential Pkwy • Atlanta, Georgia 30340 • Tel: (770) 457-8177 • FAX: (770) 457-8188

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B-1

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Analytical Environmental Services, Inc.

LEAD ON WIPES (NIOSH 7082)
N7082

Client: [illegible]
Project: NSAP NG Armory
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: [illegible]

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
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Analytical Environmental Services, Inc.

Date: [illegible]

LEAD ON WIPES (N910070082)
N70082

CLIENT: [illegible]
Project: [illegible]
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
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Qualifiers: [illegible]

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May, 2018

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APPENDIX C

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE: (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: H 34 [illegible]

Date: [illegible] Page 1 of 1

COMPANY: [redacted]
ADDRESS: [redacted]
[redacted]

ANALYSIS REQUESTED: Total Metals, Total Cyanide, Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Matrix	Container	Sampler	Total Metals	Total Cyanide	Lead	REMARKS
1	MW	2/21	Day			Mitchell	✓	✓		
2	WFB - Break	2/21	PM			Wright				
3	TMW1	2/22	Day			Bessie			✓	
4	CSW1 → CSW1	2/23/11	AM			Bessie			✓	
5	LW01 → LW10	2/24/11	AM						✓	
6	AK01 → AK05	2/24/11	AM						✓	
7	EP01 → EP09	2/24/11	AM						✓	
8	WP01 → WP08	2/24/11	AM						✓	
9	SW01 → SW10	2/24/11	PM						✓	
10										
11										
12										
13										
14										
15										

RELINQUISHED BY: [redacted] DATE/TIME: [redacted]
RECEIVED BY: [redacted] DATE/TIME:

PROJECT INFORMATION
PROJECT NAME: MSARNG Armories
PROJECT #:
SITE ADDRESS:
REPORT TO: [redacted]
INVOICE TO: [redacted]

RECEIPT
Total # of Containers:
Temperature Upon Receipt
Standard Turnaround Time
Expedited Turnaround Time
Same Day Rush (with surcharge)
Other
CUSTODY SEALS: Intact Y N Broken Y N
DATE/TIME: [illegible]

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPPING INFORMATION
OUT: Via
IN: Via
FEDEX UPS USPS OTHER
GROUND AIR OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO DATE IS MARKED ON COLLECTION, WORK WILL BE STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A Air, Soil Contaminated, SL Sediment, SO Soil, SW Surface Water, W Water (Blanks), DW Drinking Water, O Other (specify)
PRESERVATIVE CODES: H Hydrochloric Acid, N Nitric Acid, S Sulfuric Acid, NaOH Sodium Hydroxide, Na2S2O3 Sodium Thiosulfate, Na Sodium Bisulfate, Methanol, Other (specify)

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form — Front Page

ARLOC: 4 7 0 0 0 0

Installation: [redacted]

Building: M A I N

Room Number:

Location | Operation | Survey Date | Month | day

[redacted] 1 Non-Responsive

Evaluator -HNUS: K H S

Macom: N G

Submacom: X X

Unit / Organization (45): Battery A 2-114 Field Artillery

RAC:

DSN: [redacted] Commercial: [redacted]

Frequency (hrs/day): 1

No. CIVs:

No. MIL: 0 3

Contractors: 0 0

No. LOCs:

Ventilation Units: 0 0 | 0 0 | 0 0 | 0 0

Controls Present (if>6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit Code:

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-100 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs		X	X
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

HHIMS Industrial Hygiene Survey Form — Back Page

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	CAS code	PAC	EPC	Hazard Description
PONDISECO	7 4 3 9 - 9 2 - 1			Lead Dust
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJF				
POLISHOCK				
COLUBEOIL				

Social Security Number or Unique identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

x Personnel data provided by the facility is attached to this form

Comments Remember to comment on problems, recommendations, and needed control items

Operation described is

Small arms clean ups in the hall Surface wipe samples were collected fro various areas of the Armory

Refer to the report for the results

Comments continued or attached

This operation was explained to the evaluators but was not actually observed

There is a noise data sheet attached to this form

This is a ventilation data sheet attached to this form

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APPENDIX E

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Photo #1: Front entrance to Columbus Armory.

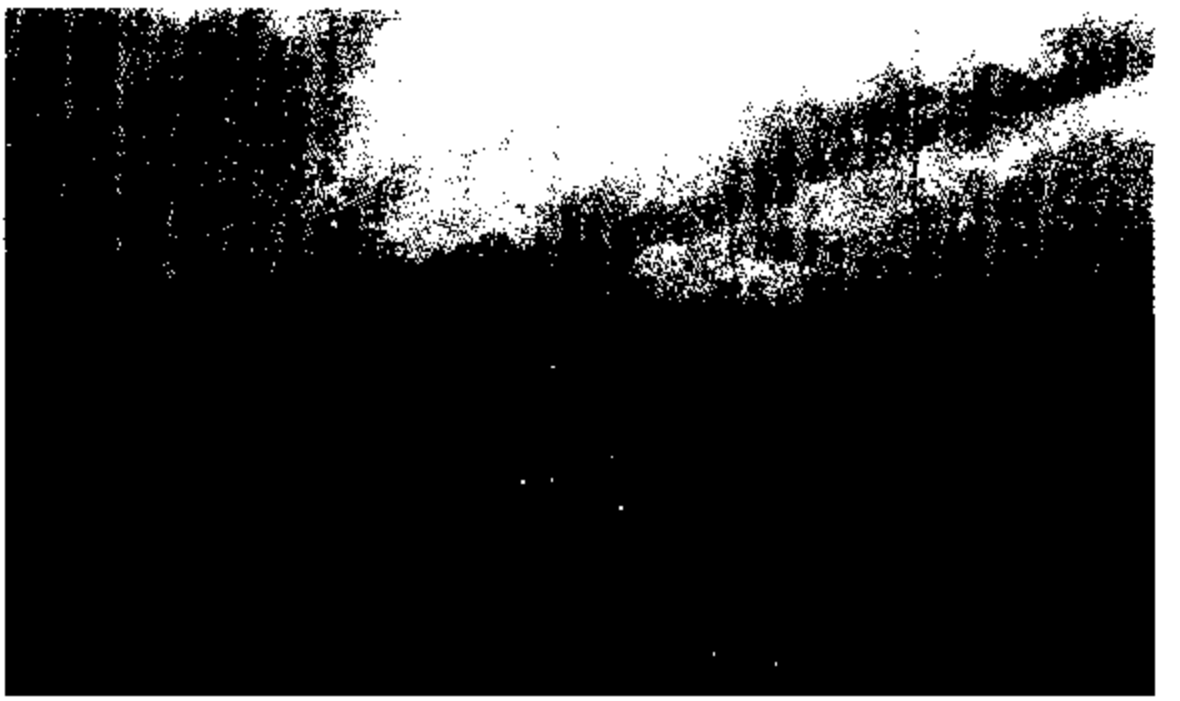

Photo #2: West side of the Armory.

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Photo #3: East side of the Armory.

Photo #4: Drill hall facing north.

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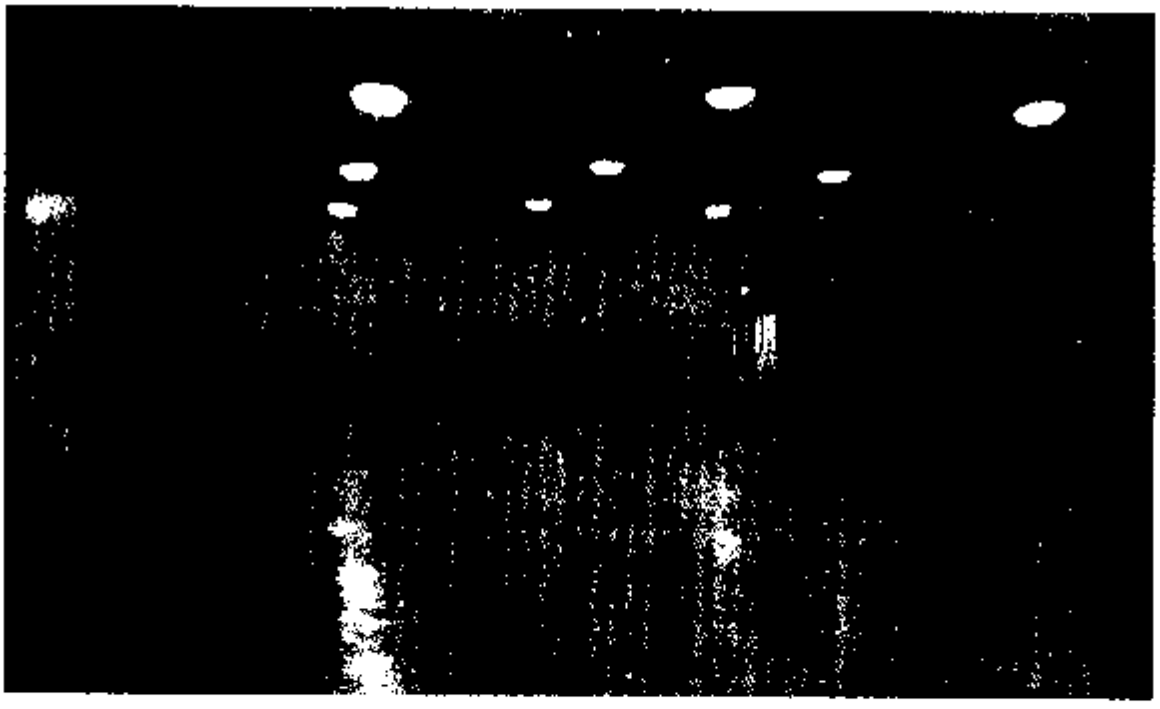

Photo #5: Drill hall facing south.

Photo #6: Converted HR used as storage.

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Photo #7: Converted IFR facing north.

Photo #8: Mechanical room showing the Air handler .

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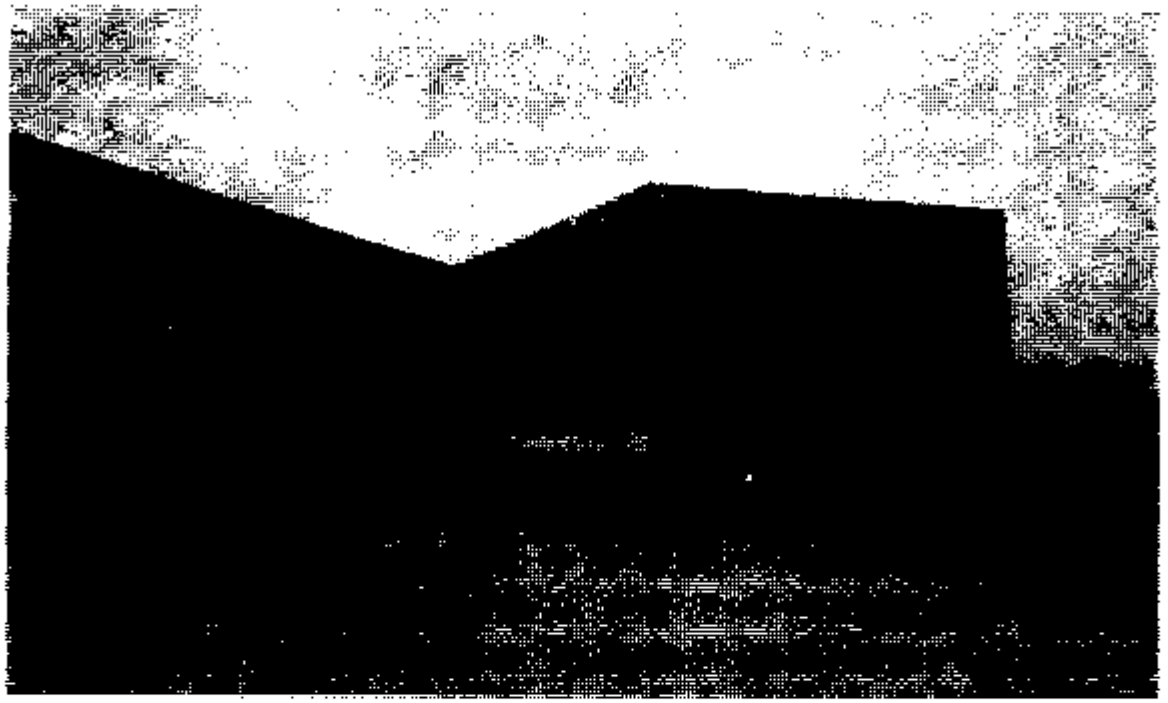

Photo #9: Outside the Armory showing the rear of the drill hall and IFR.

Photo #10: Classroom.

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: LTC Thomas Conerly, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for conversion of Indoor Firing Range, Corinth, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty sampled were collected and submitted for testing of Total Lead. Of those twenty samples, two blanks were included. All samples returned by the lab after analysis were bellow less than 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected, three from each surface area for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Even though no lead wipe sample was above 200 µg/ft² the areas were not sampled before application of lead encapsulating material, and a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04, the area could be used for storage only. To protect the area from external re entry of lead dust ensure all ventilation openings of the previous ventilation system are covered by at least a 5 mil plastic sealed around the edges to make it as air tight as possible. Also, prior to the replacement of the Armory's roof and the firing range's ventilation system remove all stored material or equipment to prevent its contamination in the event of a mishap with the enclosure of the system. Re-sample the area after roof remodeling is completed following the same protocol. Further, upon completion of conversion, this range is to be used only for storage as initially planned. Pregnant females or children cannot utilize this space in any capacity. No items should be stored in this space that is intended for use by children. There is no assurance that the standard for gestational females and children of less than 40 µg/ft² was met prior to the application of sealant. In addition, this range, after conversion will need to be tested yearly in order to ensure lead has not leached.

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NGB-ARS-SEIH

27 June 2010

SUBJECT: Waver for conversion of Indoor Firing Range, Corinth, MS.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to use this area as storage, meeting the above requirements is granted.

Non-Responsive

[redacted]

CF: NGB-ARS-JHSE

Non-Responsive [redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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LAE CONSULTING
1218 Scattered Pines Court, Severn, MD, 21144
Tel: (410) 551-2717

17 June 2010

MEMORANDUM FOR: National Guard Bureau Industrial Hygiene Office, Region South, ATTN: Non-Responsive, 510 Plaza Drive, Suite 1530, College Park, GA 30349

SUBJECT: Lead Wipe Survey of Corinth Armory's Deactivated Indoor Firing Range, Corinth Mississippi

1. References.

a. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

b. AR 40-5, Preventive Medicine, 22 July 2005.

c. AR 385-10, 29 February 2000, Army Safety Program.

d. TB MED 503, The Army Industrial Hygiene Program.

e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

f. NG Pamphlet 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (IFRs), 3 November 2006.

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SUBJECT: Lead Wipe Survey of Corinth Armory's deactivated Indoor Firing Range, Corinth Mississippi

2. Background. At the request of Non-Responsive of the National Guard Bureau Region south Industrial Hygiene Office, Non-Responsive of LAE Consulting performed Lead wipe sampling in the deactivated Indoor Firing Range (IFR) of the Corinth Armory on 26 May 2010. Non-Responsive was accompanied by Non-Responsive of the Facility Management office.

3. Purpose. The purpose of this survey was to indicate if the range had been adequately cleaned of Lead.

4. Facility Description. All associated range materials and equipment has been removed. The range had been cleaned and analyzed for Lead months earlier. The walls were encapsulated and painted. The ranges' exhaust grill is present but electrical supply has been cut. The exhaust was located behind the backstop. The backstop has since been removed. The supply air grill was located behind the observation room. The observation room has been removed. Supply air is received through a storage/Publication room located behind the range.

5. Sampling Strategy and Laboratory. Wipe samples were obtained from areas indicated on a sampling template received from National Guard Bureau Industrial Hygiene office. Lead wipe samples were analyzed by Analytical Environmental Services, Inc.

6. Findings.

a. Eighteen Lead wipe samples and three blank samples were obtained from areas indicated on the template. One sample was found greater than clearance limit of 200 ug/ft^2. Six samples were found above the EPA limit of 40 ug/ft^2. Table 1 below indicates sample locations and results. A copy of the laboratory results are located with in the enclosure of this report.

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SUBJECT: Lead Wipe Survey of Corinth Armory's deactivated Indoor Firing Range, Corinth Mississippi

Table 1

Sample #	Sample location	Sample results
Blank-1-COR	BLANK	BRL
LW-01-COR	Bottom Left wall	34 ug/ft^2
LW-02-COR	Middle left wall	BRL
LW-03-COR	Top Left Wall	BRL
LW-04-COR	Top Left Bullet Stop	BRL
LW-05-COR	Middle Bullet Stop	1160 ug/ft^2
LW-06-COR	Bottom Right Bullet Stop	53 ug/ft^2
LW-07-COR	Top Right Wall	40 ug/ft^2
LW-08-COR	Middle Right Wall	BRL
LW-09-COR	Bottom Right Wall	BRL
LW-10-COR	Bottom Rear Wall	31 ug/ft^2
Blank-2-COR	BLANK	BRL
LW-11-COR	Middle Rear Wall	BRL
LW-12-COR	Top Rear Wall	BRL
LW-13-COR	Floor Right Bullet stop	81 ug/ft^2
LW-14-COR	Floor Center	161 ug/ft^2
LW-15-COR	Floor Left Rear Wall	24 ug/ft^2
LW-16-COR	Ceiling Left Bullet Stop	BRL
LW-17-COR	Ceiling Center	BRL
LW-18-COR	Ceiling Right Rear Wall	BRL
Blank-3-COR	BLANK	BRL

7. Technical Assistance. For technical assistance, regarding information found in this report, please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office, [redacted]

Non-Responsive

LAE Consulting

2 Encl

1. Photos of Facility
2. Lab results

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SUBJECT: Lead Wipe Survey of Corinth Armory's deactivated Indoor Firing Range, Corinth Mississippi

8. Recommendations.

Recommend cleaning the range until clearance samples are below 200 ug/ft^2, if the range is to be converted to an occupied space the range must be cleaned to the EPA clearance standard of 40ug/ft^2 for residual lead dust.

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 03, 2010

Non-Responsive [redacted]
LAE Consulting
1218 Scattered Pines Ct
Severn MD 21144

TEL: Non-Responsive [redacted]
FAX: [redacted]

RE: Corinth Armory Range Study

Dear Non-Responsive [redacted]: Order No: 1005N78

Analytical Environmental Services, Inc. received 21 samples on 5/28/2010 10:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive [redacted]
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 100SN78

Date: 26 May 10 Page 1 of 2

COMPANY: LAE Consulting

ADDRESS: 1218 Scattered Pines CT Severn, MD 21144

PHONE: [redacted]

SAMPLED [redacted]

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	BLANK-1-COR	26/05/10		X					1
2	LW-01-COR	"		X					1
3	LW-02-COR	"		X					1
4	LW-03-COR	"		X					1
5	LW-04-COR			X					1
6	LW-05-COR			X					1
7	LW-06-COR			X					1
8	LW-07-COR			X					1
9	LW-08-COR			X					1
10	LW-09-COR			X					1
11	LW-10-COR			X					1
12	BLANK-2-COR			X					1
13	LW-11-COR			X					1
14	LW-12-COR			X					1

[redacted] DATE/TIME

RECEIVED BY [redacted] DATE/TIME 5/28/10 10:45

3:

SHIPMENT METHOD
OUT 26/05/10 VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

[redacted]

PROJECT INFORMATION
PROJECT NAME: Corinth Armory Range Study
PROJECT #:
SITE ADDRESS: 2813 S. Harper, Corinth, MS 38834
SEND REPORT TO: LAE Consulting + INVOICE
QUOTE #: PO#:

RECEIPT
Total # of Containers 21

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y N; Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 5 PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. 11saae62@aol.com
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
RESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LAE Consulting Work Order Number 1005N78

Checklist completed by [redacted] 5·28·10
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (~~4°C±2~~)* M 5/28/10	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace? No VOA vials submitted ✓	Yes __	No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No ✗ M 5/28/10

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc

Date: 3-Jun-10

Lab Order: 1005N78
Client: LAE Consulting
Project: Corinth Armory Range Study
Matrix: Wipe
Date Received: 5/28/2010 10:45:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1005N78-001A	BLANK-1-COR	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-002A	LW-01-COR	34	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-003A	LW-02-COR	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-004A	LW-03-COR	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-005A	LW-04-COR	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-006A	LW-05-COR	1160	µg/ft²	45	2.24		05/26/2010	06/01/2010	MW
1005N78-007A	LW-06-COR	53	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-008A	LW-07-COR	40	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-009A	LW-08-COR	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N78-010A	LW-09-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-011A	LW-10-COR	31	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-012A	BLANK-2-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-013A	LW-11-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-014A	LW-12-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-015A	LW-13-COR	81	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-016A	LW-14-COR	161	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-017A	LW-15-COR	24	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-018A	LW-16-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-019A	LW-17-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-020A	LW-18-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW
1005N78-021A	BLANK-3-COR	BRL	µg/ft²	20	1		05/26/2010	06/02/2010	MW

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

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May, 2018

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LAE Consulting Work Order Number 1005N78

Checklist completed by [redacted] 5·28·10
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (~~4°C±2~~)* Yes ✓ No __ M 5/28/10

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No ✗ ML 5-28-10

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

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Analytical Environmental Services, Inc

Date: 3-Jun-10

Client: LAE Consulting
Project: Corinth Armory Range Study
Lab Order: 1005N78

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1005N78-001A	BLANK-1-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-002A	LW-01-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-003A	LW-02-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-004A	LW-03-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-005A	LW-04-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-006A	LW-05-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-007A	LW-06-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-008A	LW-07-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-009A	LW-08-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N78-010A	LW-09-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-011A	LW-10-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-012A	BLANK-2-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-013A	LW-11-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-014A	LW-12-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-015A	LW-13-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-016A	LW-14-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-017A	LW-15-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-018A	LW-16-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-019A	LW-17-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-020A	LW-18-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010
1005N78-021A	BLANK-3-COR	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/02/2010

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc Date: 3-Jun-10

Client: LAE Consulting
Project Name: Corinth Armory Range Study
Workorder: 1005N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 130207

Sample ID: MB-130207 | Client ID: | Units: ug, Total | Prep Date: 06/01/2010 | Run No: 172956
Sample Type: MBLK | TestCode: LEAD ON WIPES (N9100/N7082) | BatchID: 130207 | Analysis Date: 06/01/2010 | Seq No: 3596511

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-130207 | Client ID: | Units: ug, Total | Prep Date: 06/01/2010 | Run No: 172956
Sample Type: LCS | TestCode: LEAD ON WIPES (N9100/N7082) | BatchID: 130207 | Analysis Date: 06/01/2010 | Seq No: 3596513

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	935.4	20	957	0	97.7	80	120	0	0	0	

Sample ID: LCSD-130207 | Client ID: | Units: ug, Total | Prep Date: 06/01/2010 | Run No: 172956
Sample Type: LCSD | TestCode: LEAD ON WIPES (N9100/N7082) | BatchID: 130207 | Analysis Date: 06/01/2010 | Seq No: 3596515

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	900.3	20	957	0	94.1	80	120	935.4	3.82	25	

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Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc

Date: 3-Jun-10

Client: LAE Consulting
Project Name: Corinth Armory Range Study
Workorder: 1005N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 130208

Sample ID: MB-130208	Client ID:	Units: ug, Total	Prep Date: 06/01/2010	Run No: 173011
SampleType: MBLK	TestCode: LEAD ON WIPES (N9100/N7082)	BatchID: 130208	Analysis Date: 06/01/2010	Seq No: 3596601

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-130208	Client ID:	Units: ug, Total	Prep Date: 06/01/2010	Run No: 173011
SampleType: LCS	TestCode: LEAD ON WIPES (N9100/N7082)	BatchID: 130208	Analysis Date: 06/01/2010	Seq No: 3596602

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	942.5	20	957	0	98.5	80	120	0	0	0	

Sample ID: LCSD-130208	Client ID:	Units: ug, Total	Prep Date: 06/01/2010	Run No: 173011
SampleType: LCSD	TestCode: LEAD ON WIPES (N9100/N7082)	BatchID: 130208	Analysis Date: 06/02/2010	Seq No: 3596604

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	916.8	20	957	0	95.8	80	120	942.5	2.76	25	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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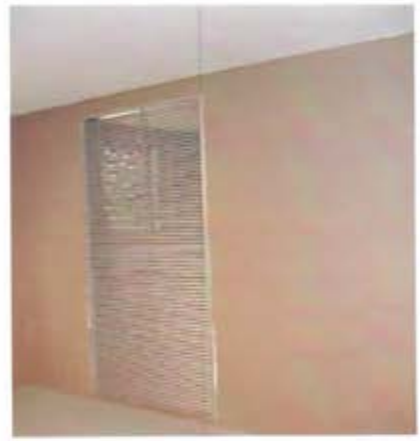
Corinth Armory deactivated Indoor Firing Range, downrange view

Corinth Armory deactivated Indoor Firing Range, uprange view

Corinth Armory deactivated Indoor Firing Range, uprange view

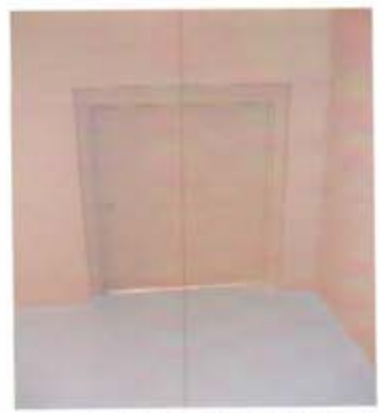


Supply air grill located within the range leading into storage room

Supply air grill located within the range leading into storage room

View of the former exhaust of the range

View of one of four exhaust grills



Access panel from drill hall into range where backstop would have been

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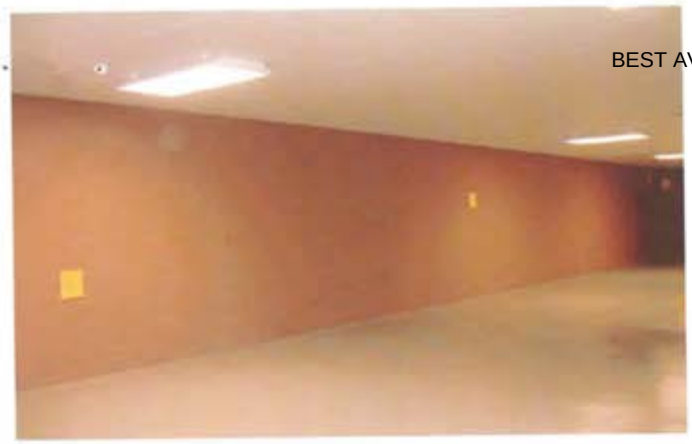

View of Lead sample 1 and 2, located on left wall, downrange

View of lead wipe samples 4,5,6,7,8,13,14

View of lead wipe sample 3 and 4 located on the left wall and backstop walls of the range

View of lead wipe sample 7 located on right wall. Sample 6 located on rear wall and sample 13 located at the floor

Uprange view of lead wipe sample locations 14,9,10,11,12,15,1

View of Lead wipe sample 5, located center rear wall (bullet stop)

View of lead wipe sample 6, located right side of rear wall (bullet stop)

View of Lead wipe sample 7, located on right wall

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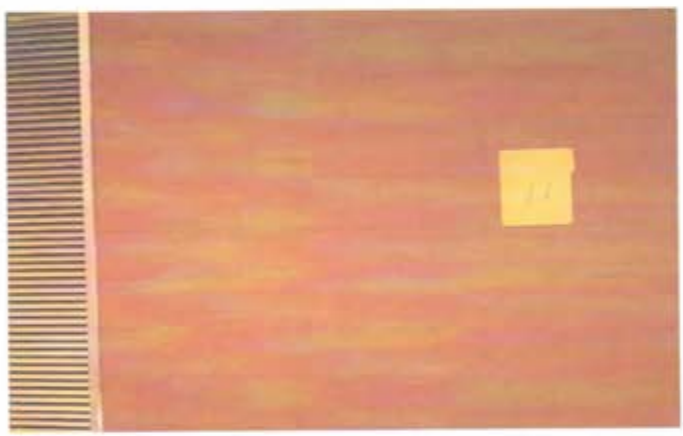
View of Lead wipe 8, located on right wall center

View of Lead wipe 9, located on right wall of range

View of lead wipe 10,11,12,and 15 located on rear wall at range entrance

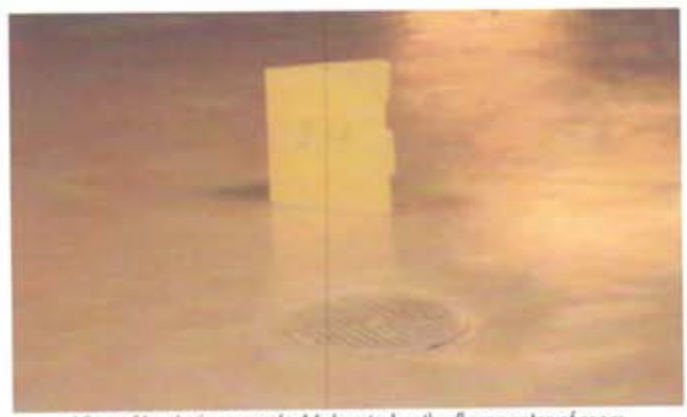
View of Lead wipe sample 10 located at rear wall at range entrance



View of Lead wipe sample 11, located at center of rear wall

View of Lead wipe sample 12, located at right of supply air grill

View of Lead wipe sample 6 and 13, located on bullet stop wall and on the floor



View of lead wipe sample 14, locatedon the floor center of room

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View of Lead Wipe sample 15, located on the floor near range entrance

View of lead wipe sample 16. located on ceiling near bullet stop wall

View of lead wipe sample 17. located on ceiling center of range

View of lead wipe sample 18. located on ceiling nearsupply air grill

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Corinth Armory Range

View of Corinth Armory Range before conversion

View of range prior to conversion

View of observation room prior to conversion

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN: [redacted] Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: [redacted] DS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Status Lead Sampling of Plenum Room at the Indoor Firing Range, Corinth, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. The plenum Room was found to be excluded from the cleaning effort. Five sampls were collected and submitted for testing of Total Lead. Of those five samples, one blank was included. Twol samples returned by the lab after analysis were above 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 5 samples were collected for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe wa opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. No sealant was applied to this area prior to sampling. This area of the range is **NOT** cleared to be sealed. Per NG Pam 420-15, in order to be cleared for sealant, **ALL** measurements must be less than 200 µg/ft². Upon cleaning by the vendor, please notify this office, and we will do another complete wipe test on this range area.

[redacted]
Regional Industrial Hygienist

CF: NGB-ARS-IHSE
[redacted] ate Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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LAE CONSULTING
1218 Scattered Pines Court, Severn, MD, 21144
Tel: (410) 551-2717

17 June 2010

MEMORANDUM FOR: National Guard Bureau Industrial Hygiene Office, Region South, ATTN: Non-Responsive 510 Plaza Drive, Suite 1530, College Park, GA 30349

SUBJECT: Additional Lead Wipe Sampling of Storage Room of Corinth Armory, Corinth Mississippi

1. References.

a. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

b. AR 40-5, Preventive Medicine, 22 July 2005.

c. AR 385-10, 29 February 2000, Army Safety Program.

d. TB MED 503, The Army Industrial Hygiene Program.

e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

f. NG Pamphlet 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (IFRs), 3 November 2006.

SUBJECT: Additional Lead Wipe Sampling of Storage Room of Corinth Armory, Corinth Mississippi

2. Background. At the request of Non-Responsive of the National Guard Bureau Region south Industrial Hygiene Office, Non-Responsive of LAE Consulting performed Lead wipe sampling in a room located behind the deactivated Indoor Firing Range (IFR) of the Corinth Armory on 26 May 2010. Non-Responsive was accompanied by Non-Responsive of the Facility Management office.

3. Purpose. The purpose of the sampling is to indicate if the Lead from the range entered the storage room .

4. Facility Description. Supply air is received through a storage/Publication room located behind the range. The room is currently being used as a storage room and Publication library. The room is located behind the range and served as the plenum for the range. The supply air grill was located behind the observation room. The observation room has been removed. All associated range materials and equipment has been removed. The range had been cleaned and analyzed for Lead months earlier. The walls were encapsulated and painted.

5. Sampling Strategy and Laboratory. Lead Wipe samples were obtained from areas indicated on a sampling template received from National Guard Bureau Industrial Hygiene office. Lead wipe samples were analyzed by Analytical Environmental Services, Inc.

6. Findings.

a. Five Lead wipe samples and one blank sample were obtained. Two samples were found greater than clearance limit of 200 ug/ft^2. Table 1 below indicates sample locations and results. A copy of the laboratory results are located with in the enclosure of this report.

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SUBJECT: Additional Lead Wipe Sampling of Storage Room of Corinth Armory, Corinth Mississippi

Table 1

Sample #	Sample location	Sample results
LW-00-Blank	BLANK	BRL
LW-001-COR-ST	5 Level of Shelf in front of supply air grill, 1st shelf from top	404 ug/ft^2
LW-002-COR-ST	Wall next to range supply middle 6 ft up	BRL
LW-003-COR-ST	Back wall right of ext supply grill 5 ft up 2 feet to the right	BRL
LW-004-COR-ST	Floor Center	219
LW-005-COR-ST	Inside wall 4 feet up, 4 feet to the left	BRL

7. Technical Assistance. For technical assistance, regarding information found in this report, please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office, Non-Responsive

Non-Responsive

LAE Consulting

2 Encl

1. Photos of Facility
2. Lab results

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SUBJECT: Additional Lead Wipe Sampling of Storage Room of Corinth Armory, Corinth Mississippi

8. Recommendations.

Gather additional lead wipe samples (i.e. ceiling all walls, bookshelves and books etc) or cleaning the room until clearance samples are below the EPA clearance standard of 40ug/ft^2 for residual lead dust. Discourage employees from entering room to eliminate/or reduce further contamination throughout the Armory.

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 02, 2010
Non-Responsive
[redacted]
LAE Consulting
1218 Scattered Pines Ct
Severn MD 21144

TEL: Non-Responsive
FAX: [redacted]

RE: Range Sampling Supply Room

Dear Non-Responsive [redacted] Order No: 1005N70

Analytical Environmental Services, Inc. received 7 samples on 5/28/2010 10:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]

Project Manager

3785 Presidential Parkway • Atlanta, Georgia 30340 • Tel: (770) 457-8177 • FAX: (770) 457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1005N70

Date: 26 May 10 Page 1 of 1

COMPANY: AE Consulting

ADDRESS: 518 Scatted Pines Ct Severn, MD 21144

PHONE: [redacted]

SAMPLE: [redacted]

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	LW-00-BLANK	26/05/10		X	X				1
2	LW-001-COR-ST			X	X				1
3	LW-002-COR-ST			X					1
4	LW-003-COR-ST			X					1
5	LW-004-COR-ST			X					1
6	LW-005-COR-ST			X					1
7									
8									
9									
10									
11									
12									
13									

RELINQUISHED BY: [redacted] DATE/TIME

RECEIVED BY: 1. [redacted] DATE/TIME 5/28/10

2. 10:45

3:

PROJECT INFORMATION

PROJECT NAME: Range Sampling Supply Room

PROJECT #:

SITE ADDRESS: 2813 South Harper Road Corinth, MS 38853

SEND REPORT TO: LAECO Building Invoice

INVOICE TO: NGB-IH OFFICE (IF DIFFERENT FROM ABOVE) [redacted]

RECEIPT

Total # of Containers: 6

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):

E-mail? (Y) N; Fax? Y (N)

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: Lead wipes Results in ug/FT2 1FT2 Template Ghost Wipes used

SHIPMENT METHOD: OUT 26/05/10 VIA: IN / / VIA: CLIENT (FedEx) UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TA[redacted]
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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Analytical Environmental Services, Inc.

Date: *07-Jun-10*

CLIENT: LAE Consulting
Project: Range Sampling Supply Room
Lab Order: 1005N70

CASE NARRATIVE

Sample "LW-006-COR-ST" was submitted but was not listed on the Chain of Custody.

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Analytical Environmental Services, Inc

Date: 2-Jun-10

Lab Order: 1005N70
Client: LAE Consulting
Project: Range Sampling Supply Room
Matrix: Wipe
Date Received: 5/28/2010 10:45:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1005N70-001A	LW-00-BLANK	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N70-002A	LW-001-COR-ST	40	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N70-003A	LW-002-COR-ST	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N70-004A	LW-003-COR-ST	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N70-005A	LW-004-COR-ST	219	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N70-006A	LW-005-COR-ST	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW
1005N70-007A	LW-006-COR-ST	BRL	µg/ft²	20	1		05/26/2010	06/01/2010	MW

Qualifiers BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client LAE Consulting Work Order Number 1005N70

Checklist completed by [redacted] 5-28-10
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✗ No ✓ CK 5/28/10

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No ✗ M 5-28-10

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc

Date: 2-Jun-10

Client: LAE Consulting
Project: Range Sampling Supply Room
Lab Order: 1005N70

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1005N70-001A	LW-00-BLANK	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N70-002A	LW-001-COR-ST	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N70-003A	LW-002-COR-ST	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N70-004A	LW-003-COR-ST	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N70-005A	LW-004-COR-ST	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N70-006A	LW-005-COR-ST	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010
1005N70-007A	LW-006-COR-ST	5/26/2010 12:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		06/01/2010	06/01/2010

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Client: LAE Consulting
Project Name: Range Sampling Supply Room
Workorder: 1005N70

ANALYTICAL QC SUMMARY REPORT

BatchID: 130207

Sample ID: MB-130207	Client ID:				Units: ug, Total		Prep Date: 06/01/2010		Run No: 172956	
SampleType: MBLK	TestCode: LEAD ON WIPES (N9100/N7082)				BatchID: 130207		Analysis Date: 06/01/2010		Seq No: 3596511	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-130207	Client ID:				Units: ug, Total		Prep Date: 06/01/2010		Run No: 172956	
SampleType: LCS	TestCode: LEAD ON WIPES (N9100/N7082)				BatchID: 130207		Analysis Date: 06/01/2010		Seq No: 3596513	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	935.4	20	957	0	97.7	80	120	0	0	0	

Sample ID: LCSD-130207	Client ID:				Units: ug, Total		Prep Date: 06/01/2010		Run No: 172956	
SampleType: LCSD	TestCode: LEAD ON WIPES (N9100/N7082)				BatchID: 130207		Analysis Date: 06/01/2010		Seq No: 3596515	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	900.3	20	957	0	94.1	80	120	935.4	3.82	25	

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Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lm Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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View of the indoor firing range wall and supply air grill leading into the storage room

View of the supply air grill from the range side

View of the supply air grill from the range side looking at the supply air grill in the storage room

View of both supply air grills in the storage room

View of the storage room

View of the storage room

View of the Lead wipe sample 1 and 2, located on the shelf in the storage room and on he wall in the storage room

View of lead wipe sample 3, located on back wall 5 feet up on the right of the room supply air grill

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View of Lead wipe sample 4, located on floor center of room in the storage room

View of Lead wipe sample 5, located on entry way or inside wall 4 feet up and 4 feet to the

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) January 8, 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive DET 1, 367th Support Maintenance Company, P.O. Box 548, DeKalb, Mississippi 39328-0548.

Thru: LTC Thomas Conerly, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard DeKalb Armory, DeKalb, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

c. Title 29 CFR, General Industry, revised 1996 rev. Part 1940

d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

e. AR 385-10, The Army Safety Program, 23 August 2007.

f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

l. Report Industrial Hygiene Survey, SE Safety Solutions, Hampton Cove, AL.

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SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard DeKalb Armory, DeKalb, Mississippi.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG DeKalb Armory, DeKalb, Mississippi.

a. The surveys were conducted by Mr. Rickey McGraw of SE Safety Solutions, Hampton Cove, AL.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Understand that all findings included in the enclosed report have been reviewed by the Regional Industrial Hygienist and the following recommendations are the ones to be followed.

a. Use the guidance given in the enclosed report as good industrial hygiene (IH) practices, requesting IH services where needed. The recommendations that follow are based on the survey findings as reported:

i. Replace the two burned out round bulbs in the Drill Hall to increase lighting. Also Up grade the illumination in the shop to meet the standard for each location. In the interim review the illumination survey worksheets in enclosed report and the Illumination narrative to determine where best to place supplemental illumination. (RAC 3)

ii. Ensure that all weapons are thoroughly cleaned before bringing them into the volt and placing them on the racks. In order to address the elevated ead dust wipe results clean the vault floor IAW NGB (AR) 385-15 Appendix C. The floor should be thoroughly wiped down and or wet mopped with an industrial cleaner using tri phosphates, Mr. Clean or Spic n Span. For additional lead cleaning measures, see Enclosure 6. (RAC 2)

iii. Repair the water leaks and cracked cinder blocks in the Wool Room. (RAC 3)

iv. Replace damaged or missing ceiling tiles in the Facility (RAC 3)

v. . Ensure to perform semi-annual inventories and updates of MSDS's on all chemicals in the facility and are incorporated to thr HAZCOM MSDS binder. Ensure all hazardous materials are stored in appropriate locations (RAC 3)

b. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2010. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2011 IHIP.

c. Have all HHIM data entered into the HHIM computer module.

d. Use the report to help in correcting all deficiencies noted.

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ARNG-CSG-P (40-5f)

January 8, 2011

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard DeKalb Armory, DeKalb, Mississippi.

e. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

f. Contact the State Occupational Health Office, Non-Responsive [redacted], for any medical Surveillance that may be needed.

g. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Mr. Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]
Non-Responsive [redacted]

Non-Responsive [redacted]
Regional Industrial Hygienist

CF: ARNG-CSG-P
Non-Responsive [redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.
[redacted]te Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

ENCL:
as

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Industrial Hygiene Report
For
Mississippi Army National Guard
At
DeKalb Armory
Post Office Box 548
DeKalb, Mississippi 39328

Prepared for:
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

By
Non-Responsive
SES Solutions
13 October 2010

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Enclosures:

1. Health Hazard Information Module (HHIM) Survey Form
2. Listing of hazardous chemicals/materials at the facility
3. Analytical Lead Wipe Results
4. Personnel Roster
5. Design Floor Plan
6. Lead Clean Up Procedures
7. References
8. Pictures: 1-24

SESS October 13, 2010

MEMORANDUM FOR: Mississippi Army National Guard, ATTN: Non-Responsive, DET 1, 367th Support Maintenance Company, P.O. Box 548, DeKalb, Mississippi 39328-0548

SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module (HHIM) Survey, DET 1, 367th SPT MT CO

1. REFERENCES: See Enclosure 7.

2. BACKGROUND: At the request of Non-Responsive, National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Consultation and Health Hazard Information Module Field Survey were performed at the Mississippi National Guard Armory, P.O. Box 548, DeKalb, Mississippi 39328 on October 13, 2010. The POC was Non-Responsive The primary mission of DET 1, 367th SPT MT is to provide unit maintenance support on equipment. The purpose of the survey was to perform lead wipe samples; a ventilation survey, an Illuminations survey, and complete HHIM field survey forms on all industrial operations at the facility (see Encl 1 for completed HHIM Survey Form).

3. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples and illumination measurements. All other instrumentation was operated according to manufacturer recommendations.

   a) Reed LM-81LX, Light Meter, S/N: Q303521, calibrated: 12/15/2009
   b) Ghost Lead Dust Wipes, Manufactured: February 10, 2010, Expiration: 08/2013

4. FINDINGS:

   a) DET 1, 367th SPT MT MP Company and Supply:

      i) Administrative duties included pay, promotions, schools, family support, assignments, and supplies. The supply area was broken down into Class 2 items of clothing and equipment. The supply area was also responsible for maintaining some TA 50.

      ii) Forty-two M-Day soldiers trained at the facility.

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b) General Area Armory Information:

i) Material Safety Data Sheets (MSDS) were located in the facility. All employees must be initially trained in the Federal Hazardous Communication Program IAW 1910.1200 (see Encl 2 for a listing of hazardous chemicals/materials at the facility).

ii) Twelve lead dust wipe samples were taken, using a 12 inch by 12 inch template. One sample was above the Federal Standard of 40µg/ft². No sample was above the National Guard Standard of 200µg/ft².
Pictures of the lead sample wipes were taken (see Encl. 8, photos M374 to M385). The analytical lead result sheet included the sampled locations and corrected results. The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
Vault Floor	M374	163
Supply Room Floor	M375	BRL
Drill Hall Floor S.E. Side	M376	BRL
Drill Hall Floor S.W. Side	M377	BRL
Drill Hall Floor Center	M378	BRL
Drill Hall Floor N.E. Side	M379	BRL
Drill Hall Floor N.W. Side	M380	BRL
Table in the Kitchen	M381	BRL
Front Entrance Hallway Floor	M382	BRL
Wall where Bullet Stop was I.D.R	M383	BRL
Floor in front of Bullet trap	M384	BRL
Water fountain in the Drill Hall	M385	BRL
Blank		

Note 1: µg/ft² refers to micrograms or one millionth of a gram per sq ft.
Note 2: BRL means Not Detected at the Reporting Limit.

iii) Drill Hall: Conducting classes and drill formations is the main purpose in the hall. (See Encl. 8, photo 13). Illumination levels ranged from 13 to 50 FC's.

iv) Furnace/General Mechanical Ventilation: Good.

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v) The following table identifies area deficiencies:

AREA	DEFICIENCIES
Wool Room	Water Stains and cracked blocks
Drill Hall	2 Round bulbs burned out
Class Room	Ceiling tile missing

vi) Due to the low noise levels (administrative areas) there was no requirement for a Hearing Conservation Program. The only requirement would be when the M-Day troops were firing their weapons. All M-Day and full-time soldiers had earplugs.

vii) A listing of DET 1, 367th SPT MT CO personnel is attached as Encl. 4.

viii) A design floor plan of the armory is attached as Encl. 5. Illumination levels are listed below in Paragraph 5.

5. ILLUMINATION SURVEY RESULTS:

a) Illumination Levels: The following additional illumination level readings were taken during the survey and are reported below in foot candles (FC's).

AREA/LOCATION	FOOT CANDLES (FC)
Front Entrance Hallway	20-27
Commander's Office	78-108
Orderly Room	68-120
Training Office	61-65
Class Room	87-158
Female Latrine	52-59
Male Latrine	55-56
Vault	24-28
Exercise Room	57-69
Motor Pool	37-58
Kitchen	55-56
Supply Room	52-57
Shop Office	62-90
Old Inactive Indoor Range Area	41-46
Drill Hall	13-50

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SESS
SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

6. TECHNICAL ASSISTANCE:

POC for further assistance concerning this evaluation is Non-Responsive

Non-Responsive
SES Solutions

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7. RECOMMENDATIONS:

a) Conduct semi-annual inventories and update MSDS's on all chemicals in the facility. **(RAC 3)**

b) Due to the lead dust wipe results, it is recommended that the vault floor is cleaned IAW NGB (AR) 385-15 Appendix C. The floor should be thoroughly wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Clean or Spic-n-Span. For additional lead cleaning measures, see Enclosure 6. **(RAC 2)**

c) Submit a work order to the Facilities Maintenance Office (FMO) to repair the water leaks and cracked cinder blocks in the Wool Room. (See encl 8, photos 15 & 16) **(RAC 3)**

d) Perform monthly checks on fire extinguishers (Not being checked). Each month, ensure that the devices are checked, recorded, turn upside down and tapped with a rubber mallet to loosen any material at the bottom. Have the local fire department conduct annual inspections of fire extinguishers. **(RAC 3)**

e) Submit a work order to FMO requesting a pest control contractor be provided on a monthly basis to keep down ants, cock roaches and spiders. (See encl 8, photo 15) **(RAC 3)**

f) Submit a work order to FMO requesting that the noisy exhaust fan in the male latrine be repaired or replaced. **(RAC 3)**

g) Replace the missing ceiling tile in the Class Room. (See encl 8, photo 18) **(RAC 3)**

h) Replace the two burned out round bulbs in the Drill Hall to increase lighting. (See encl 8, photo 17) **(RAC 3)**

i) If work practices change, a new assessment should be made on the controls in Place.

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC

Installation: Redstone Arsenal

Building

Room Number

Location: A A

Operation: A D O

Survey Date / month / day: 1 0 / 1 0 / 1 3

Evaluator

Macom: N G

Submacom: X X

Unit / Organization (45)

Supervisor Mr. Ms. Rank

RAC

Supervisor, or Point of Contact Telephone Number

DSN

Commercial

Frequency (hrs/day): 0 0 5

No. CIVs: 0 0

No. MIL: 0 2

Contractors: 0 0

No. LOCs: 0 0

Lab Hoods: 0 0

Vapor Degreasers: 0 0

Spray Booths: 0 0

Open Surface Tanks: 0 0

Ventilation Units: 0 0

Controls Present (If >6, continue in comments)(25)	Evaluation (25 characters max)	Unit code	Controls Required (25 characters max)
OTH	20-27	F T C	20-50 FTC
OTH	13-50	F T C	20-50 FTC

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters max)
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) _____ - EYE (portable) _____ - SHW - GMV - LEV

ACO AOM OSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
PONOISECO				
POFDOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOIL				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Insert Privacy Act Statement

Comments

Operation described is PERSONNEL & ADMINISTRATIVE DUTIES, RECORD Updating, enlistment, extension & promotions

☐ This operation was explained to the evaluators, but was not actually observed.

(comments continued on attached)

There is a noise data sheet attached to this form ☐

There is a ventilation data sheet attached to this form ☐

2/8/95 CHPMBACK.XLS

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CHEMICAL INVENTORY
DET 1, 367TH MAINTENANCE COMPANY

AS OF 16 AUGUST 2010

NOMENCLATURE	TRADE NAME	HAZARD	LOCATION	NSN
DUST MOP SPRAY	NEW JAX		FIRE PROOF CABINET	N/A
AIR FRESHENER	LHB		FIRE PROOF CABINET	6840-00-721-6055
TOILET CAKES	N/A		FIRE PROOF CABINET	6840-00-246-6438
PINE OIL	SKILCRAFT		FIRE PROOF CABINET	6840-00-687-7904
BREAKTHROUGH	INLAND		SOLVENT TANK	6850-01-378-0666
ALL-PURPOSE CLEANER	SKILCRAFT		FIRE PROOF CABINET	7930-00-926-5280
ALL-PURPOSE CLEANER	SKILCRAFT		FIRE PROOF CABINET	7830-00-177-5243
ALL-PURPOSE CLEANER	SPRAY NINE		FIRE PROOF CABINET	7930-01-177-0795
HAND LOTION SOAP	GOJO		FIRE PROOF CABINET	8520-01-378-3090
Glass Cleaner	Skilcraft		FPC	7930-01-326-8110
Floor Finish	Skilcraft		FPC	7930-01-350-8387

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CHEMICAL INVENTORY AS OF 21 DEC 2009
DET 1, 367TH MAINTENANCE COMPANY

NOMENCLATURE	TRADE NAME	AMOUNT	LOCATION	NSN
LUBE OIL 15/40W	SAFETY CLEAN	10 GAL	HAZMAT BUILDING	9150-01-438-6082
LUBE OIL 15/40W	GARDFLEET	7 GAL	HAZMAT BUILDING	9150-01-421-1424
LUBE OIL 15/40W	SAFETY KLEEN	7 QTS	HAZMAT BUILDING	9150-01-438-6076
LUBE OIL 10W	CITGO	2 GAL	HAZMAT BUILDING	9150-00-186-6668
ECOSAFE CLEANER	SUPERCLEAN	5 GAL	HAZMAT BUILDING	N/A
BRAKE FLUID	SAN JUAN INRTNL	6 GAL	HAZMAT BUILDING	9150-01-102-9455
CLEANER	ECOCLEAN	1 GAL	HAZMAT BUILDING	N/A
CLP	BREAKFREE	4 1/2 PTS	HAZMAT BUILDING	9150-01-179-6124
CLP	BREAKFREE	6 PTS	HAZMAT BUILDING	9150-01-054-6453
RIFLE BORE CLEANER	KONALRAD	1 PT	HAZMAT BUILDING	6850-00-224-6657
ACRYLIC PAINT (BLUE)	GLIDDEN	1/2 GAL	HAZMAT BUILDING	00F018020
ACRYLIC PAINT (WHITE)	GLIDDEN	1/2 GAL	HAZMAT BUILDING	00F018020
ACRYLIC PAINT	SHERWIN WILLIAMS	1/2 GAL	HAZMAT BUILDING	8010-01-334-3002
LATEX PAINT	PROMAR	1/2 GAL	HAZMAT BUILDING	8010-00D004798
LATEX PAINT	PROMAR	2 GAL	HAZMAT BUILDING	8010-00F042127
LATEX PAINT	PROMAR	2 GAL	HAZMAT BUILDING	8010-00F012504
LUBE OIL 30WT	STENS	2 QT	HAZMAT BUILDING	9150-00N071333
CLEANER	BRIGGS & STRATTON	1 1/2 GAL	HAZMAT BUILDING	N/A
DEGREASER	GREASED LIGHTNING	2 GAL	HAZMAT BUILDING	7930-00N057380
ANTIFREEZE	FLEET	1 GAL	HAZMAT BUILDING	6850-01-464-9125
ANTIFREEZE	FLEET	15 GAL	HAZMAT BUILDING	6850-01-464-9137
GASOLINE,AUTOMOTIVE	TEXACO BRAND	1/2 GAL	HAZMAT BUILDING 2	9130-00-148-7103
ACRYLIC PAINT	SHERWIN WILLIAMS	1 GAL	HAZMAT BUILDING	8010-00N028966
LATEX PAINT	PROMAR 200	2 GAL	HAZMAT BUILDING	N/A
LATEX PAINT	PROMAR 400	1/2 GAL	HAZMAT BUILDING	N/A
ACRYLIC PAINT	SHERWIN WILLIAMS	1/2 GAL	HAZMAT BUILDING	8010-00N028965
OIL BASE SATIN	SHERWIN WILLIAMS	1/2 GAL	HAZMAT BUILDING	8010-00N018232
OIL BASE GLOSS	SHERWIN WILLIAMS	1/2 GAL	HAZMAT BUILDING	8010-00F006890
OIL BASE SATIN	SHERWIN WILLIAMS	1/2 GAL	HAZMAT BUILDING	8010-00F006896

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Analytical Environmental Services, Inc.

Date: 10/22/2010

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: SES
Project: DE Kalb, MS Armory
Delivery Order:
PO No:

Lab Order: 1010D50
Date Received: 10/15/2010 10:10 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
1010D50-001A	M374	163	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-002A	M375	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-003A	M376	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-004A	M377	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-005A	M378	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-006A	M379	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-007A	M380	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-008A	M381	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-009A	M382	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-010A	M383	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-011A	M384	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-012A	M385	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP
1010D50-013A	BLANK	BRL	ug, Total	20	1	10/13/2010	10/21/2010	MP

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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DeKalb, MS Armory

SUBJECT: Personnel Roster

NAME	RANK	POSITION
Non-Responsive		Readiness NCO
		Admin/Supply NCO

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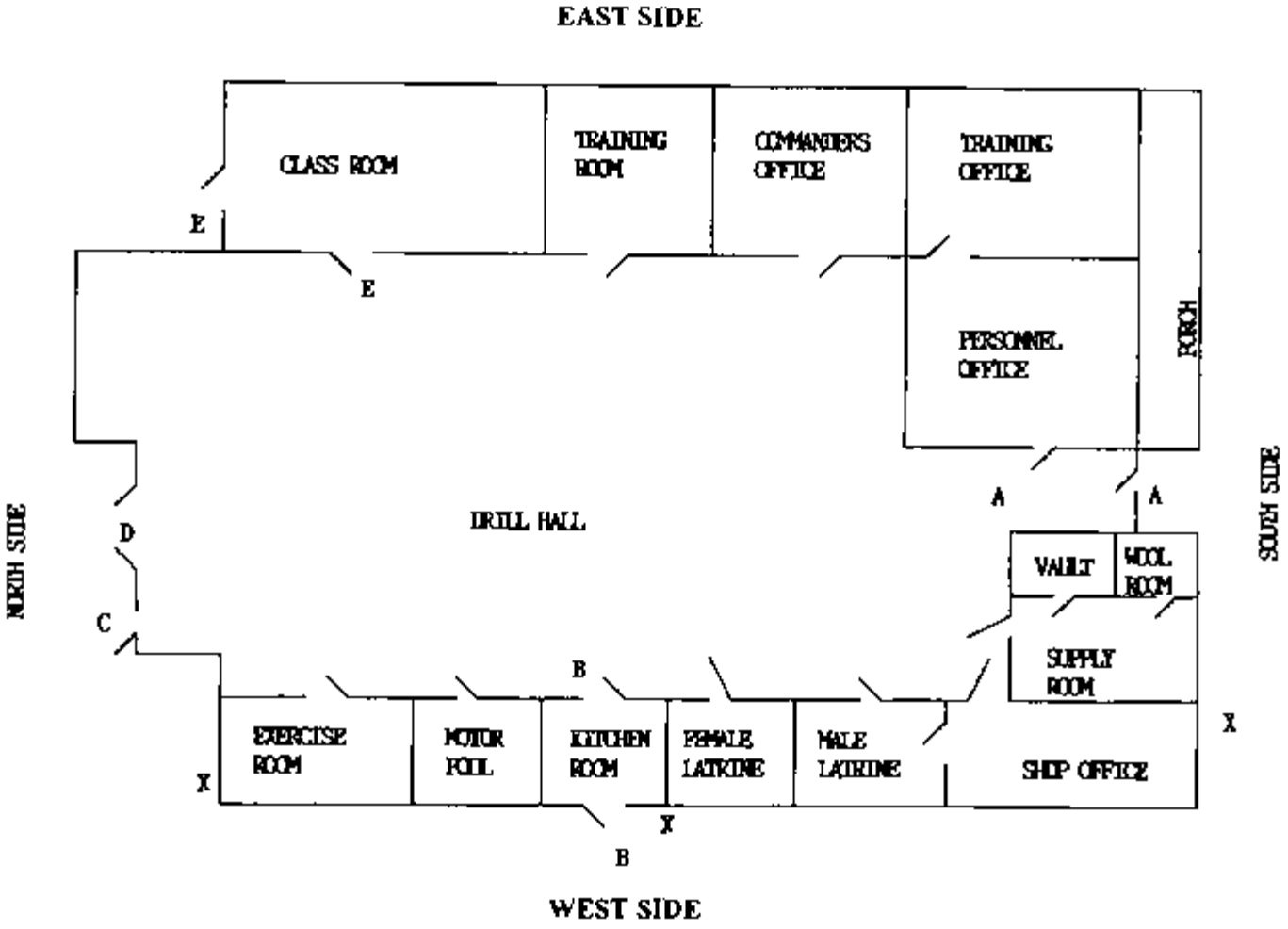
FIRE PLAN *FIRE PLAN*

REVISED: 6 December 2006



WEST SIDE OF BUILDING

EXITS are located at A, B, C, D, and E. Follow the colored Line to EXIT
The X Denotes your location in this building. Water outlets for Water Hose = X

1. **IN CASE OF FIRE notify CO and/or Full-Time Personnel and give location of fire.**
2. **CALL FIRE DEPARTMEN, Phone #601-743-4930 or call the Sheriff's office at 601-743-2255**
3. **FIRE EXTINGUISHERS are located in the Drill Hall, Supply Room and Kitchen.**

NOTE: Mark a colored line from the room this plan is located to exit prior to installing FIRE PLAN in that room on the door and MASTER PLAN on Bulletin Board.

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ENCLOSURE 6

ARMORY CLEANUP REQUIREMENTS

High Test Results

If the public utilizes your facility and the test results for lead came back above 40 $\mu g/ft^2$ you are responsible for cleaning this area and adjoining areas to meet the 40 $\mu g/ft^2$ or less, unless:

1. You can guarantee that no children under the age of 7 will come into your facility.

2. Your state public health has other guidance, for example, signage is required to warn personnel who are pregnant or of child bearing age, or under the age of 7 years old.

3. Signs stating "No smoking, drinking, eating, or applications of cosmetics without washing of hands prior to activity" are properly installed in your facility.

1. Cleaning of Building.

Before proceeding into the cleanup mode, first discuss with your Environmental Office what procedures are recommended and then coordinate your cleanup efforts with local agencies, if warranted.

a. The building, as well as the dusty materials and equipment in it, should be cleaned one time to reach the lead dust levels that are appropriate for the function of the facility, for example, facilities used by full-time personnel only, utilized by adults or children 7 years old or older children only, or not utilized by pregnant individuals and/or children under the age of 7. **NOTE:** This type of cleaning implies that this is not at a facility that has an active Indoor Firing Range. For facilities with active ranges, these facilities should be monitored with wipe samples taken over the drill floor area by the Range Custodian quarterly, to ascertain that the level of lead is at the required level for your particular facility and situation.

   1. This cleanup can be accomplished using a HEPA vacuum (a very tedious and time-consuming operation) and then by utilizing a wet method with "Spic n Span" or something equivalent to this detergent – using wet rags to wipe down surfaces and mops soaked in this solution to do the entire floor area. **NOTE: Personal protective gloves, rubber boots, or protective disposable shoe/boot covers should be used during this procedure and personnel who have performed the cleanup should wash their clothing separately from their family's clothing.**

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ENCLOSURE 6

especially if they have young children at home. Personnel should wash their hands after performing this operation to assure that lead contaminates are not ingested.

2. Frequent changing out of the water used for cleaning is vital. Disposal of this hazardous waste water and rags/mop heads, Personal Protective Equipment (PPE), etc., should be coordinated with your Environmental office.

b. Clean all ductwork where lead was found. EPA has a protocol specifically for replacing or cleaning lead in dust form in HVAC systems. EPA Office of Pollution Prevention and Toxics, "*Renovate Right – Important Lead Hazard Information for Families, Child Care Providers and Schools*". http://www.epa.gov/lead/pubs/rrpamph.pdf .

c. Continue to enforce good housekeeping and hygiene practices. These measures make good sense to minimize exposures to any toxic chemicals in the workplace.

d. Provide lead awareness training to the general workforce and any occupants of your facility.

***NOTE:* Before you start any new procedures or practices be aware of the local city and state regulations in your area.**

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ENCLOSURE 6

ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

1. Cloth Mop head(s) & Mop head holder(s) with handle.
2. Mop bucket(s) with wringer.
3. Clean cotton rags and sponges.
4. Disposable gloves.
5. Large barrel (55 gallon) to store wastewater in after changing out of dirty scrub water.
6. Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc. home for laundering.
7. HEPA vacuum
8. Six (6) mill plastic bags to dispose of waste.
9. Wastewater containers.

Disposal of Waste Water and Cleaning Materials:

1. ***NOTE:*** Consult with the Local Army National Guard Environmental Office prior to taking any collection, disposal, or commencement of wiping activities. Each state and territory may have additional regulatory guidance regarding the collection, storage, and disposal of wastewater.

2. Mop heads should be disposed of after initial cleaning, unless otherwise advised by Environmental Office personnel. ***NOTE:*** **Thorough cleaning of mop heads may be sufficient enough to permit subsequent reuse on future Armory cleanups, but check with the local Environmental Office before reuse.**

3. Disposable gloves should be treated as hazardous waste material.

4. Soiled cotton rags should be treated as hazardous waste material.

5. Wash water contaminated with lead may be collected and allowed to slowly evaporate leaving lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

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a. Drums shall be properly labeled to identify contents in accordance with (IAW) Federal, state, and local regulatory guidance.

b. Disposal of containerized waste shall be coordinated IAW state hazardous waste program requirements.

c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

1. Thoroughly wash hands with soap and water.

2. Rinse off rubber boots with soap and water, capturing wastewater for collection into the established waste stream. If personnel have chosen to use overshoes for protection, dispose of the used overshoes into the established waste stream. ***NOTE***: **This recommendation is for initial cleanup activities; PPE requirements may be reduced after it has been determined that non-hazardous levels of lead have been achieved.**

3. Wash BDU's or personal clothing separately from children's clothes.

IMPORTANT NOTES:

1. **No eating, drinking or application of cosmetics is allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area).**

2. **Avoid blowing, shaking or like actions which could potentially disperse lead dust. Dry sweeping, dusting, wiping, or blowing with compressed air shall not be permitted.**

Initial Armory Cleanup:

1. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in room (ceiling, wall trim, and floors). Start with the ceiling and work down, moving toward the entry door. **Completely clean each room before moving on.**

2. Prepare water and detergent for the wipe down phase, according to manufacturer's recommendations.

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ENCLOSURE 6

3. Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.

***NOTE*: If walls to be cleaned show signs of deterioration, for example, chipping or crumbling paint in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the cleanup should be avoided.**

4. Now prepare water and detergent (for example, Spic n Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufacturer's recommendations, which should be found on the product's label for general clean up.

    a. Change out water and detergent frequently (when water appears dirty)

    b. Rinse out mop heads frequently to prevent contamination of dirty water.

5. Cover entire drill floor surface with above prescribed water and detergent.

6. Final rinse should be with clean water only – after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices ***after Clearance sampling of cleaned area is performed by certified personnel:***

1. Floor cleaning and dusting should be accomplished using the wet cleaning described in Initial Armory Cleanup SOP.

NOTE: The only exception to these wet cleaning procedures is the use of an approved chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

    a. Use of a pre-treated (chemically treated) dust floor mop will prevent lead dust particles from being disbursed into the surrounding atmosphere.

    b. If a pre-treated dust mop is used – Do Not Shake Mop Head – have mop head laundered after use. **Always keep used dust mop heads in sealed double plastic bags when stored at an armory or facility.** Shaking of a pre-treated mop head may release unwanted contaminants into surrounding atmosphere.

2. Frequency of Cleanup – Armories will vary, according to usage and how often they should be cleaned. The following cleaning schedule is provided:

    a. Only full-time technicians and traditional soldiers using facility during the month. (Cleaned Monthly.)

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ENCLOSURE 6

b. Occasional activities taking place during the month, for example, 1-2 classes or volleyball games, etc. (Cleaned Twice Monthly.)

c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly – at least Weekly)

IMPORTANT NOTES:

1. **Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on the use of the Armory and IFR.**

2. **Clearance sampling/testing is to be accomplished by certified IH personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for whom you are cleaning and is not a converted IFR space, you may continue to utilize the Armory space before officials re-test this space. Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.**

3. **If lead cleanup work was contracted out, a third party should do the clearance sampling.**

4. **If young children and pregnant females are, or may be present, signs shall be posted on all facilities, warning of the potential danger of exposure to lead dust.**

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References

Army Regulation (AR) 11-34, The Army Respiratory Protection Program.

Army Regulation (AR) 40-5, Preventative Medicine.

Army Regulation (AR) 385-10, The Army Safety Program.

NGR 385-10, Army National Guard Safety and Occupational Health Program.

TB MED 503, The Army Industrial Hygiene Program.

Title 29, Code of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

TG 022, US Army Environmental Hygiene Agency (YSAEHA), Industrial Hygiene Evaluation Guide.

TG 141, US Army for Health Promotion and Preventative Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide.

IES Lighting Handbook

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Photo No. 1

Photo No. 2

Photo No.3

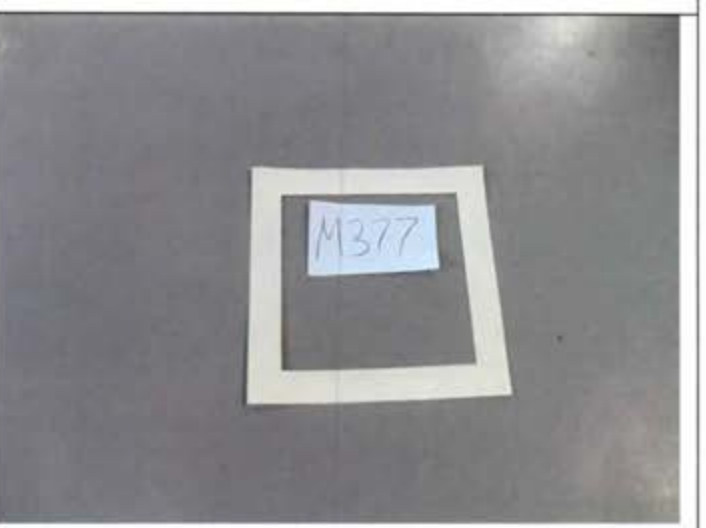

Photo No.4

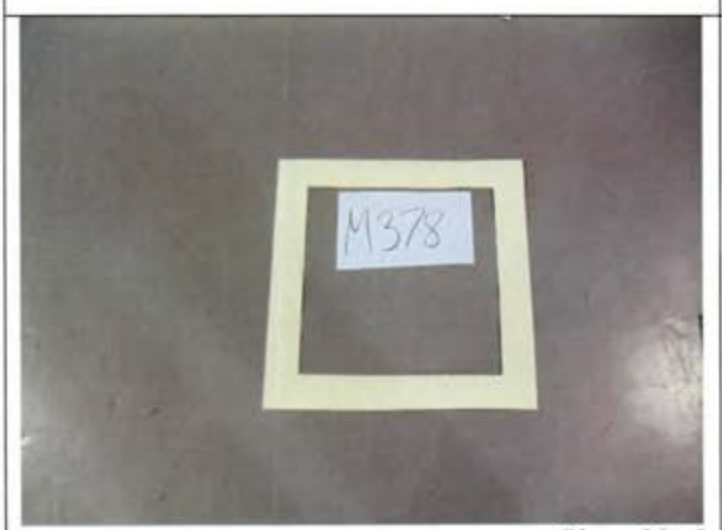

Photo No.5

Photo No.6

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Photo No.7

Photo No.8

Photo No.9

Photo No.10

Photo No.11

Photo No.12

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Photo No.13

Photo No.14

Photo No.15

Photo No.16

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Photo No.17

Photo No.18

Photo No.19

Photo No. 20

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Photo No.21

Photo No.22

Photo No.23

Photo No. 24

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

July 3, 2008

NGB-ARS-IHSE (40-5f)
July 3, 2008

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted], MS ARNG Dekalb Armory, P.O. Box 548, Dekalb, MS 39328-0548

Thru: Non-Responsive [redacted], State Health Systems Specialist JFH-MS-MILPO, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey Report MS ARNG Dekalb Armory, Dekalb, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

   b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

   c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

   d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

   e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

   f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

   g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

   h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

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i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

k. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

l. Reports dated April 30, 2008, Industrial Hygiene Survey, Non-Responsive Fayetteville, GA.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Dekalb Armory, Dekalb, MS.

b. The survey was conducted by Non-Responsive, 583 Ginger Cake Rd, Fayetteville, GA 30214.

3. Recommendations. Understand that all findings and the recommendations documented in the enclosed report have been reviewed by the Regional Industrial Hygienist. Follow all recommendations made in the enclosed report. Request industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-08. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-09 IHIP.

b. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

c. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

d. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

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NGB-ARS-IHSE (40-5f)
July 3, 2008
SUBJECT: Transmittal of Industrial Hygiene Survey Report MS ARNG Dekalb Armory, Dekalb, MS.

4. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive [redacted], Regional Industrial Hygienist, NGB-ARS-IHSE, Non-Responsive [redacted]

Non-Responsive [redacted]

Hygienist

CF: NGB-ARS-IHSE
Non-Responsive [redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.
[redacted]te Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
ENCL.
as

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[redacted]
583 GINGER CAKE RD
FAYETTTEVILLE, GA 30214
[redacted]

April 30, 2008

[redacted]
MS Army National Guard Armory
P.O. Box 548
Dekalb, MS 39328-0548

RE: Baseline Industrial Hygiene Survey

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FINAL REPORT

FOR

BASELINE INDUSTRIAL HYGIENE SURVEY

MISSISSIPPI ARMY NATIONAL GUARD

DEKALB ARMORY

DEKALB, MS

DATE:

APRIL 15, 2008

PREPARED BY

Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
Non-Responsive

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1.0 INTRODUCTION

2.0 INSTRUMENTATION

3.0 FINDINGS

4.0 REFERENCES

Attachment 1 HHIM Forms

Attachment 2 Laboratory Reports: A/C-Heating System, Weapons Vault Racks And IFR- Drill Hall

Attachment 3 Photographs of the Facility

Attachment 4 Weapons Vault and IFR Sampling areas

Attachment 5 Schematic Drawing of Facility

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1.0 INTRODUCTION

At the request of the National Guard Bureau South Region Industrial Hygiene Office, Angel M. Guardiola performed a Baseline Industrial Hygiene Survey at the MS ARNG Dekalb Armory. The purpose of the survey was to perform a baseline survey to evaluate health hazards, controls present in the work site, collect lead swipe samples from renovated/inactive or closed Indoor Firing Ranges, Weapons Vault, A/C-Heating System, illumination survey and to make recommendations regarding health hazards associated with the work at the Dekalb Armory.

The building was constructed in 1962. The building was remodeled in 2006-07. New flooring was installed in the kitchen, bathrooms and offices along with new ceiling tiles in the offices. Also a fire suppression system was installed throughout the facility. The facility houses the Det. 1 367th Maintenance. Co. The armory is used by the troops of the Det. 1 367th Maintenance. Co. for their monthly weekend drills.

The Det. 1 367th Maintenance. Co. with about 45 troops had 1 full time personnel at the time of the survey. The employee is assigned to perform administrative duties Monday-Friday 7:00am-4: 30pm. The facility houses administrative areas, classroom, a supply room with a weapons vault, a training room, deactivated indoor firing range, a kitchen and a drill hall. Personnel reported that the A/C-Heating unit in the supply room is not working well and may need repair work. Also that the belt of one of the exhaust ventilation fans in the drill hall broke. They have the replacement belt but it had not been installed on the day of the survey. A schematic drawing of the facility can be found in Attachment 5.

The facility was visually examined and personnel consulted to assess potential hazards present. Health Hazard Information Modules were completed. Illumination survey was performed throughout the facility.

2.0 INSTRUMENTATION/CALIBRATION

The following instrumentation was used to obtain light measurements. The instrument used has been calibrated and was operated according to the manufacturer's recommendations:

- SPER SCIENTIFIC Light Meter
  GHOST WIPE, Lead wipes

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3.0 FINDINGS

Illumination

Illumination levels were recorded in administration offices, classroom, training room, the kitchen, the drill hall and the supply room. Light measurements throughout the facility were above IES guidelines. See Light Readings Table at the end of this section.

Administration

Personnel perform administrative duties that consist of reading, handling and generating paper work personnel support in the areas of pay, orders, training and schools. Computer use comprises a large portion of the working day, four to five hours per day. This continuous use of computers can in the long run lead to eyestrain and hand/wrist soreness. Personnel interviewed reported no health problems at the time of the survey.

Motor Pool

The Dekalb armory has a motor pool which includes 5T trucks, 2.5T trucks, trailers and generators. The vehicles are kept locked in a fenced and locked area behind the building. PMCS are performed at the monthly weekend drills. When major repairs are needed the vehicles are taken to the FMS facilities located in Philadelphia or Grenada.

Drill Hall

There Drill Hall is located at the rear area inside the building. It is used for formation on weekend drills. The Drill Hall was mostly empty at the time of the survey. There is a weapons cleaning machine located the right side towards the rear of the Drill hall. Chairs, tables, boxes and fans are stored in the space where the IFR backstop and pit area were located. This is located at the rear right side of the Drill Hall next to the roll-up door. No vehicles are allowed inside the Drill Hall. Personnel reported that the Drill Hall is used to clean weapons about once or twice a year in and area close to the weapons cleaning machine. Weapons are distributed from the vault in the Supply Room. The machine is an IT48WC from Island Technology which uses Skysol dry cleaning solution. The weapons are oiled after with CLP and rags are used wipe out the excess oil. Personnel reported that the used rags are collected in double bags and taken to the FMS facility for disposal. There are two exhaust ventilation fans located close to the roof at the rear of the room. At the time of the survey, one of the fans has lost the belt. They have a new belt but it had not been installed yet. The Drill Hall is rented occasionally for outside activities such as family reunions, and parties. Renters may bring snacks or food. The kitchen is not used to cook but may use the sink.

Kitchen

The facility has a kitchen; however it is not used to cook on weekend drills since there is no mess section. Even though it has not been used, it was clean the day of the survey. A contract service for meals by a catering business has been used to provide meals on weekend drills. The food is picked up at the caterer. The food comes already in containers that are disposed of after eating and the tables cleaned. The troops eat in the classroom.

Deactivated Indoor Firing Range

There is deactivated Indoor Firing Range (IFR) at this facility. It was located inside the Drill Hall at the right side of this area. The backstop was located in a lower roof extension at the end of the Drill Hall to the right of the roll-up door (See Attachment 4). Personnel reported that it was probably "cleaned" between 1995 and 1997. The backstop was removed and the pit area was filled with concrete to level it up with the Drill Hall floor. Chairs, tables, boxes and fans are stored in the space where the IFR backstop and pit area were located. All lead samples were taken using a 10 inch by 10 inch template. The US environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. Three wipe samples were taken from where the backstop was and areas surrounding it (See Attachment 4, IFR sampling areas for locations). All of the samples were below the EPA clearance level of 40ug/ft2 and the NG Bureau limit of 200ug/ft2. See Table 1 for results.

Table 1

Sample Number	Sample Location	Results	
37	Floor in front, where bullet backstop was, right side, 72" from right wall	BRL	BRL
38	Floor, left side in the pit area, 56" from front	BRL	BRL
39	Floor, right side, 10'4" from the front	BRL	BRL
40	Blank	BRL	BRL

Weapons Vault

The Dekalb Armory has a weapon storage vault located in the supply room. Personnel stated that accountability and issuing of weapons would be performed in this area. As stated in the Drill Hall section, personnel reported that the Drill Hall is used to clean weapons about once or twice times a year in and area close to the weapons cleaning machine. (See Drill Hall section for details).The vault had a de-humidifier at the time of the survey. It is turned on all the time. It has no outside drainage. Personnel stated that it is emptied once a week. All lead samples were taken using a 10 inch by 10 inch template. The US environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. Four wipe samples were taken from the weapons vault racks and floor and on top of 50 Cal. weapons metal box (See attachment 4 for sampling areas). Three of the samples were above the EPA clearance level of 40ug/ft2 and above the NG Bureau limit of 200ug/ft2. See table 2 for results.

Table 2

Sample Number	Sample Location	Results	
33	Weapons Vault Rack and Floor (Rack 1 Attachment 4)	549ug	784ug/ft2
34	Weapons Vault Rack and Floor (Rack 2 Attachment 4)	823ug	1175ug/ft2
35	Weapons Vault Rack and Floor (Rack 3 Attachment 4)	332ug	474ug/ft2
36	Weapons Vault, Top of 50 Cal. weapons metal box	BRL	BRL
40	Blank	BRL	BRL

A/C System

Central A/C-Heating systems are used to cool the administration offices plus the classroom, training room and the supply room. The systems are about ten years old. Personnel reported that the systems work well in the summer and winter, except that the A/C is not working well in the supply room. Not blowing well. It may need repair work. Personnel also reported that the filters are changed on a regular basis. All lead samples were taken using a 10 inch by 10 inch template. Twelve wipe samples were collected from the supply air outlet grills from offices used by personnel of the armory and from the filters (See pictures). All samples

were below the EPA clearance level of 40ug/ft2 and the NG Bureau clearance level of 200ug/ft2. See Table 3 below for results.

Table 3

Sample Number	Sample Location	Results
21	A/C-Heating Outlet. Training Office	BRL
22	A/C-Heating Outlet, Personnel Office	BRL
23	A/C-Heating Filter, Fan Side, Training Office Unit	BRL
24	A/C-Heating Filter, Supply Side, Training Office Unit	BRL
25	A/C-Heating Outlet, Commander Office	BLR
26	A/C–Heating Outlet, Training Room	BRL
27	A/C-Heating Filter, Fan Side, Training Room Unit	BRL
28	A/C-Heating Filter, Supply Side, Training Room Unit	BRL
29	A/C-Heating Outlet, Classroom	BRL
30	A/C-Heating Filter, Fan Side, Classroom Unit	BRL
31	A/C-Heating Filter, Supply Side, Classroom Unit	BRL
32	A/C-Heating Outlet. Supply Room	BRL
40	Blank	BLR

Material Safety Data Sheets

The supply room located next to the drill hall. It has a weapons vault and storage area. There was an MSDS Book. It is kept at the front office. It has all the forms of chemicals that are stored in the flammable cabinet and the hazmat shed outside. The flammables cabinet, located in the Drill Hall, was locked. There was a Hazardous Materials Inventory List on top of the cabinet (See pictures). It was well organized with paints. The hazmat shed located behind the building, contains oil, CLP, break fluid, paint, degreaser and antifreeze. It was well organized. A Hazardous Materials Inventory List along with MSDS forms for the chemicals stored was found inside the shed.

Light Readings

Light measurements were taken in various locations throughout the facility. The results were compared to guidelines recommended by the Illuminating Engineering Society (IES). The results of the survey are shown in Table 4.

Table 4

Location	Light Reading (footcandles)	IES Recommendation (footcandles)
ADO SSG House Office	51-86 (Avg. 66)	50-100
ADO Personnel Office	79-140 (Avg. 104)	50-100
Classroom	82-201 (Avg. 135)	50-100
Training Room	80-208 (Avg. 135)	50-100
Kitchen	37-104 (Avg. 68)	50-100
ADO Supply Room Office	68-110(Avg. 86)	50-100
Supply Room (Storage)	53-129 (Avg. 79)	20
Commander Office	53-172 (Avg. 103)	50-100
Drill Hall	30-75 (Avg. 40)	30

Light measurements throughout the facility were above IES guidelines. ANSI RP7-1991.

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4. REFERENCES

- Guide to Occupational Exposure 2000, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.
- Title 29, Code of Federal Regulations (CFR). 2000, revision, Part 1910. Occupational Safety and Health Standards
- AR 40-5, Preventative Medicine, 15 October 1990.
- AR 385-10, The Army Safety Program, 23 May 1988.
- National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 40-503, The Army Industrial Hygiene Program, 30 October 2000.
- Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.
- Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

Non-Responsive

[redacted]

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RECOMMENDATIONS

- Recommend that a new belt be installed in the exhaust ventilation fan that the belt was broken if it has not been done yet.

- Recommend that when using computers for extended periods of time, personnel should take occasional breaks and change position to minimize the possibility of eyes and/or hands/wrist injury.

- Continue to ensure that weapon maintenance and cleaning is done in a well-ventilated area. Continue to practice good personal hygiene by washing hands after handling and cleaning weapons and ammunition. Ensure that the weapons racks are well cleaned before placing them back in the vault.

- Recommend that the A/C-Heating unit in the supply room be inspected and repaired if needed, if it has not been done yet.

- Ensure that personnel and troops have knowledge of the location of the MSDS book. And is enrolled hazardous materials safety training.

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ATTACHMENT 1

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(For use of this form, see IHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

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a. ARLOC _____ b. INSTALLATION Dekalb, MS Army c. BLDG/RM NUMBER Training Office

d. LOCATION/CODE AA 151 e. OPERATION/CODE 4B 3AH f. DESCRIPTION

Adm work, Supply, Computer work about 40.5 hr/Day.

g. MACOM/CODE NG h. [redacted] CODE _____ i. SUPERVISOR [redacted]

j. TELEPHONE/AUTOVON NUMBER [redacted] k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO [redacted] o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

Non-Responsive

SECTION 2. IH STAFFING DATA

a. LAB HOODS — b. VAPOR DEGREASERS — c. MAINTENANCE BAYS — d. SPRAY BOOTHS —

e. OPEN SURFACE TANKS — f. VENTILATION UNITS —

SECTION 3. SURVEY DATA

a. SURVEY DATE 4-15-08 b. EVALUATOR (INITIALS) [redacted]

Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting Office	51-86; Avg: 66	FC	50-100	Adequate
Lighting Supply Stage	53-129; Avg: 79	FC	20 FC	Adequate

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
P0 1DT	Computer use for long periods of time - Eye/hand	3	
P0 LIFTING	Heavy Lifting	3	
P0 FOOT HAZ	Foot Injury	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SEN	d. CATEGORY
Non-Responsive [redacted]					AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Readiness NCO + Supply Sgt. (until a new person comes that is training)
② Has been at this facility ~~since~~ (Full Time) @ 5 (Jan 2005)
③ Before as at the unit as a well loved soldier since 91
④ Computer use about 4-5 hrs/day
⑤ No health problem soon medication for anything

* PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitor

Signature

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ATTACHMENT 2

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Analytical Environmental Services, Inc.

Date: 4/25/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: Non-Responsive
Project: Dekalb, MS Armory
Delivery Order:
PO No:

Lab Order: 0804C13
Date Received: 4/18/2008 1:00 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0804C13-001A	21	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-002A	22	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-003A	23	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-004A	24	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-005A	25	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-006A	26	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-007A	27	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-008A	28	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-009A	29	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-010A	30	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-011A	31	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-012A	32	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-013A	33	549	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-014A	34	823	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-015A	35	332	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-016A	36	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-017A	37	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-018A	38	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-019A	39	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY
0804C13-020A	40	BRL	µg, Total	20	1	4/15/2008	4/21/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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ATTACHMENT 3

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DEKALB, MS ARMORY

DRILL HALL, (THE SPACE AT RIGHT IS WHERE THE BACKSTOP & PIT WERE LOCATED)

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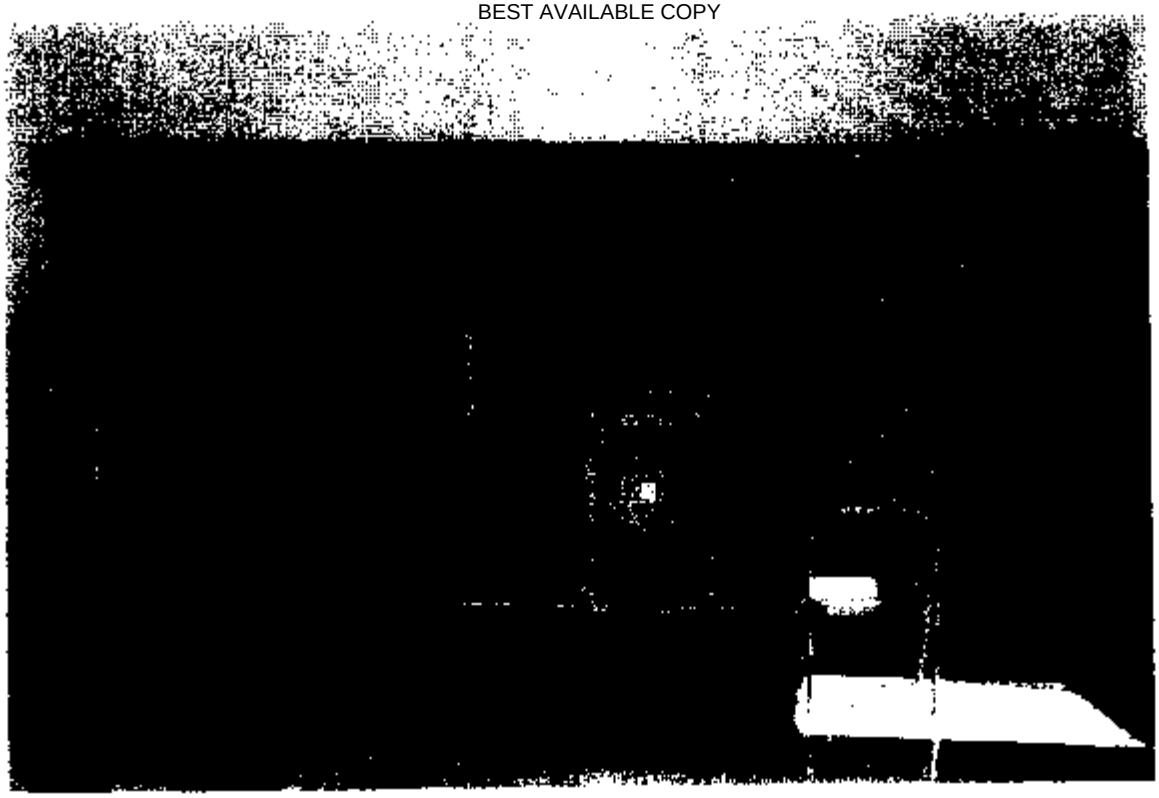

CONVERTED IFR, FRONT VIEW FROM DRILL HALL

CONVERTED IFR SAMPLE AREA 38

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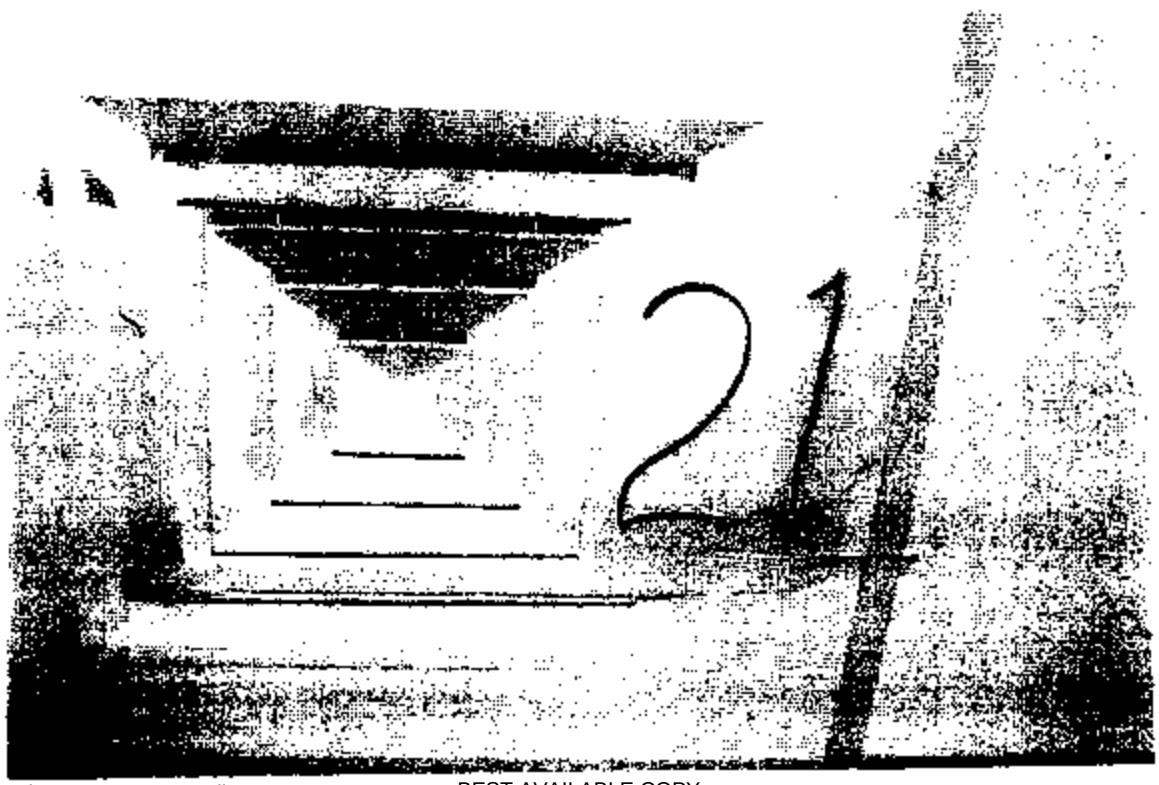
[redacted]

CONVERTED IFR
SAMPLE AREA 39

A/C-HEATING OUTLET
TRAINING OFFICE,
SAMPLE 21



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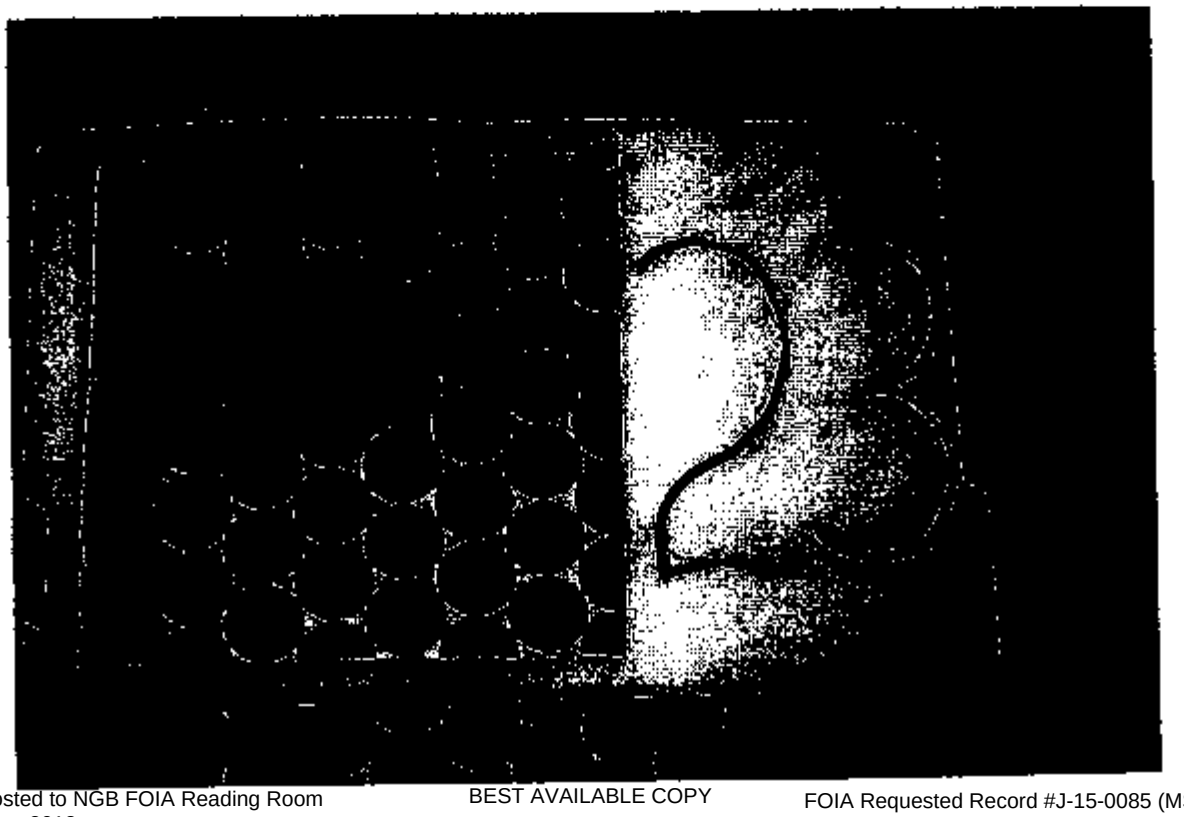
A/C-HEATING OUTLET PERSONNEL OFFICE, SAMPLE 22

A/C-HEATING FILTER, SAMPLE 23



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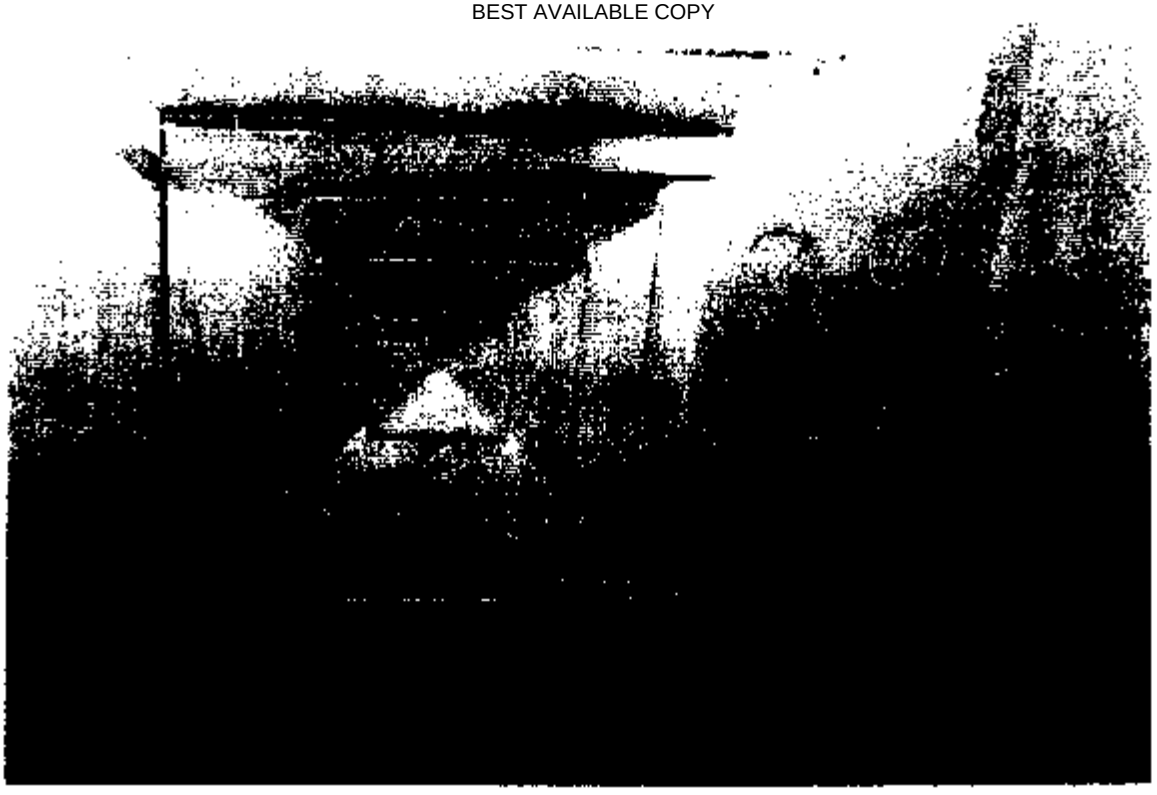
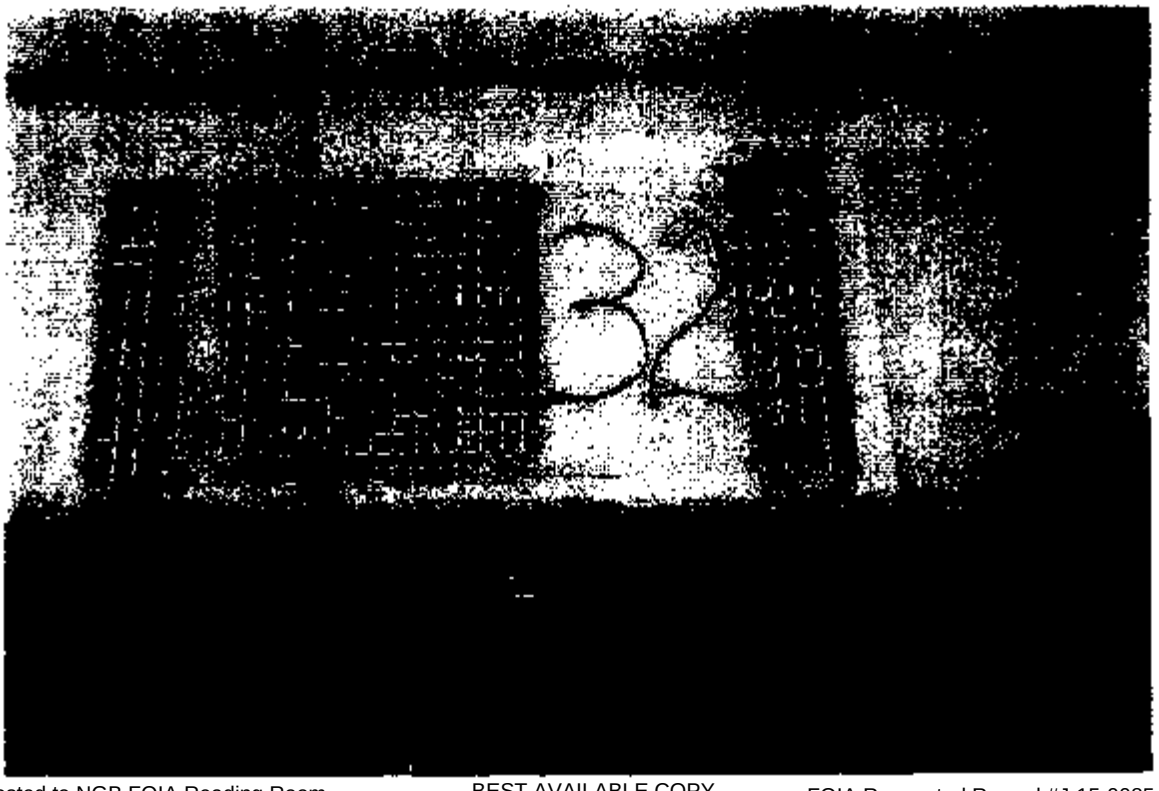


A/C-HEATING OUTLET CLASSROOM & SUPPLY ROOM, SAMPLES 29 & 32



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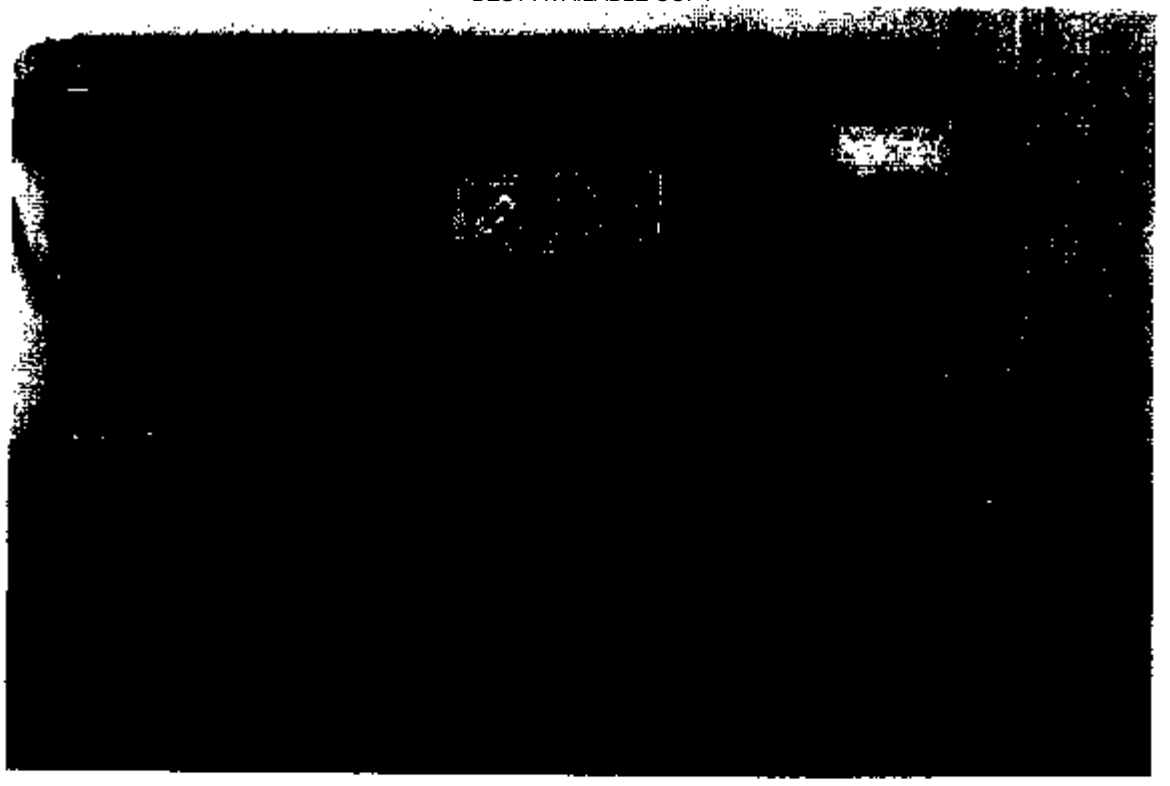

WEAPONS CLEANING MACHINE

WEAPONS VAULT, SAMPLE 33

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[redacted]

WEAPONS VAULT,
SAMPLES 34 & 35

[redacted]

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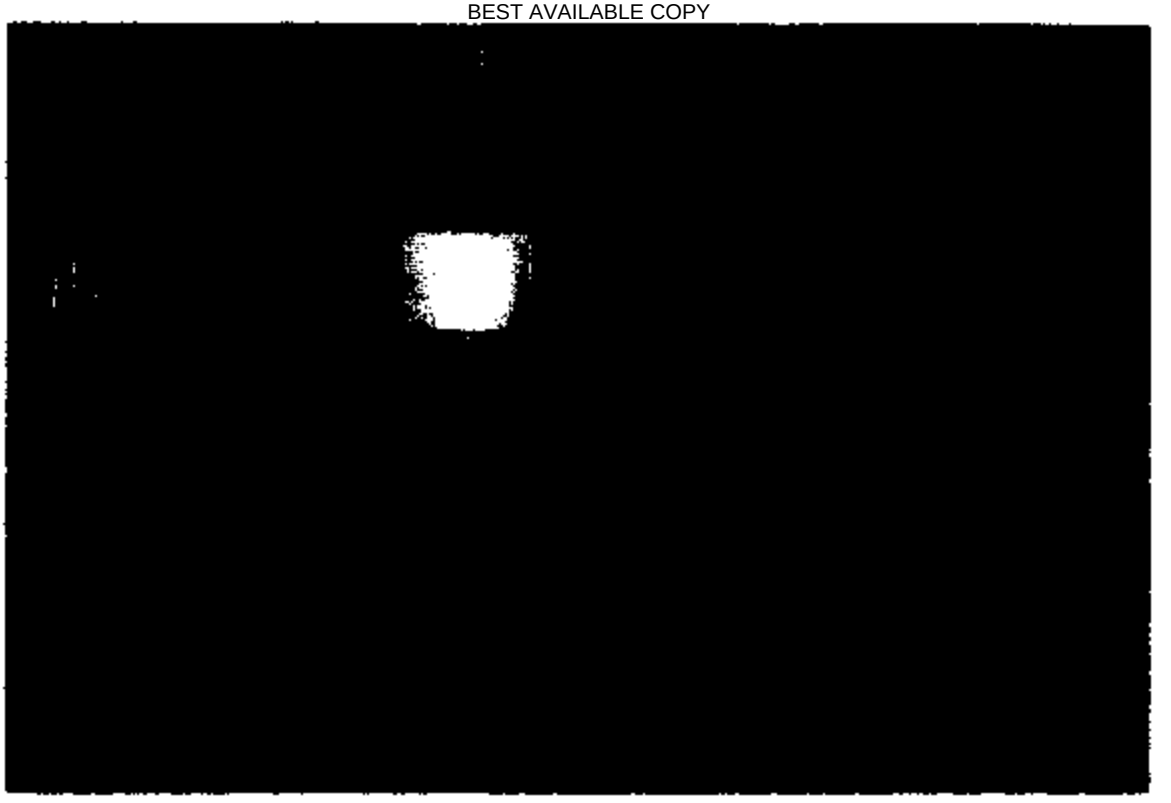
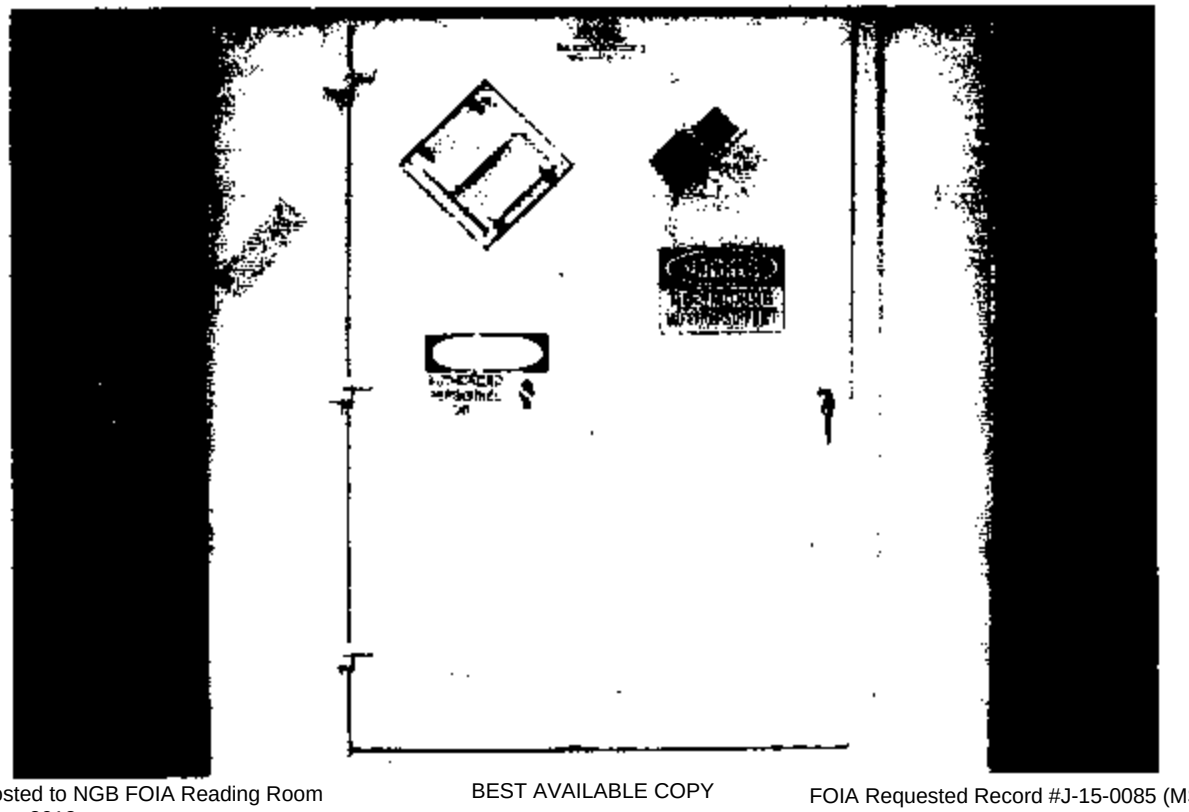


FLAMMABLES CABINET (HAZARDOUS MAT. INVENTORY LIST ON TOP)

HAZMAT SHED



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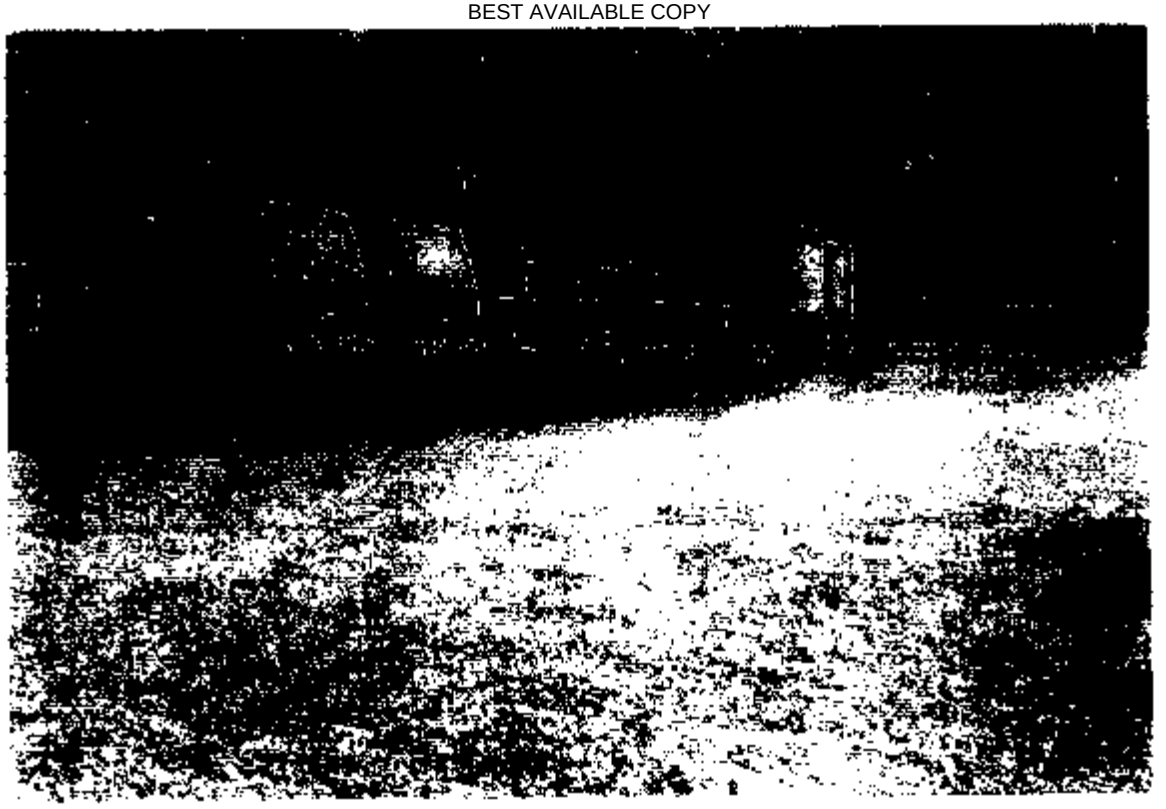

MOTOR POOL

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ATTACHMENT 4

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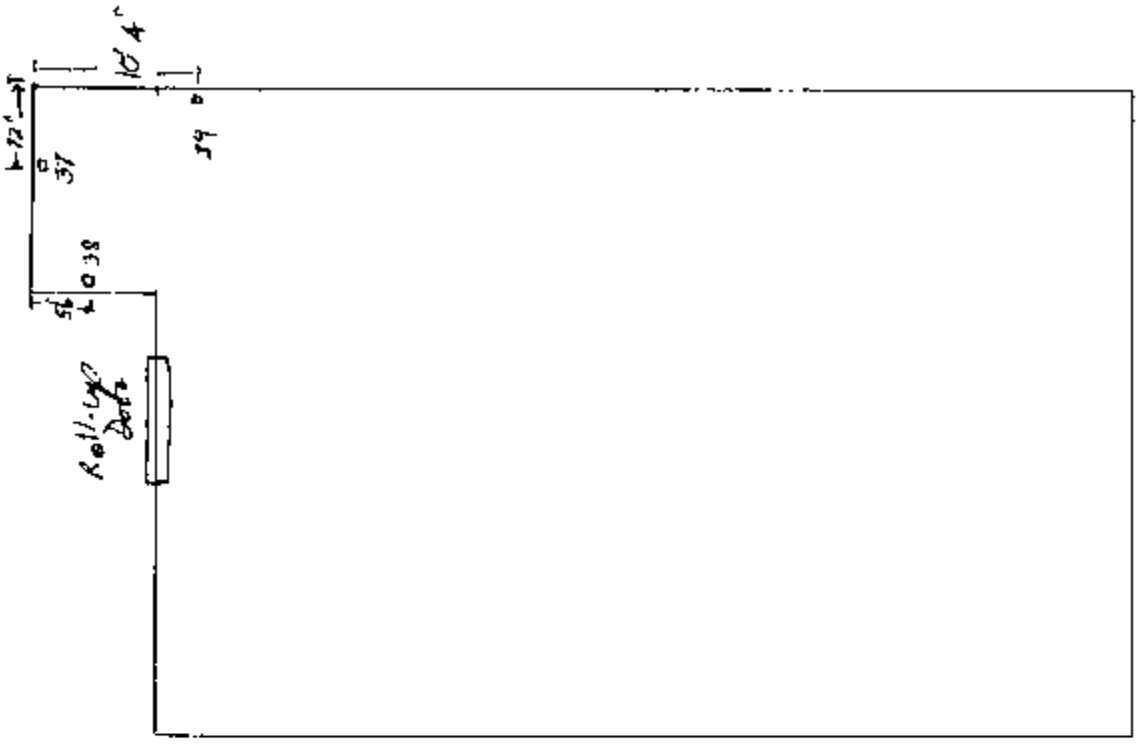
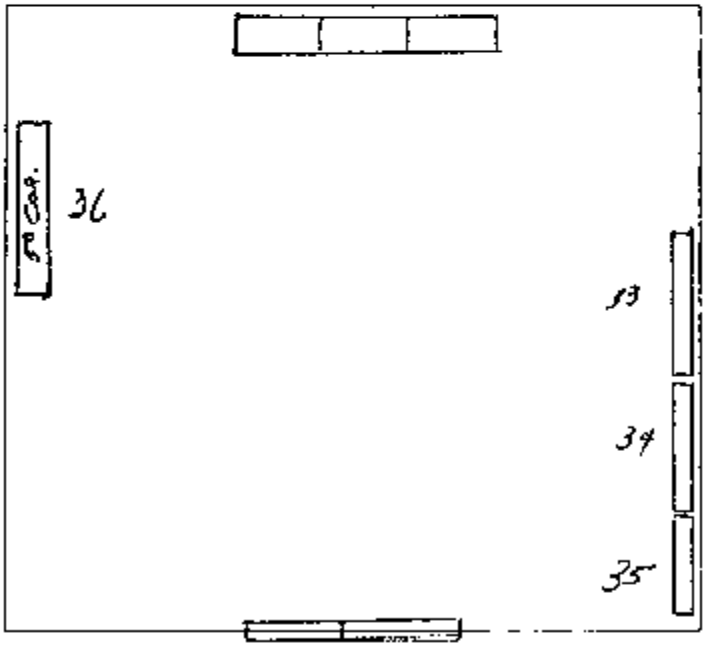


Converted IFR Sampling Areas



Weapons Vault Sampling Areas

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ATTACHMENT 5

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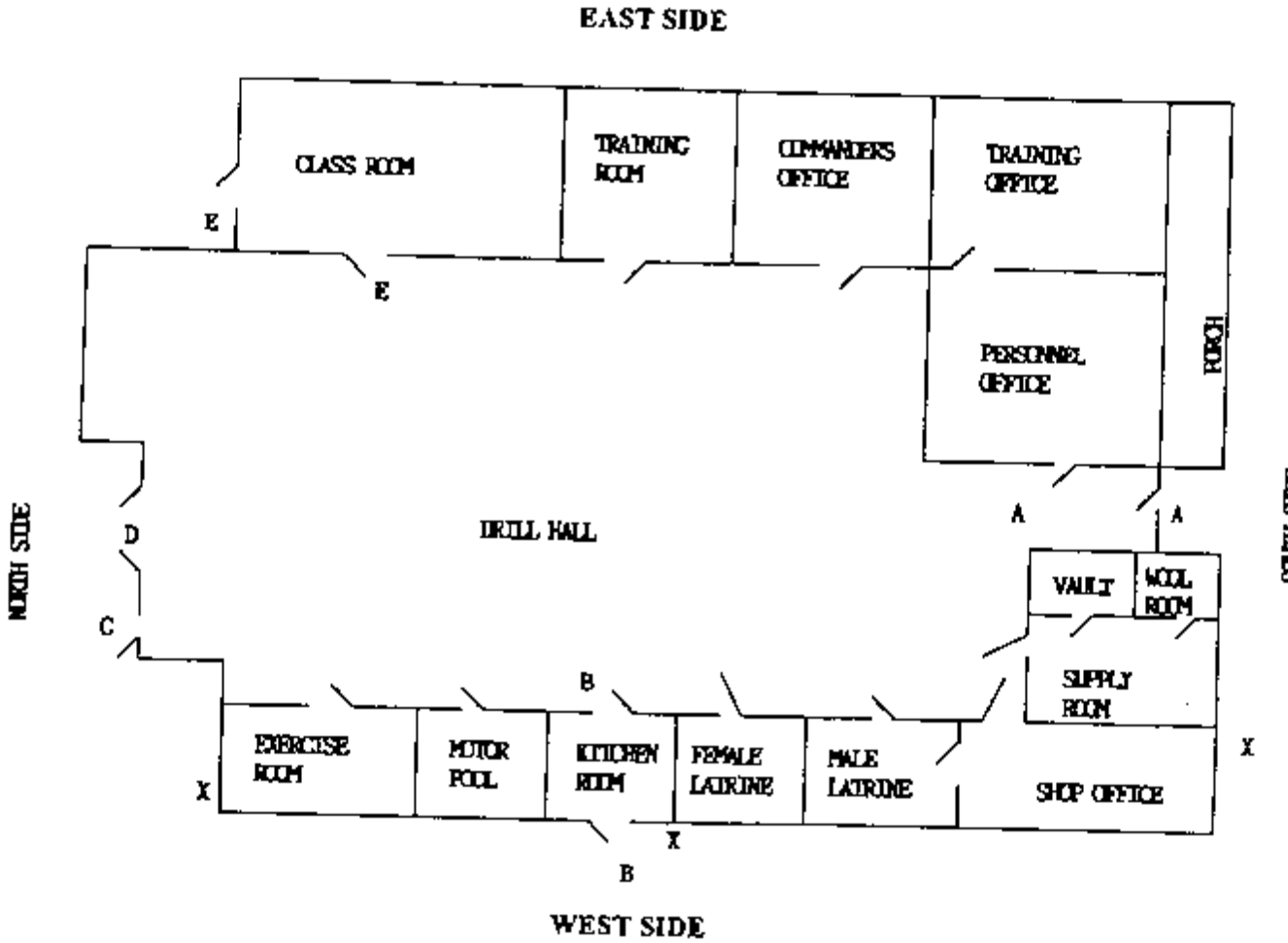
Dekalb, MS. Armory

FIRE PLAN

FIRE PLAN

REVISED: 6 December 2006



WEST SIDE OF BUILDING

EXITS are located at A, B, C, D, and E. Follow the colored Line to EXIT
The X Denotes your location in this building. Water outlets for Water Hose = X

1. **IN CASE OF FIRE notify CO and/or Full-Time Personnel and give location of fire.**
2. **CALL FIRE DEPARTMEN, Phone #601-743-4930 or call the Sheriff's office at 601-743-2255**
3. **FIRE EXTINGUISHERS are located in the Drill Hall, Supply Room and Kitchen.**

NOTE: Mark a colored line from the room this plan is located to exit prior to installing FIRE PLAN in that room on the door and MASTER PLAN on Bulletin Board.

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI August 29, 2003

MEMORANDUM FOR: The Adjutant General of Mississippi, ATTN: Drew Armory Manager, 4127 Highway 49 West, Drew, MS 38737

SUBJECT: Transmittal of IH Survey Report of the Drew Armory in Drew, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

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k. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

l. Report dated 15 August 2003, Industrial Hygiene Survey, Non-Responsive of Tamar Industrial Hygiene Consulting.

2. General.

a. At the request of the MS ARNG Safety and Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling of the Drew Armory in Drew, MS.

b. The surveys were conducted by Non-Responsive of Tamar Industrial Hygiene Consulting, Naperville, IL

3. Findings. All HHIM field survey forms and survey findings of the report. (See enclosure 1)

4. Recommendations.

a. Follow all recommendations made in reference 1.l., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Control water infiltration in the armory and/or replace or repair damaged surfaces or components (ceiling and floor tiles). Building conditions that present IAQ concerns or problems not only exacerbates normally minor health issues but also tend to promote or accelerate building deterioration.

c. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-03. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-04 IHIP.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

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NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Drew Armory in Drew, MS.

f. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

5. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive

Non-Responsive

CF:
NBG-AVN-SH
State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.
State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Drew Armory
4127 Highway 49 West
Drew, MS 38737

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive CIH PE
Tammer Sciences, Inc.

August 15, 2003

Posted to NGB FOIA Reading Room
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- Introduction
- Site Description
- Scope of Work
- Methodology

Findings & Discussion

- Lead Wipe Samples ..... Page 3
- Asbestos Suspect Building Material ..... Page 3
- Noise Survey ..... Page 4
- Illumination Survey ..... Page 5
- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
- Recommendations ..... Page 6

Appendices

A. Photographs and Floor Layout.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. References.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Drew Armory on 17 June 2003 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<10 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	Noise levels were less than 50 dBA.	No action.
Illumination Survey	10 to 70 footcandles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room.	Consider replacing the wood with metal.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Drew Armory in Drew, Mississippi on 17 June 2003

BACKGROUND:

Introduction. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Drew Armory in Drew, Mississippi. Non-Responsive, contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 17 June 2003. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1986 and occupied in 1990, houses Battery A, and the 1-114 FA. Two full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, training or classrooms, a drill hall, a supply room, an FDC Room, an exercise room, a storage room, and a converted firing range. The floor layout and photos are included in Appendix A.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Quest Sound Level Meter Model 2400 Serial Number J10174219, with a calibration date of June 4, 2002. All noise measurements were area readings. Illumination readings were collected using a digital light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was SFC Reed.

Lead Wipe Samples: Fourteen wipe samples were collected from the converted IFR and select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
DRW01	Floor Sample in Front or Bullet Trap in IFR.	<10
DRW02	Top of Paint Containers Stored in the IFR.	<10
DRW03	Top of Microwave Stored in IFR.	<10
DRW04	Top of Filing Cabinet By the firing line in IFR.	<10
DRW05	Top of Soda Machine in Drill Hall.	<10
DRW06	Top of Water Fountain in Drill Hall.	<10
DRW07	Top of Serving Window Shelf Between Drill Hall and Kitchen.	<10
DRW08	Top of Ice Maker in Kitchen.	<10
DRW09	Top of Cabinet in Exercise Room.	<10
DRW10	Top of Shelf in FDC Room.	<10
DRW11	Supply Diffuser in Administrative Office Area.	<10
DRW12	Return Air Grill in Administrative Office Area	<10
DRW13	Top of Cabinet in Commanders Office.	<10
DRW14	Field Blank.	<10

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

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Asbestos Suspect Building Material: Five types of building materials were identified as potentially containing asbestos. The identified types included two types of 12 by 12 inches floor tiles and baseboard, and 2x2 feet ceiling tiles. A total of five bulk samples were collected randomly from the identified materials. Other construction material consisted of cement floors and cinder block walls. The table below lists the samples collected and the results:

Sample #	Description	% Asbestos Type
DRA01	12x12 inch floor tile typical of classroom and FDC Room.	None.
DRA02	Baseboard typical of classroom and FDC Room.	None.
DRA03	12 by 12 inch Floor Tile typical of Office area.	None.
DRA04	Baseboard typical of office area	None.
DRA05	2x2 feet ceiling tile typical throughout Armory.	None.

The laboratory report and chain of custody forms are attached in Appendices B and C.

Noise Survey Area noise readings were collected in the various surveyed areas within the armory and reported as a range. The Table below lists the noise reading ranges as recorded on the day of the survey:

Area	Reading in Decibels on the A-Scale (dBA)
Maintenance Area	<50
Facility Maintenance	<50
NBC/Equipment Storage	<50
Exercise Room	<50
Classroom 3	<50
Classroom 2	<50
Classroom 1	<50
FDC Room	<50
Office Area	<50
Individual Offices	<50
Converted IFR	<50
Kitchen	<50

All readings are well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

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Illumination Survey Lighting levels throughout the Armory ranged between 10 foot-candles to 70 foot-candles. Specific readings were as follows:

Area	Reading in Foot-candles
Maintenance Area	20 – 30
Facility Maintenance	20 – 30
NBC/Equipment Storage	20 – 30
Exercise Room	10 – 30
Classroom 3	40 – 50
Classroom 2	40 – 50
Classroom 1	40 – 50
FDC Room	50 – 70
Office Area	50 – 60
Individual Offices	60 – 70
Converted IFR	40 – 60
Kitchen	20 – 30

All readings are within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of one forced air unit located in a mechanical room. The system is capable to deliver outside makeup air to the occupied space. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure. No complaints of indoor air quality issues were documented or communicated with the POC.

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Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive [redacted], Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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Photo #1: Drew Armory Front Entrance.

Photo #2: Another View of the West Side or Front.

Photo #3: A View of the North West side of the Armory.

Photo #4: View of the South Side of the Armory.

Photo #5: Drill Hall.

Photo #6: Another view of the Drill Hall Facing North.

Photo #7: Converted Firing Range Facing East.

Photo #8: Converted Firing Range Facing West Showing Items Stored.

Photo #9: Kitchen.

Photo #10: Another View in the Kitchen.

Photo #11: 12 by 12 inches Floor Tiles.

Photo #12: Baseboard Sampled as a Suspect Asbestos Containing Material.

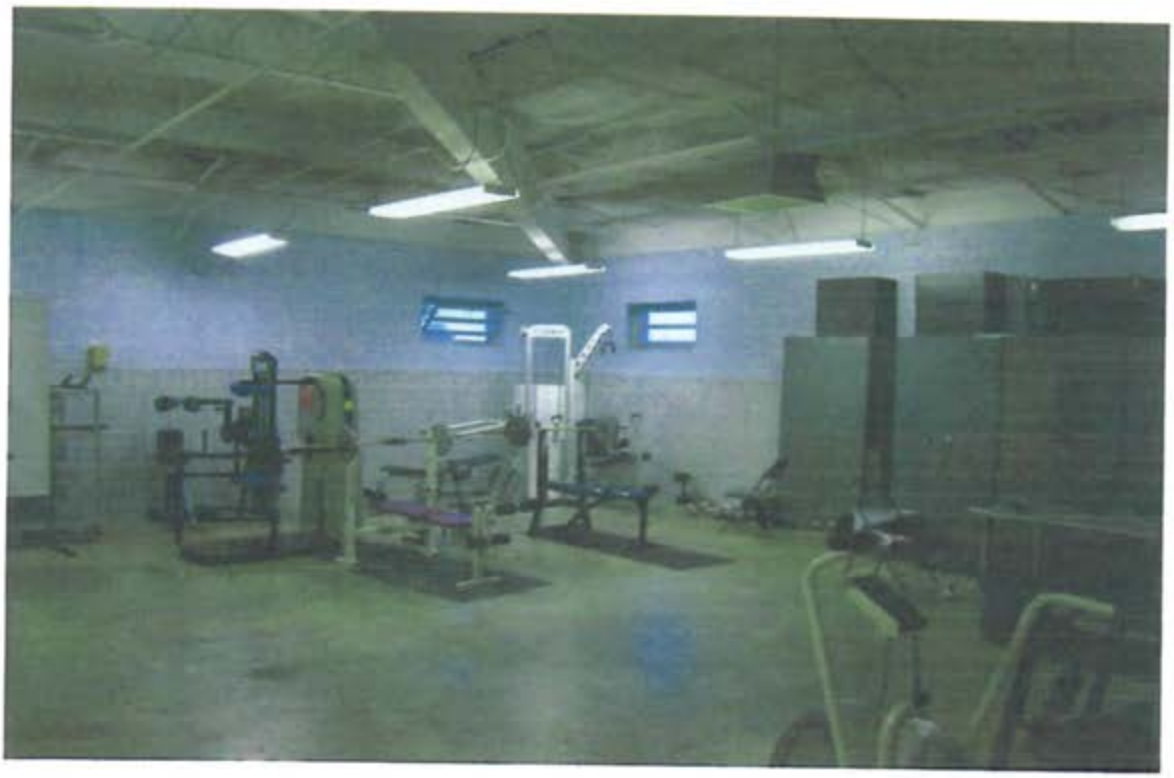


Photo #13: Exercise Room.

Photo #14: Training or Conference Room.

Photo #15: Furnace used to Air Condition Armory. Note the Wood Common return Plenum.

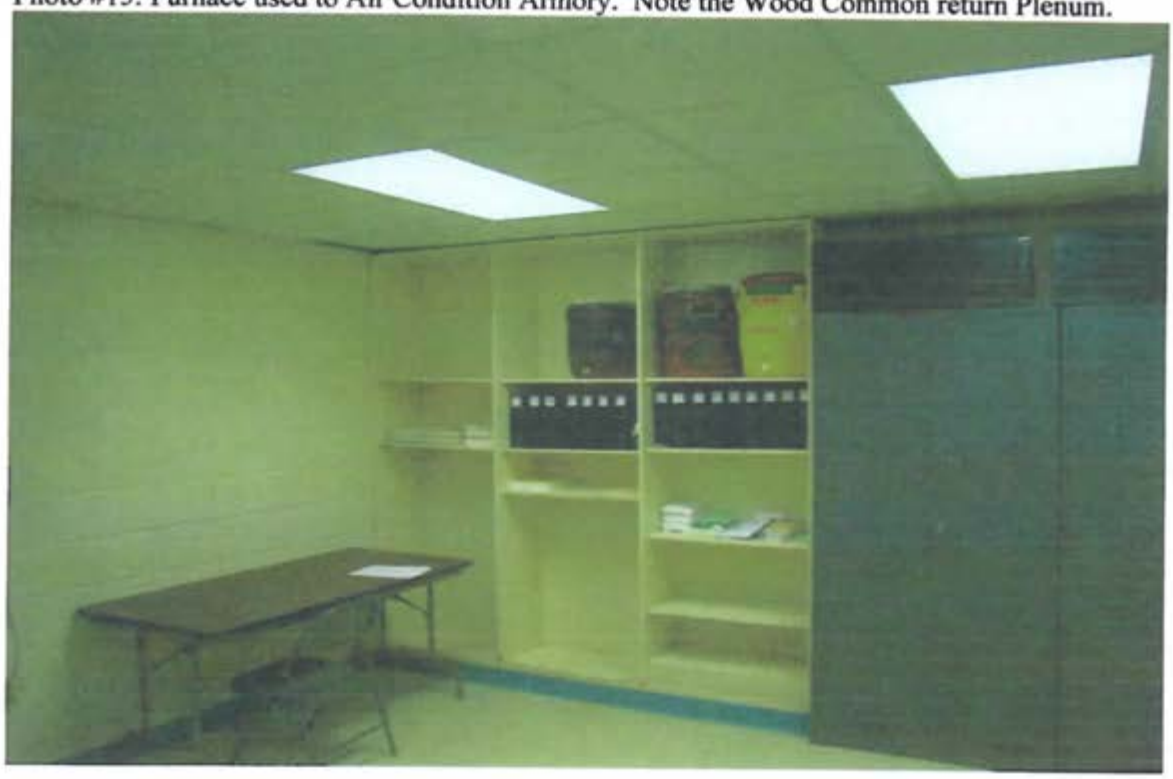
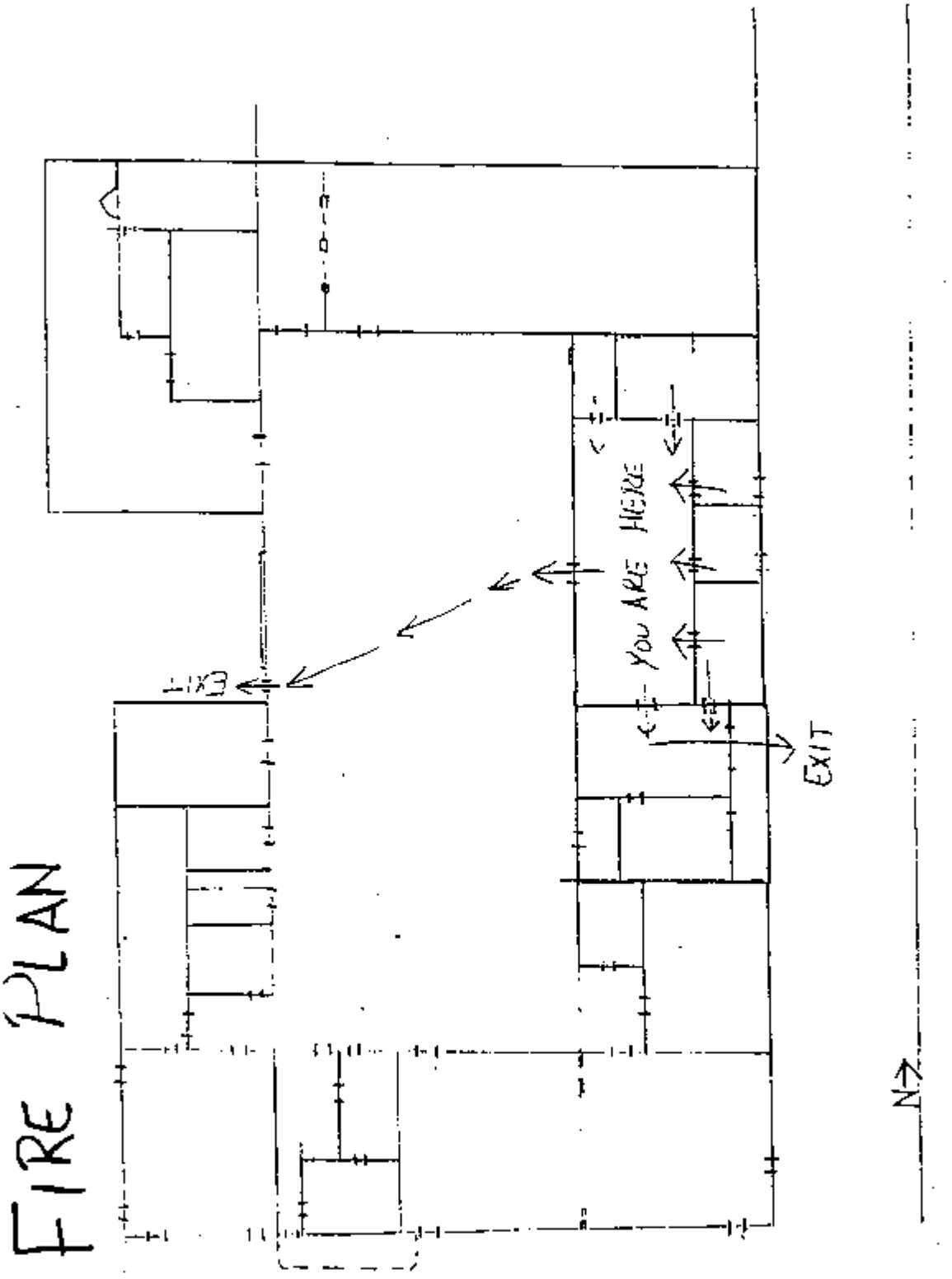


Photo #16: FDC Room Shelves were sampled.

Photo #17: 2x4 Ceiling Tiles Showing Water Stains.

Photo #18: Drill Hall Ceiling Tiles Showing Water Stains.


FIRE PLAN
YOU ARE HERE
EXIT
EXIT
N

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APPENDIX B

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EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-8561 Email: gmiller1@emsl.com

EMSL

Attn: Tammer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: (630) 369-7957 Phone: (630) 369-7956
Project: Drew Armory

Customer ID: TS80
Customer PO:
Received: 06/23/03 10:49 AM
EMSL Order: 200306547
EMSL Project ID:

Lead in Wipes by Flame AAS (SW 846, 7420)

Client Sample Description		Lab ID	Analyzed	Area Sampled	Lead Concentration
DRW01	Results for these wipe samples do not meet the EPA standards for sample matrix and are not recognized under the NLLAP accreditation program	0001	7/7/03	144 in²	<10.0 µg/ft²
DRW02		0002	7/7/03	144 in²	<10.0 µg/ft²
DRW03		0003	7/7/03	144 in²	<10.0 µg/ft²
DRW04		0004	7/7/03	144 in²	<10.0 µg/ft²
DRW05		0005	7/7/03	144 in²	10.0 µg/ft²
DRW06		0006	7/7/03	144 in²	<10.0 µg/ft²
DRW07		0007	7/7/03	144 in²	<10.0 µg/ft²
DRW08		0008	7/7/03	144 in²	<10.0 µg/ft²
DRW09		0009	7/7/03	144 in²	<10.0 µg/ft²
DRW10		0010	7/3/03	144 in²	<10.0 µg/ft²
DRW11		0011	7/3/03	144 in²	<10.0 µg/ft²
DRW12		0012	7/3/03	144 in²	<10.0 µg/ft²
DRW13		0013	7/3/03	144 in²	<10.0 µg/ft²
DRW14		0014	7/3/03	144 in²	<10.0 µg/ft²

Non-Responsive

[redacted]

AIHA: 100194
or other approved signatory

The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comment section.
ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194

Date Printed: 7/7/03 4:45:11 PM

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EMSL Analytical, Inc.
107 Haddon Ave. Westmont, NJ 08108
Phone: (856) 853-4300 Fax: (856) 858-4960 Email: salegal@EMSL.com

EMSL

Attn: Non-Responsive
Transfer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: (630) 369-7957 Phone: (630) 369-7956
Project: MSARNG

Customer ID: TS80
Customer PO:
Received: 06/25/03 5:33 PM
EMSL Order: 040310558
EMSL Project ID:
Analysis Date: 7/3/2003

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
DRA01 040310558-0001		Tan Non-Fibrous Heterogeneous	Crushed Dissolved	2% Cellulose	98% Non-fibrous (other)	None Detected
DRA02 040310558-0002		Blue Non-Fibrous Heterogeneous	Dissolved		100% Non-fibrous (other)	None Detected
DRA03 040310558-0003		Blue Non-Fibrous Heterogeneous	Crushed Dissolved		100% Non-fibrous (other)	None Detected
DRA04 040310558-0004		Blue Non-Fibrous Heterogeneous	Dissolved		100% Non-fibrous (other)	None Detected
DRA05 040310558-0005		Tan/White/Blue Fibrous Heterogeneous	Teased	40% Cellulose 2% Glass	58% Non-fibrous (other)	None Detected

Analyst(s)

Kristy Reeves (5)

Non-Responsive

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples received as [illegible] or trace detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLM-1

THIS IS THE LAST PAGE OF THE REPORT.

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APPENDIX C

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2003 06547

LEAD

EMSL ANALYTICAL CHAIN OF CUSTODY

Date: _____ EMSL Representative: _____ Project Name/No.: _____ P.O.#: _____

Company Name: Tammer Sciences, Inc. EMSL-Bill to: Same as

Street: 3744 Lawrence Drive Street: _____

Box #: _____ Box #: _____

City/State: Naperville, IL Zip: 60564 City/State: _____ Zip: _____

Phone Results to: (Name) _____ Telephone: [redacted]

Fax Results to: (Name) [redacted] Fax #: _____

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod. / AOAC (974.02)	Flame Atomic Absorption	0.01% ++	
Lead Wastewater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☐-ASTM List Wipe Type ☐-non ASTM	SW846-7420 / HUD Appendix 14.2 Digest.	Flame Atomic Absorption	10 ug/wipe	6-10
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 66261.126 / SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead Wastewater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.3 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification Requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

^ If no box is checked, non-ASTM is assumed

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
See attached.			

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/23/03 KTT L-6

Received at EMSL By: _____ Date: _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 w STLC.doc

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2006677

EMSL ANALYTICAL CHAIN OF CUSTODY LEAD

SAMPLE #	LOCATION	Air volume, L Area, in^2	LAB #
		144 in 2	665471
DRW01			2
DRW02			3
DRW03			4
DRW04			5
DRW05			6
DRW06			7
DRW07			8
DRW08			9
DRW09			10
DRW10			11
DRW11			12
DRW12			13
DRW13			14
DRW14			

@ Relinquished By: (Person) Non-Responsive Date: 6/20/03

Received at EMSL By: Date: 6/23/03 1047 hrs

Received at EMSL By: Date:

Note: Please duplicate this form and use additional sheets if necessary.

@: The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 vv STLC.doc

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Asbestos

CHAIN OF CUSTODY

EMSL Analytical, Inc.
Revised 07/07/99

0403105 58

EMSL Rep:

Third Party Billing requires written authorization from third party

Your Company Name: Tremmer Sciences, Inc.
Street: 3744 Lawrence Drive
Box #:
City/State: Naperville, IL Zip: 60564

EMSL-Bill to: Same
Street:
Box #:
City/State: Zip:

Phone Results to:
Name: Non-Responsive [redacted]
Telephone #:

Fax Results to:
Name: Non-Responsive [redacted]
Fax #:
Purchase Order #:

Project Name/Number: MSARNG

MATRIX			TURNAROUND			
☐ Air	☐ Floor Tile	☐ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☑ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☐ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☑ 144+ hours 6-10 Days			

TEM AIR 3 hours, 6 hours. Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon - Fri.). Please Refer to Price Quote

PCM - Air
- ☐ NIOSH 7400
- ☐ OSHA
- ☐ Other:

TEM AIR
- ☐ AHERA
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM WATER
- ☐ Wastewater
- ☐ Drinking Water EPA 100.1
- ☐ Water - NY Wastewater
- ☐ Water-NY Drinking Water

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NY 198.1
- ☐ Other:

TEM BULK/wipe
- ☐ Drop Mount (Qualitative)
- ☐ TEM NOB (Gravimetric) NY 198.4

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

TEM MICROVAC / WIPE
- ☐ ASTM D 5755-95 quantitative filtered

XRD
- ☐ Asbestos
- ☐ Silica

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

OTHER
- ☐

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)

Total Samples #: 5

Client Sample # (s): DRA01 DRA05

Relinquished: Non-Responsive [redacted] Date: 6/20/03 Time:

Received: Date: Time:

Non-Responsive [redacted]

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APPENDIX D

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FOIA Requested Record #J-15-0085 (MS)
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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 47000
Installation:
Building: ARMORY
Room Number:
Location:
Operation:
Survey Date: month 03 day 06 17
Evaluator-HNUS:
Macom: XX
Submacom: NG
Unit / Organization (45): Battery A 1-114 FA Drew, MS
RAC:
[redacted]
DSN:
Commercial:
Frequency (hrs/day):
No. CIVs:
No. MIL: 02
Contractors:
No. LOCs:
Lab Hoods:
Vapor Degreasers:
Spray Booths:
Open Surface Tanks:
Ventilation Units:

Controls Present (if >6, continue in comments)(25)	Evaluation (25 characters max)	Unit code	Controls Required (25 characters max)
N/A	N/A		N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Manufacturer's Description (10 characters max)

NIOSH TC # or Foreign equivalent (10 characters max)

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAB code	PAC	EPC	Hazard Description
PONOISECO	7 4 3 9 - 9 2 - 1			Lead dust
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLLBLOR				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments — Remember to comment on problems, recommendations, and needed control items

Operation described is

Small Fire arms cleaning tasks in the drill Hall

☐ (comments continued on attached)

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐

There is a ventilation data sheet attached to this form ☐

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APPENDIX E

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REFERENCES

1. American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23rd Edition, 1998.

2. American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

3. American National Standards Institute, Z358.1-1998. Emergency Eyewash and Shower Equipment 1998.

4. Army Regulation (AR) 11-34, The Army Respiratory Protection Program, 1990

5. Army Regulation (AR) 40-5, Preventative Medicine, 15 October 1990.

6. Army Regulation (AR) 385-10, The Army Safety Program, 23 May 1988.

7. National Fire Protection Association (NFPA) No. 30, Standard for Flammable and Combustibles Liquid Code, 1996.

8. National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.

9. NGR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

10. TB MED 503, The Army Industrial Hygiene Program, February 1985.

11. Title 29, Code Of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

12. TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

13. TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI May 30, 2000

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Drew, MS Armory Indoor Firing Range wipe sample results.

1. References.

   a. 385-10, Army Safety Program

   b. National Guard Regulation, AR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft March 2000

   c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

   d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

   e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range at the Drew, MS Armory by Non-Responsive are enclosed.

3. Findings. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require decontamination of the Drew, MS Armory firing range.

4. Recommendations.

   a. Use the present results as baseline level prior to decontamination.

   b. To initiate corrective action use the sample results as a guide when:

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i. determining which ranges and what items stored in the ranges must be decontaminated.

ii. determining acceptance of ranges after housekeeping clean up and/or decontamination of a range.

c. Closely follow all recommendations in References 1.b and 1.c when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

d. Provide scheduled housekeeping cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust (see reference 1.c).

e. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

5. If additional information is needed about industrial hygiene services or lead wipe sample results; please contact Mr. Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, 1-ercial Non-Responsive

Non-Responsive

Regional Industrial Hygienist

ENCL.
as

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 19, 2000

Non-Responsive
GA Army National Guard
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: Non-Responsive
FAX [redacted]

RE: DREW ARMORY

Order No.: 0005285

Dear Non-Responsive

Analytical Environmental Services, Inc. received 21 samples on 5/15/00 8:15:00 AM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Laboratory Manager

CC:

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record # U-15-0005 (MS)
Released by National Guard Bureau

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Project Name: MS, DREW ARMORY

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
[redacted] Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
00008

ARLOC

Sampled Collected By
[redacted] Non-Responsive

Date Collected
2 MAY 00

Date Shipped
3 MAY 00

Description of Operation
LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
DREW ARMORY

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name | **Manufacturer**

Address | **MSDS Attached** ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	BOTTOM LEFT WALL		0005285-001A
	2	CENTER LEFT WALL		- 2
	3	TOP LEFT WALL		- 3
	4	Top Left Bullet Stop End		- 4
	5	Middle Bullet Stop End		- 5
	6	Bottom Right Bullet Stop End		- 6
	7	Top Right Wall		- 7

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed by (Initials) | Date Received | Date Reported

[redacted] Non-Responsive

5/15/200

8:15 am

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
Page 370 of 1454

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted]

Sampled Installation
FLOOR FIRING RANGE

Project Number
00008

ARLOC

Sampled Collected By
Non-Responsive [redacted] N
EHS

Date Collected
2 MAY 00

Date Shipped
3 MAY 00

Location (BLDG/AREA)
DREW ARMORY

LEAD SAMPLING OF FIRING RANGE

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Mfr	Manufacturer

Address

MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	8	Middle Right Wall		— 8
	9	Bottom Right Wall		— 9
	10	Bottom Rear Wall		— 10
	11	MIDDLE FLOOR		— 11
	12	Top Rear Wall		— 12
	13	Floor Right Bullet Stop		— 13
	14	REAR CENTER WALL		— 14

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed By (Initials) | Date Received | Date Reported

Comments: 8.45 U.S. Mail

Non-Responsive [redacted]

5/15/200

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BEST AVAILABLE COPY

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive HS

Sampled Installation: INDOOR FIRING RANGE

Project Number: 00008

ARLOC:

Sampler Inspected By: [redacted] Non-Responsive

Date Collected: 02 MAY 00

Date Shipped: 3 MAY 00

Description of Operation: LEAD SAMPLING OF FIRING RANGE.

Location (BLDG/AREA): DREW RANGE

Associated Complaints (be specific): NONE

Associated Air Samples: ☐ Yes ☒ No — If yes, list sample numbers

Label Information

Trade Name | Mfr | Manufacturer

Address | MSDS Attached ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks	
	15	Floor Left Rear Wall			15
	16	Ceiling Left Bullet Stop			16
	17	Ceiling Center			17
	18	Ceiling Right Rear Wall			18
	19	BLANK CONTROL SAMPLE			19
	20	REAR WALL OBSERVATION ROOM			20
	21	BLANK CONTROL SAMPLE			21

Comments to Lab:

Lab Use Only

Lab List Inspected | Reviewed by (Inspector) | Date Received | Date Reported

Comments: 5/15/2000

[redacted] Non-Responsive

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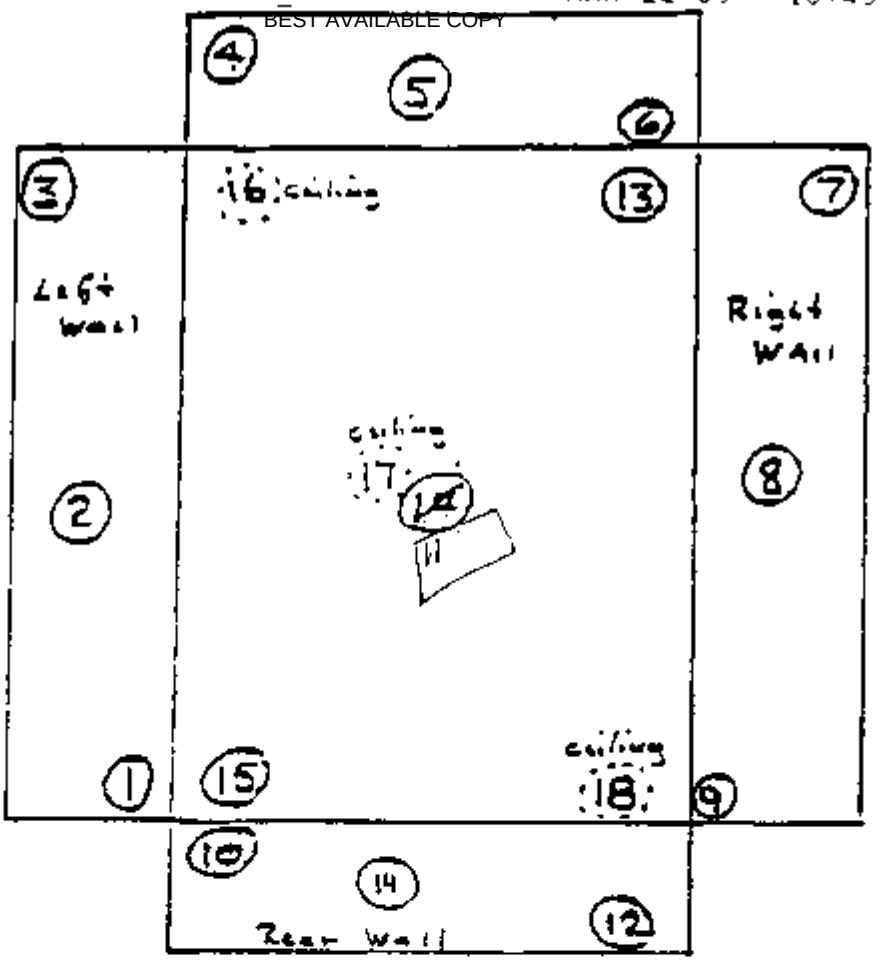
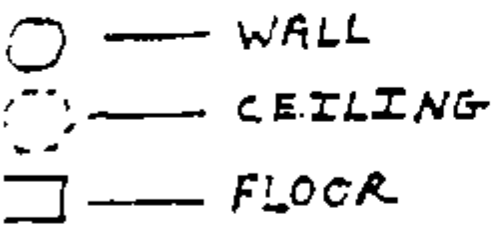


Contents of range sample

1. range sampling diagram
2. bulk sample data forms
3. sampling swabs
4. distilled water
5. bulk sample container
6. treatment gloves



1. Eighteen samples per rifle range will be taken.

   a. samples will be taken utilizing a 3"x 3" template.
   b. smear tabs will be moistened only with distilled water.
   c. samples are to be numbered and taken in correlation with the above diagram.
   d. each smear tab will be placed separately in a small, numbered plastic bag.

2. If property or equipment is being stored in the range take appropriate amount of samples not to exceed 15 each. Continue with the numbering system.

3. Bulk sample form, AEHA 78A 1 Oct [illegible] completed and placed [illegible]

Posted to NGB FOIA Reading Room
May, 2018
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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client Name GA ARMY NATL GUARD

Date and Time Receive 5/15/00 8:15:00 AM

Work Order Numbe 0005285

Received by Non-Responsive [redacted]

Checklist completed b Non-Responsive [redacted] /5-2000 Date

Reviewed by Non-Responsive [redacted] Initials 5/16/00 Date

Matrix

Carrier name Std US Mail

	Yes	No	Not Presen
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shippping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐
Water - pH acceptable upon receipt?	☑	☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

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Analytical Environmental Services, Inc.

Date: 5/19/00

TOTAL METALS IN WIPE SAMPLES
N7082

CLIENT: GA Army National Guard
Project: DREW ARMORY
Project No:
PO No:

Lab Order: 0005285
Date Received: 5/15/00 8:15:00
Matrix: Wipe
Analyst: [redacted] Non-Responsive

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0005285-001A	1	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-002A	2	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-003A	3	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-004A	4	123	µg, Total	20.0	1	5/2/00	5/18/00
0005285-005A	5	3,220	µg, Total	52.4	2.62	5/2/00	5/18/00
0005285-006A	6	57,000	µg, Total	2,000	100	5/2/00	5/18/00
0005285-007A	7	79.0	µg, Total	20.0	1	5/2/00	5/18/00
0005285-008A	8	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-009A	9	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-010A	10	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-011A	11	128	µg, Total	20.0	1	5/2/00	5/18/00
0005285-012A	12	62.0	µg, Total	20.0	1	5/2/00	5/18/00
0005285-013A	13	391	µg, Total	20.0	1	5/2/00	5/18/00
0005285-014A	14	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-015A	15	27.0	µg, Total	20.0	1	5/2/00	5/18/00
0005285-016A	16	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-017A	17	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-018A	18	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-019A	19	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-020A	20	BRL	µg, Total	20.0	1	5/2/00	5/18/00
0005285-021A	21	BRL	µg, Total	20.0	1	5/2/00	5/18/00

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive [redacted], MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Drew, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by Non-Responsive [redacted] are enclosed.

3. Findings.

a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Drew, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive

Non-Responsive

Regional Industrial Hygienist

ENCL.
as

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 10, 2002

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: Non-Responsive
FAX

RE: Drew, MS

Order No.: 0205122

Dear Non-Responsive

Analytical Environmental Servs, Inc. received 20 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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0205122

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK. GA 30349

Point of Contact (name/AUTOVON)
[redacted] IH SPECIALIST

Sampled Installation
INDOOR FIRING RANGE

Project Number
01

ARLOC

Samples Collected By
[redacted]

Date Collected
24 APRIL 2002

Date Shipped
30 APRIL 2002

Description of Operation
LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
BTRY A 1/14th FA
DREW, MS.

Associated Complaints (be specific)

Associated Air Samples
☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
001	1	BOTTOM LEFT WALL		
002	2	CENTER LEFT WALL		
003	3	TOP LEFT WALL		
004	4	Top Left Bullet Stop End		
005	5	Middle Bullet Stop End		
006	6	Bottom Right Bullet Stop End		
007	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (initials) | Reviewed by (initials) | Date Received | Date Reported

Procedures Performed | Comments:

[redacted]

5/4/02
12:30

9205122

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive

Sampled Installation: INDOOR FIRING RANGE

Project Number: 01

Samples Collected by: [redacted] Non-Responsive

Date Collected: 24 APRIL 2002

Date Shipped: 30 APRIL 2002

Location of Operation: LEAD SAMPLING OF FIRING RANGE

Location (REDS/AREA): DREW, MS.

Associated Complaints (be specific): NONE

Associated Air Samples: ☐ Yes ☒ No — If yes, list sample numbers

Label Information

Trade Name | Name | Manufacturer

Address | MSDS Attached ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
008	8	Middle Right Wall		
009	9	Bottom Right Wall		
010	10	Bottom Rear Wall		
011	11	MIDDLE FLOOR		
012	12	Top Rear Wall		
013	13	Floor Right Bullet Stop		
014	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Inst. (Initials) | Reviewed by (Initials) | Date Received | Date Reported

Procedures Performed | Comments:

A. GRN
5/4/02
12:30

0205122

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is BSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Location: [redacted] Non-Responsive

Sampled Installation: INDOOR FIRING RANGE

Project Number: 01

ARLOC:

Non-Responsive [redacted]

Date Collected: 24 APRIL 2002

Date Shipped: 30 APRIL 2002

Operation: LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA):

Associated Complaints (be specific): NONE

Associated Air Samples: ☐ Yes ☒ No

If yes, list sample numbers:

Label Information

Trade Name:

Manufacturer:

Address:

MSDS Attached: ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
015	15	Floor Left Rear Wall		
016	16	Ceiling Left Bullet Stop		
017	17	Ceiling Center		
018	18	Ceiling Right Rear Wall		
~~19~~				
019	20	Blank		
020	21	Blank		

Comments to Lab:

Lab Use Only

Lab Test Initiated: | Reviewed by (Initiated): | Date Received: | Date Reported:

Comments:

A. Gen
5/4/02
12:30

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client: NGB

Work Order Number: 0205122

Date and Time: 5/14/02 12:30

Received by: AG

Checklist completed by: Non-Responsive (Signature) 5/14/02 (Date)

Reviewed by: Non-Responsive 5/16/02 (Date)

Carrier name: US MAIL

Shipping container/cooler in good condition?	Yes ✓	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No	Not Present ✓
Custody seals intact on sample bottles?	Yes	No	Not Present ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container/Temp Blank temperature in compliance?	Yes ✓	No	

Cooler #1 Ambient Cooler #2 ____ Cooler #3 ____ Cooler #4 ____ Cooler#5 ____ Cooler #6 ____

Water - VOA vials have zero headspace? No VOA vials submitted ✓

Water - pH acceptable upon receipt? ~~Yes~~ ~~No~~ NA

Adjusted? ____ Checked by ____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted ____ Date contacted: ____ Person contacted ____

Contacted by: ____ Regarding ____

Comments:

no TAT. Per client history, proceed with a standard TAT.

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Drew, MS
Project No: Drew MS
PO No:

Lab Order: 0205122
Date Received: 5/4/02 12:30:00
Matrix: Wipe
Analyst: Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205122-001A	1	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-002A	2	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-003A	3	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-004A	4	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-005A	5	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-006A	6	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-007A	7	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-008A	8	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-009A	9	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-010A	10	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-011A	11	63.0	µg, Total	20.0	1	4/24/02	5/9/02
0205122-012A	12	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-013A	13	86.0	µg, Total	20.0	1	4/24/02	5/9/02
0205122-014A	14	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-015A	15	22.0	µg, Total	20.0	1	4/24/02	5/9/02
0205122-016A	16	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-017A	17	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-018A	18	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-019A	20	BRL	µg, Total	20.0	1	4/24/02	5/9/02
0205122-020A	21	BRL	µg, Total	20.0	1	4/24/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
Page 389 of 1454

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

16 May 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Supervisor Eupora Armory, 2135 West Roane Avenue, Eupora, MS 39744.

Thru: Non-Responsive DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Eupora Armory, Eupora, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

e. AR 385-10, The Army Safety Program, 23 August 2007.

f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Eupora Armory, Eupora, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

BEST AVAILABLE COPY

16 May 2011

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Eupora Armory, Eupora, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2011. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2012 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]

Non-Responsive [redacted]

CF:

Non-Responsive [redacted] afety Manager, 1410 Riverside Dr. Jackson, MS 39202..

[redacted] upational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL:

as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Eupora Armory
2135 West Roane Avenue
Eupora, MS 39744

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] CIH PE
Tammer Sciences, Inc.

May 10, 2011

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- Site Description
- Scope of Work
- Methodology

Findings & Discussion

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- Asbestos Suspect Building Material ..... Page 3
- Noise Survey ..... Page 3
- Illumination Survey ..... Page 4
- Heating Ventilating and Air Conditioning (HVAC) ..... Page 4
- Recommendations ..... Page 4

Appendices

A. Floor Layout and Illumination Measurements.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. Photographs.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Eupora Armory on 23 February 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, where necessary, conducting an illumination survey, a noise survey, where excessive noise sources are identified, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No excessive noise levels were identified.	No action.
Illumination Survey	Average readings ranged from 12 to 54 foot candles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room. Employees expressed concern about odors from the Latrines.	Consider replacing the wood with metal. Ensure that the exhaust fans are operational.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Eupora Armory in Eupora, Mississippi on 23 February 2011

BACKGROUND:

Introduction. At the request of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Eupora Armory in Eupora, Mississippi. Non-Responsive, Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 23 February 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1960, houses Detachment 1, Company G 106th Brigade Support Battalion. Two full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, a drill hall, a supply room, classroom, and storage area. This armory does not have an indoor firing range. Copies of the floor layout are included in Appendix A. Photos are included in Appendix E.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Where the presence of asbestos was suspect, bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was intended to be minimally destructive and samples were collected from inconspicuous areas. Each collected sample, if collected, was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Larson Davis Model Spark 706RC noise level meter was used to collect area noise readings. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted].

Lead Wipe Samples: Nine wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
EP01	Top of cabinet in admin office by TV.	<20
EP02	Top of wall heater in classroom.	<20
EP03	Top of fridge in kitchen.	<20
EP04	Drill hall floor south east by entrance	<20
EP05	Drill hall floor south west by supply.	<20
EP06	Drill hall floor middle of hall	<20
EP07	Drill hall floor north east.	<20
EP08	Drill hall floor north west.	<20
EP09	Field blank	<20

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: No suspect building material types were identified in the Armory as potentially containing asbestos.

Noise Survey Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were collected. Noise levels are likely to be well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

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Illumination Survey Lighting levels throughout the Armory ranged between 3 foot-candles to 146 foot-candles. Specific readings were as follows:

Area	Lighting Readings in Foot Candles		
	Min	Average	Max
Admin Office 1	32	43	57
Admin Office 2	16	38	58
Recruiter office	28	44	55
Classroom	11	26	47
Storage	11	54	146
Drill hall	13	43	122
Section cages	5	37	99
Supply room	10	39	136
Wool room	3	12	14
Vault	7	22	31

All office area readings were outside the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area. Storage area readings were within the 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of individual unit heaters and coolers for each room/area. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

None.

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Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive [redacted], Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive [redacted].

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APPENDIX A

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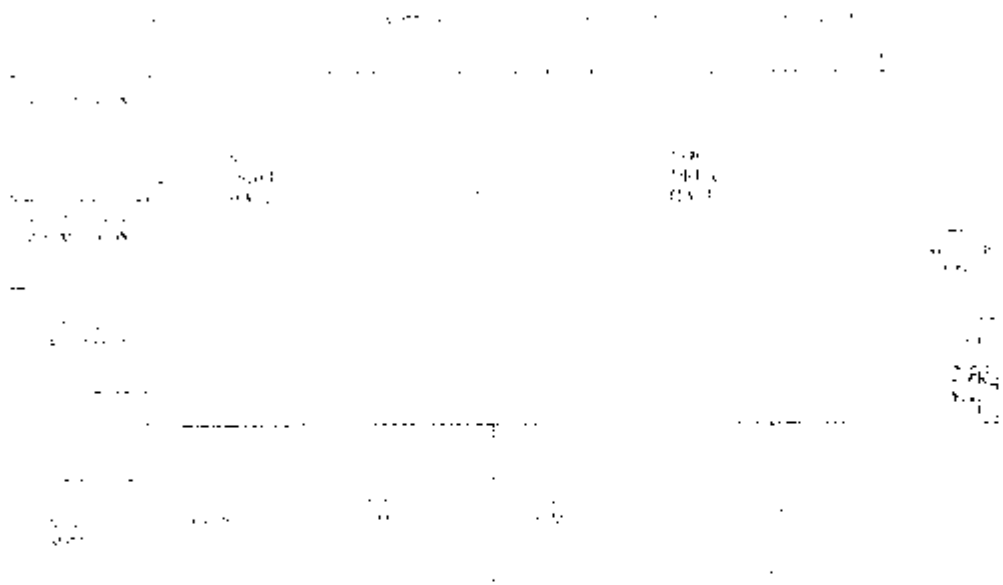
Fire Plan



INDICATES YOU ARE HERE:

Eighth Armory

IN CASE OF EMERGENCY THE FOLLOWING PERSONNEL
EXIT THROUGH THE FRONT DOOR READINESS NCO OFFICE [illegible] WOOD ROOM SUPPLY ROOM TRAIN [illegible] ROOM
SECTION CAGES RECRUITERS OFFICE [illegible] OF DRILL HALL [illegible]

THE FOLLOWING ROOMS WILL [illegible] THROUGH THE KITCHEN [illegible] STORAGE ROOM [illegible] OF DRILL HALL

THE FOLLOWING ROOMS WILL EXIT THROUGH THE CLASSROOM [illegible] CLASSROOM

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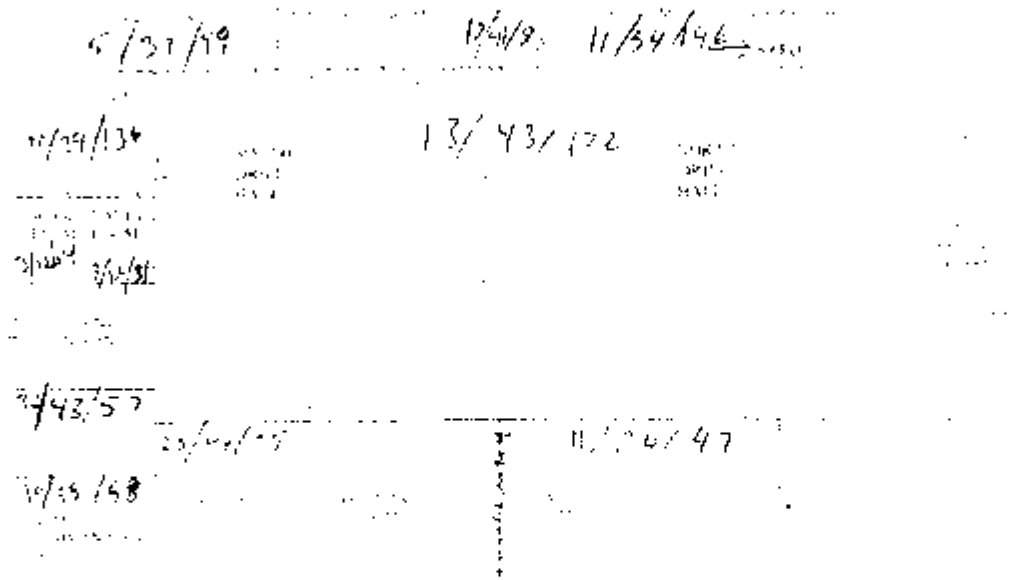
Fire Plan



INDICATES YOU ARE HERE:

IN CASE OF EMERGENCY THE FOLLOWING PERSONNEL
EXIT THROUGH THE FRONT DOOR: READINESS NCO OFFICE, A/C OFFICE, WOOD ROOM, SUPPLY ROOM, TRAINING ROOM, SECTION CAGES, RECRUITERS OFFICE, SOUTH HALF OF DRILL HALL, VAULT

THE FOLLOWING ROOMS WILL EXIT THROUGH THE KITCHEN DOOR: STORAGE ROOM, NORTH HALF OF DRILL HALL

THE FOLLOWING ROOMS WILL EXIT THROUGH THE CLASSROOM DOOR: CLASSROOM

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APPENDIX B

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 11, 2011
Non-Responsive
Tammer Sciences, Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: MSARNG Armories

Dear Non-Responsive

Order No: 1103436

Analytical Environmental Services, Inc. received 62 samples on 3/4/2011 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

Project Manager

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Analytical Environmental Services, Inc.

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: Lamner Sciences, Inc.
Project: NPS/RSG Armories
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Limits	Reporting Limit	DF	Date Collected	Date Analyzed	Analyst
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Qualifiers: [illegible]

Results are reported on a wet basis unless otherwise noted.

Page [illegible]

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Analytical Environmental Services, Inc.

Date: [illegible]

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: [illegible] Sciences, Inc.
Project: MNARNG Armories
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
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Qualifiers: [illegible]

[illegible]

[illegible]

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APPENDIX C

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: JF 3436

Date: 3/2/2011 Page 1 of 1

[redacted] Non-Responsive

ADDRESS: 2449 Lawrence Drive
Norcross, GA 30071

[redacted] Non-Responsive

ANALYSIS REQUESTED: Total Weight, Total Organics, Lead

PRESERVATION (Necessary)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	MATRIX	Composite/Grab	Matrix Description	Total Weight	Total Organics	Lead	REMARKS
1	MW	2/21	day			Mikkel Wright	✓	✓		
2	WFB - Bulk	2/21	PM							
3	PM01	2/22	day			Debris			✓	
4	CS01 → CS11	2/23/11	AM			Surface Soil			✓	
5	LV01 → LV10	2/21/11	PM						✓	
6	AK01 → AK09	2/22/11	AM						✓	
7	EP01 → EP09	2/22/11	AM						✓	
8	WP01 → WP10	2/21/11	AM						✓	
9	SV01 → SV10	2/22/11	PM						✓	
10										
11										
12										
13										
14										

RELINQUISHED BY: DATE/TIME: RECEIVED BY: DATE/TIME:

[redacted] Non-Responsive

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPPED VIA: BY: VIA: BY: VIA: CLIENT / FedEx / UPS / MAIL / Courier / OTHER

PROJECT INFORMATION

PROJECT NAME: MSALNG Annuals

[redacted] Non-Responsive

RECEIVED: Total # of Containers

Turnaround Time Required: Standard 5 Business Days; Priority (3 Bus. Days); Next Business Day Rush; Same Day Rush (with surcharge); other

STATE Program (if any): Email: Fax: DATA FORMAT: EDD

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC, SAMPLE WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A - Air; GW - Groundwater; SL - Sediment; SO - Soil; SW - Surface Water; W - Wastewater; DW - Drinking Water; O - Other (specify)

PRESERVATIVES: [illegible]

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form

Front Page

ARLOC: 4 7 0 0 0 0

Instaltion: Eugene Arthory

Building: M A I N

Room Number:

Location: M S

Operation:

Survey Date: 0 2 2 2 1

Month: 2 2 1

day: 1

Evaluator -HNUS: K H K

Macom: N G

Submacom: X X

RAC:

Unit / Organization (45): Detachment 1, Company G 106th Brigade Support B

[redacted]

DSN

Commercial

Frequency (hrs/day): 1

No. CIVs:

No. MIL: 0 2

Contractors: 0 0

No. LOCs:

Ventilation Units:

0 0 | 0 0 | 0 0 | 0 0

Controls Present (if>6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit Code:

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Manufacturer's Description (10 characters max)

NIOSH TC # or Foreign equivalent (10 characters m

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs		X	X
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safet(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

HHIMS Industrial Hygiene Survey Form

Back Page

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	CAS code	PAC	EPC	Hazard Description
PONOISECO	7 4 3 9 - 9 2 - 1			Lead Dust
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOIL				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters r	MI	Sex	Category

x Personnel data provided by the facility is attached to this form

Comments Remember to comment on problems, recommendations, and needed control items

Operation described is

Small arms clean ups in drill hall Surface wipe samples were collected fro various areas of the Armory

Refer to the report for the results

Comments continued on attached

This operation was explained to the evaluators, but was not actually observed

There is a noise data sheet attached to this form

This is a ventilation data sheet attached to this form

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APPENDIX E

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Photo #1: Front entrance to Eupora Armory.

Photo #2: Rear of the Armory.

Photo #3: Drill hall facing north.

Photo #4: Drill hall facing south.

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Photo #5: Classroom/training room.

Photo #6: Kitchen.

Photo #7: Northeast corner of the Armory.

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI April 24, 2000

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive, MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Gloster, MS Armory Indoor Firing Range wipe sample results.

1. References.

   a. 385-10, Army Safety Program

   b. National Guard Regulation, AR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft March 2000

   c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

   d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

   e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range at the Gloster, MS Armory by SSG Patricia A. Jones are enclosed.

3. Findings.

   a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require decontamination of the Gloster, MS Armory firing range.

   b. A single wipe blank sample was included in the sample bag. A wipe sample media not used during the sampling but handled in the field exactly the same way as the used media needs to be included for each ten samples taken to document the presence or absence of cross contamination of the sampling media.

4. Recommendations.

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a. To establish a baseline level, prior to decontamination, the sampling needs to be repeated including a blank for each ten samples taken.

b. The sampling results follow the expected pattern of contamination and since no cross contamination is suspected the results can be used to initiate corrective action.

c. To initiate corrective action use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be decontaminated.

ii. determining acceptance of ranges after housekeeping clean up and/or decontamination of a range.

b. Closely follow all recommendations in References 1.b and 1.c when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled housekeeping cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust (see reference 1.c).

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

5. If additional information is needed about industrial hygiene services or lead wipe sample results; please contact Mr. Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, 1- Non-Responsive

Non-Responsive

Regional Industrial Hygienist

ENCL.
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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 21, 2000

[redacted]
GA Army National Guard
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE Gloster, MS/ 00004 Order No.: 0004318

Dear [redacted]

Analytical Environmental Services, Inc. received 28 samples on 4/15/00 12:55:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

CC:

3781 PRESIDENTIAL PARKWAY, SUITE 111 • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code) NGB-AVN-SI 510 PLAZA DR SUITE 1530 COLLEGE PARK. GA 30349	Point of Contact (name/AUTOVON) Non-Responsive [redacted] SPECIALIST

Sampled Installation INDOOR FIRING RANGE	Project Number 00004	ARLOC
Sampler Collected By Non-Responsive [redacted]	Date Collected 6 APRIL 00	Date Shipped 7 APRIL 00
Description of Operation LEAD SAMPLING OF INDOOR FIRING RANGE		Location (BLDG/AREA) GLOSTER, MS.

Associated Complaints (be specific)
N/A

Associated Air Samples — If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Vendor	Manufacturer
Address		MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	BOTTOM LEFT WALL		
	2	CENTER LEFT WALL		
	3	TOP LEFT WALL		
	4	Top Left Bullet Stop End		
	5	Middle Bullet Stop End		
	6	Bottom Right Bullet Stop End		
	7	Top Right Wall		

0004318-0
00
003
004
005
006
007

Comments (to lab)
[redacted]

Lab Use Only

Analyst (initials) Reviewed by (initials) Non-Responsive [redacted]

Manufacturer Approved Authorized

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-CO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK. GA 30349

Non-Responsive

Sampled Installation: INDOOR FIRING RANGE

Project Number: 00004

ARLOC:

Non-Responsive

Date Collected: 6 APRIL 00

Date Shipped: 7 APRIL 00

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location: GLOSTER, MS

Associated Complaints (be specific): N/A

Associated Air Samples: If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name:

Manufacturer:

Grade:

MSDS Attached: ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks	
	8	Middle Right Wall			005
	9	Bottom Right Wall			009
	10	Bottom Rear Wall			010
	11	MIDDLE FLOOR			011
	12	Top Rear Wall			012
	13	Floor Right Bullet Stop			013
	14	REAR CENTER WALL			014

Comments to Lab:

Lab Use Only

Non-Responsive

Date Received: 4/15/00 12:55

USMAIL

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive

Sampled Installation: INDOOR FIRING RANGE

Project Number: 00004

ARLOC

Sampler Collected By: [redacted] Non-Responsive

Date Collected: 6 APRIL 00

Date Shipped: 7 APRIL 00

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA): GLOSTER, MS.

Associated Complaints (be specific): N/A

Associated Air Samples: ☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached: ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks	
	15	Floor Left Rear Wall			015
	16	Ceiling Left Bullet Stop			016
	17	Ceiling Center			017
	18	Ceiling Right Rear Wall			018
	19	TABLE LEFT WALL #4			019
	20	TABLE LEFT WALL #5			020
	21	TABLE RIGHT WALL #6			021

Comments to Lab: [redacted]

Lab Use Only

Reviewed by: [redacted] Non-Responsive

Reported: 4/15/00 12:55

USMAIL

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May, 2018

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted]

Sampled Installation
INDOOR FIRING RANGE

Project Number
00004

ARLOC

Samples Collected By
Non-Responsive [redacted]

Date Collected
6 APRIL 00

Date Shipped
7 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
GLOSTER, MS.

Associated Complaints (be specific)
N/A

Associated Air Samples (if yes, list sample numbers)
☐ Yes ☒ No

Label Information

Trade Name	Ion	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks	
	22	TABLE RIGHT WALL #8			022
	23	TABLE RIGHT WALL #7			023
	24	TABLE LEFT WALL #1			024
	25	TABLE LEFT WALL #2			025
	26	TABLE LEFT WALL #3			026
	28	Blank (Control Sample)			027
	27	REAR WALL OBSERVATION AREA			028

Comments to Lab:

Lab Use Only

Analyst (initials) Reviewed by (initials)

Procedures Performed Comments:

Non-Responsive [redacted]

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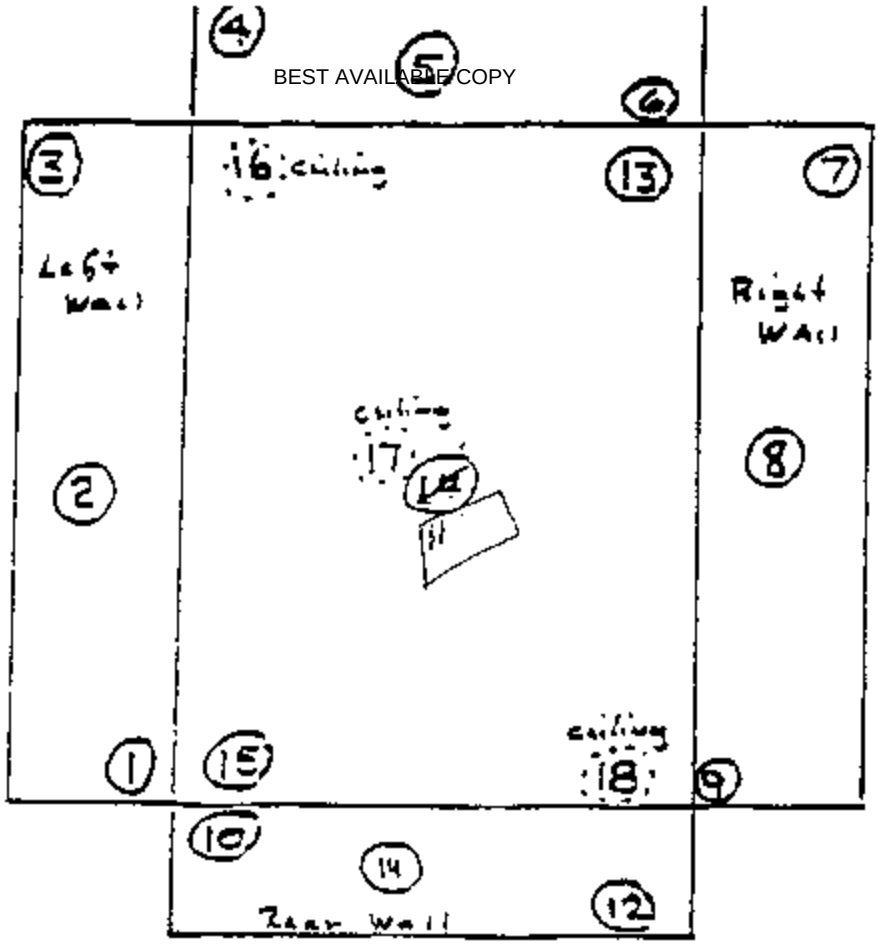

Contents of range sample

1. range sampling diagram
2. bulk sample data form
3. sampling swabs
4. distilled water
5. bulk sample container
6. treatment gloves

WALL

CEILING

FLOOR

1. Eighteen samples per rifle range will be taken.

   a. samples will be taken utilizing a 3"x 3" template.
   b. smear tabs will be moistened only with distilled water.
   c. samples are to be numbered and taken in correlation with the above diagram.
   d. each smear tab will be placed separately in a small, numbered plastic bag.

2. If property or equipment is being stored in the range take appropriate amount of samples not to exceed 15 each. Continue with the numbering system.

3. Bulk [illegible] form AEHA [illegible] completed and placed [illegible]

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Analytical Environmental Services, Inc.

Date: *21-Apr-00*

CLIENT: GA Army National Guard
Lab Order: 0004318
Project: Gloster, MS/ 00004

Sample ID	Units	Lead
1	µg, Total	91.0
10	µg, Total	252
11	µg, Total	2,360
12	µg, Total	112
13	µg, Total	33,800
14	µg, Total	391
15	µg, Total	914
16	µg, Total	< 20
17	µg, Total	< 20
18	µg, Total	< 20
19	µg, Total	34.0
2	µg, Total	68.0
20	µg, Total	27.0
21	µg, Total	653
22	µg, Total	1,270
23	µg, Total	169
24	µg, Total	79.0
25	µg, Total	993
26	µg, Total	27.0
27	µg, Total	< 20
28	µg, Total	20.0
3	µg, Total	113
4	µg, Total	617,000
5	µg, Total	8,690
6	µg, Total	558,000
7	µg, Total	162
8	µg, Total	115
9	µg, Total	71.0

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Analytical Environment

Sample Receipt Checklist

Client Name GA ARMY NATL GUARD

Date and Time Received 4/15/00 12:55:00 PM

Work Order Number 0004318

Received by Non-Responsive

Checklist completed by Non-Responsive 4-17-00 Date

Reviewed by Non-Responsive 4-17-00 Date

Matrix: Carrier name Std US Mail

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
ll samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑ N/A	

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section bel

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG

April 6, 2013

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Manager MS ARNG Gloster Armory, 329 N. Captain Gloster Drive, Gloster, Mississippi, 35340.

Thru: Ron Michael, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Gloster Armory, Gloster, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1998.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. USAEHA TG-141, January 2007, Guidelines for Air Sampling and Bulk sample Collection. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and follow up industrial hygiene sampling at the MS ARNG Gloster Armory, Gloster, Mississippi.

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March 29, 2013

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Gloster Armory, Gloster, Mississippi.

3. Findings: The information that follows is based on the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. .

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2013. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2014 IHIP.

b. Have all HHIM data entered into the HHIM computer module.

c. Use the report to help in correcting all deficiencies noted.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the State Occupational Health Office for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of AR ARNG. If additional information is needed please contact Non-Responsive Regional Industrial Hygienist, Non-Responsive Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:

Non-Responsive State Safety Manager, 1410 Riverside Dr, Jackson, MS 39202.

State Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Encl

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MISSISSIPPI ARMY NATIONAL GUARD
(MS ARNG)

GLOSTER ARMY NATIONAL GUARD ARMORY
329 N. CAPTAIN GLOSTER DRIVE
GLOSTER, MISSISSIPPI 35340

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MS ARNG)

At
Gloster Army National Guard Armory
329 N. Captain Gloster Drive
Gloster, Mississippi 35340

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

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- General Overview of the Armory.....Page
- Lead Wipe Samples.....Page
- Bulk Mold Collection Samples.....Page

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APPENDICES

A. REFERNECES
B. ILLUMINATION SURVEY
C. VENTILATION SURVEY
D. LEAD WIPE SAMPLE WORKSHEETS, DIAGRAMS, RESULTS
E. MOLD SAMPLE WORKSHEET AND RESULTS
F. PHOTOGRAPH INDEX AND PHOTOGRAPHS
G. NGB DESIGN GUIDE 415-2, TABLE 8, ELECTRICAL REQUIREMENTS
H. RHIM REPORT

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SUBJECT:
Industrial Hygiene Survey of the Mississippi Army National Guard Armory, located in Gloster, Mississippi.

BACKGROUND:

Introduction:
At the request of Non-Responsive of the Army National Guard Bureau Region South Industrial Hygiene Office, an Industrial Hygiene Survey was conducted for the Mississippi Army National Guard's Armory located at 329 N. Captain Gloster Drive, Gloster, Mississippi 35340. It was not known if an Industrial Hygiene Survey has ever been performed at the Armory.
The main Point of Contact (POC) for the Gloster Armory was Non-Responsive Non-Responsive, Armory Manager. He can be reached telephonically at Non-Responsive.

Site Description:
The Gloster Armory is located at 329 N. Captain Gloster Drive in Gloster, MS 35340. The Armory is positioned on approximately five (5) acres of land. The building is masonry with a metal roof. The approximate square footage of the building is 16,213 square feet. The Armory was built in 1985.
At the present time and for quite some time, the Armory has not been occupied on a regular basis. Personnel from the Brookhaven Armory go to the Armory for lawn maintenance, etc. Two full time employees have recently been hired to re-open the armory and ensure proper maintenance is being provided to the building. The roof did leak. A contractor was just hired a few weeks ago. Repairs have been made. When the next rain falls, it will determine the success of the roof repairs.
The Armory is in a state where attention needs to be paid to maintaining the armory in satisfactory condition. A lot of neglect has placed a toll on the building over the last several years. More will be discussed in the Overview of the Armory in this report.

Scope of Work:
The Industrial Hygiene Survey conducted at the Gloster, MS ARNG Armory consisted of an Illumination Survey, Ventilation Survey of the building, Lead wipe testing in the drill floor area, firing range, arms vault, and kitchen areas. Checks for mold/mildew, water leaks, and structural soundness of the building, was also completed.

An interview with the Gloster Armory manager (also the Brookhaven Armory Manager) was completed to determine if there were any safety, occupational health, or industrial hygiene concerns that should be addressed in this report.

Methodology:

An Illumination Survey was performed throughout the entire armory. Emphasis was placed on areas where employees would inhabit on a regular basis (if there were employees). Emphasis was also placed on areas depicted in NGB Design Guide 415-2, Table 8, Electrical Requirements. The Illumination Diagram (floor plan of the Armory) is located in Appendix B of this report.

A chart depicting the average illumination recordings within a certain area of the armory is located in the Illumination Survey portion of this report.

No personal noise dosimetry or sound level meter surveys were conducted. There are no employees in the armory and no noise hazardous equipment or machinery was identified.

Lead wipe samples were taken in the indoor firing range, arms vault, kitchen, and on the drill floor. Results, along with all pertinent information regarding the wipe protocol are located in Appendix D of this report.

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FINDINGS:

The main Point of Contact (POC) for the Gloster Armory was Non-Responsive. He can be reached telephonically at Non-Responsive Non-Responsive.

ILLUMINATION SURVEY:

An Illumination Survey was conducted throughout the Gloster Armory. Emphasis was placed on areas that would normally be inhabited if there were employees working in the Armory. Emphasis was also placed on areas depicted in NGB Design Guide 415-2, Table 8, Electrical Requirements (copy of Table 8 is located in Appendix G of this report).

All measurements were recorded in foot-candles, within proper range, on work surfaces and approximately four (4') feet from the floor. The Light Meter was set for the type illumination present. The survey was completed on a cloudy overcast day (5 FEB 13).

An Extech Heavy Duty Light Meter, Serial #L631426, with a Calibration Date of 12 June 2012, was utilized for illumination recordings/readings.

FINDINGS:

The chart below depicts the average readings/recordings in a particular area. For an area where more than one recording was made, refer to the illumination diagram in Appendix B of this report.

LOCATION	FOOT-CANDLES RECORDED	STANDARD PER NGB DG 415-2	STD. MET?
S/L OFC	86	50	YES
TR	82	40	YES
CLASSROOM	60	50	YES
COMM. OFFICE	13	50	NO
AST OFFICE	45	50	NO
RECRUITER'S OFFICE	21	50	NO
FEMALE LATRINE	12	40	NO
MALE LATRINE	16	40	NO
LOCKER ROOM	2	40	NO
FIRING RANGE	10	50	NO
DRILL FLOOR	18	50	NO
KITCHEN	12	50	NO
STORAGE ROOM	2	40	NO
VAULT	23	40	NO
SUPPLY OFFICE	52	50	YES
SUPPLY ROOM	16	40	NO

THERE ARE SEVERAL LIGHT OUT THROUGHOUT THE ARMORY.
SEVERAL LIGHT ARE OF INSUFFICIENT ILLUMINATION TO MEET NGB DG 415-2 STANDARDS.

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May, 2018

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VENTILATION SURVEY:

FINDINGS:

A Ventilation Survey was conducted at the Gloster Armory. Particular attention was paid to indoor air quality throughout the Armory. The main concern was related to temperature, relative humidity/dew point, and carbon dioxide (as a determinant for the presence of possible carbon monoxide).

The chart located in Appendix C of this report depicts the readings/recordings taken in several locations of the Armory.

There appears to be no major concern for promoting mold/mildew growth in regard to the temperature, relative humidity, and dew point analysis.

There is no reason, at the present time, to be concerned about a carbon monoxide presence since the CO2 recordings were well below 1000 ppm.

Measurements were taken with a SUPCO IAQ55 Indoor Air Quality Meter, Serial #9923463, and a Calibration Date of 05 JAN 2013.

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GENERAL OVERVIEW OF THE GLOSTER ARMORY:

FINDINGS:

The Gloster Armory was constructed in 1985. There have been no fulltime units occupying the Armory since 1998. Personnel from the Brookhaven Armory visit the Armory on occasion to mow, trim, and do a quick "run through" of the exterior to check for any major problems.

Due to no occupancy of the Armory for quite some time, the Armory has suffered due to lack of regular maintenance and upkeep.

Plans are in the works to hire one or two employees to work at the Gloster Armory on a relatively full time basis. These employees will provide the necessary maintenance to keep the building from further damage.

It appears the firing range has been cleaned and the walls painted. Lead was found on three wipes in the range. They will be discusses later in the narrative of this report. Mold samples were taken from two ceiling tiles. The results proved positive for mold. The mold samples will also be discussed in the narrative of this report.

There were several water leaks detected throughout the building (see photographs). From what was stated by the armory manager, a roofing contractor has repaired the leaks. The next rain fall will determine if the leaks have been properly repaired.

With a little tender loving care and a few dollars, the Gloster Armory could be placed back into service for the Mississippi Army National Guard.

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LEAD WIPE SAMPLES:

FINDINGS:

Lead wipe samples were taken on the Drill Floor, in the Arms Vault, Firing Range, and in the Kitchen.
A 12" X 12" template was utilized for the wipe area and the medium used was Ghost Wipes.

ARMORY DRILL FLOOR:

Twelve individual wipes were taken throughout the drill floor area (see diagram for locations). There were no wipes that breached the 20 ug/sq.ft. reporting limit.

INDOOR FIRING RANGE:

Seventeen individual wipe tests were taken in the Indoor Firing Range (see diagram for locations). Wipe sample numbers 13G,14G, 16G, and 17G all tested positive for lead and over the reporting limit of 20 ug/sq.ft. Sample # 14G tested over the 200 ug/sq.ft. action level at 960 ug/sq.ft. This sample was taken on the floor of the range and in the middle of the floor. A drain is located directly to the left of the wipe area. It is possible that when cleaning the range, the lead residue entering the drain was not sufficiently cleaned. The other three samples that tested positive ranged from a low of 44 ug/sq.ft. to a high of 57 ug/sq.ft.

SMALL ARMS VAULT:

There were a total of nine samples taken in the Arms Vault. Since there were no units drilling at the Armory, there were no weapons in the Vault. There were two samples that tested above the reporting limit (35G and 36G). Sample 35G indicated 25 ug/sq.ft. and sample 36G indicated 48 ug/sq.ft. Both samples were well below the action level of 200 ug/sq.ft. Sample 35G was taken on a shelf on the right hand side of the vault and sample 36G was taken on the top of the safe in the lower left hand side of the vault (see diagrams).

KITCHEN WIPE TESTING:

Two wipe tests were taken in the kitchen area 39G and 40G. Both samples indicated lead presence but below the action level of 200 ug/sq.ft. (39G @ 63 ug/sq.ft. and 40G @ 58 ug/sq.ft.). Both of the samples were taken on the tops of kitchen cabinets (see photograph section for wipe areas).

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BULK MOLD COLLECTION SAMPLES:

FINDINGS:

Two bulk ceiling tile samples were sent to the lab for mold sampling. The ceiling tiles were removed from the classroom, learning center, and library areas. All of the ceiling tiles were directly below the HVAC heating and cooling duct. There were no other areas that appeared to have a mold infestation. The cause of the mold accumulation was from individuals turning the HVAC system on and setting the thermostat for the lowest possible setting and then vacating the building for more than two weeks. When someone returned to the Armory, it was discovered that the floors and the ceiling tiles under the ductwork were soaked with water. Nothing was done regarding the ceiling tiles. The floors were wiped and cleaned but the ceiling tiles remained intact. The HVAC system was turned off and the temperature, dew-point, and relative humidity assumed the outside ambient air conditions. This, most probably, caused the formation of the mold.

The ceiling tiles have been replaced with new tiles but the Armory is still unmonitored. Without constant monitoring of the inside building environment, this situation could occur again.

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EXECUTIVE SUMMARY

ITEM: ILLUMINATION SURVEY
FINDINGS:
There were only four (4) areas within the Armory that met or exceeded the NGB Design Guide 415-2, Table 8, Electrical Requirements, standards (S/L Office, TR, Classroom, and Supply Office). Illumination deficiencies are due, in a large part, to several bulbs burned out and not replaced during the course of no occupancy. (RAC 3)

ITEM: VENTILATION SURVEY
FINDINGS:
The Ventilation Survey results indicated there is no real concern, according to the readings/recordings, to worry about mold or mildew accumulation. However, without constant monitoring of the Armory's interior environment, this could change relatively quickly. (RAC 3)

ITEM: LEAD WIPE SAMPLES
FINDINGS:
Lead Wipe Samples were taken on the Drill Floor, Indoor Firing Range, Arms Vault, and in the Kitchen.
The Drill Floor wipes indicated no lead within the reporting limits.
The Indoor Firing Range did have lead levels, on the floor, which were over the reporting limit. One wipe test, by the floor drain in the middle of the floor, breached the action level of 200 ug/sq.ft.
The Arms Vault had two wipes that were over the reporting limit (on shelf and on top of the safe) but not near approaching the action level.
The kitchen had both wipes (on cabinet tops) that were above the reporting limit but not close to the 200 ug/sq.ft. action level. (RAC 3)

ITEM: MOLD COLLECTION SAMPLES
FINDINGS:
Two bulk mold samples were sent to the lab for analysis. Both samples tested positive for mold. Both samples were discarded ceiling tiles from the classroom or library areas. Cause of the mold was inappropriate setting of the HVAC system and then vacating the building for over two weeks.
The IAQ reading/recordings during the IH Survey did not indicate and environment conducive for mold/mildew formation (at this point in time). (RAC 3)

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RECOMMENDATIONS

ITEM: ILLUMINATION SURVEY
RECOMMENDATIONS:
Replace the burned out lights throughout the Armory. Determine if further work on the illumination within the armory is necessary (i.e. work order to higher headquarters for light repairs). Utilize supplemental illumination in the meantime if personnel are going to be assigned to the Armory. (RAC 3).

ITEM: VENTILATION SURVEY
RECOMMENDATIONS:
Ensure someone is constantly monitoring the Gloster Armory. Constantly check on the IAQ within the building. Adjust the HVAC system according to conditions and environmental factors. RAC 3)

ITEM: LEAD WIPE SAMPLES
RECOMMENDATIONS:
The only area that indicated lead levels higher than the action level was within the indoor firing range. Recommend re-cleaning the firing range floor in accordance with guidelines from the MS ARNG Environmental Office. Other areas that breached the reporting level but not the action level could be simply wiped down and cleaned. (RAC 3)

ITEM: MOLD COLLECTION SAMPLES
RECOMMENDATIONS:
Monitor the indoor air quality of the armory on a regular basis. After the next major rainfall, ensure that all roof/building leaks have been properly repaired. Adjust the HVAC system to proper settings when the building is inhabited and when vacant. (RAC 3)

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APPENDICES

A. REFERNECES
B. ILLUMINATION SURVEY
C. VENTILATION SURVEY
D. LEAD WIPE SAMPLE WORKSHEETS, DIAGRAMS, RESULTS
E. MOLD SAMPLE WORKSHEET AND RESULTS
F. PHOTOGRAPH INDEX AND PHOTOGRAPHS
G. NGB DESIGN GUIDE 415-2, TABLE 8, ELECTRICAL REQUIREMENTS

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APPENDIX A

REFERENCES

a. Army Regulation 11-34, The Army Respiratory Protection Program, 15 February 1990.

b. Army Regulation 40-5, Medical Service, Preventative Medicine, 22 July 2005.

c. Army Regulation 385-10, Army Safety Program, 29 February 2000.

d. Department of the Army Pamphlet 40-501, Hearing Conservation, 10 December 1998.

e. National Guard Regulation 385-10, Army National Guard Safety Program, 12 September 2008.

f. Department of Defense Instruction 6055.1 Department Defense Occupational Safety and Health (OSH) Program, 26 October 1986, with update dated 19 August 1998.

g. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

h. TB MED 503, The Army Industrial Hygiene Program, 1 February 1985.

i. Technical Guide 040, Noise Hazard Evaluation/Sound Level Data of Noise Sources.

j. USAHA TG-141, Guidelines for Air Sampling and Bulk Sample Collection, 25 MAY 2010.

k. Army National DG 415-2, Logistics Facilities Design Guide, Table 8, Electrical requirements, pgs. 53-55 Dated 01 June 2011.

l. Army National Guard DG 415-3, Aviation Facilities Design Guide, Table 8, Electrical Requirements, pgs. 39-41, Dated 01 June 2011.

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m. Life Safety Code Handbook, Eighth Edition, National Fire Protection Association, Quincy, Massachusetts, July 2012.

n. National Electric Code Handbook, 2008 Edition, National Fire Protection Association, Quincy, Massachusetts.

o. IES Lighting Handbook, Application Volume, Illumination Engineering Society of North America, 2011.

p. Industrial Ventilation, 26th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

q. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2011, American Conference of Industrial Hygienists, Cincinnati, Ohio.

r. Title 29, Code of Federal Regulations, Part 1910, Occupational Safety and Health Standards, rev. 2009.

s. NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, September 2008.

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APPENDIX B

ILLUMINATION SURVEY

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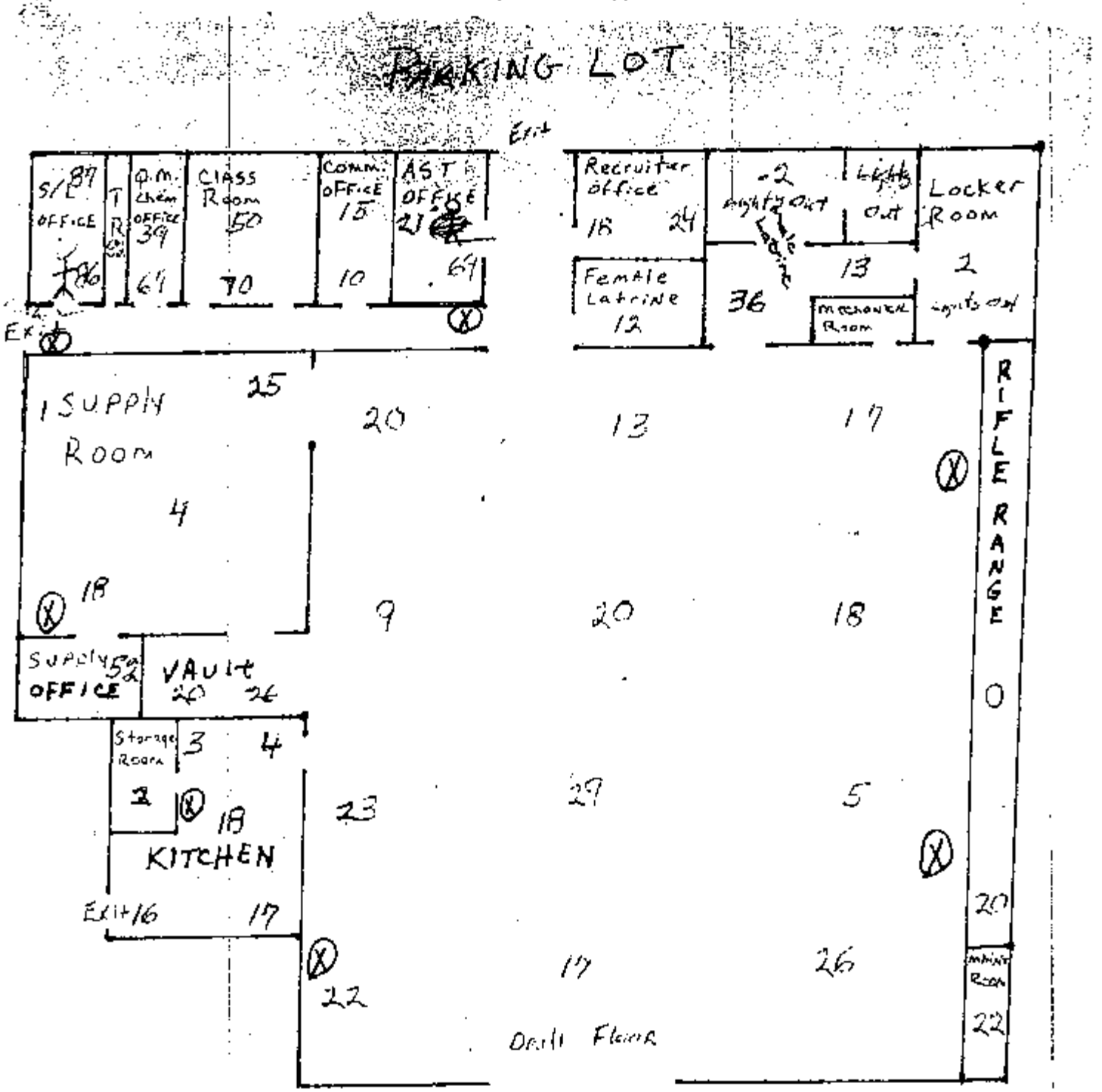

N

GLOSTER ARMORY
ILLUMINATION SURVEY
6 FEBRUARY 2013
CLOUDY OVERCAST DAY
ALL MEASUREMENTS IN FOOT-CANDLES

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APPENDIX C
VENTILATION SURVEY

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VENTILATION CHART

THE CHART DEPICTED BELOW SHOWS WHERE TEMPERATURE, RELATIVE HUMIDITY, AND CO2 (IN PPM) WERE RECORDED THROUGHOUT THE GLOSTER ARMORY.

THE OUTSIDE AMBIENT READINGS/RECORDINGS WERE:
CO2 (ppm) = 408ppm
TEMPERATURE = 78 deg F
RELATIVE HUMIDITY = 78%

BUILDING RECORDINGS

LOCATION	CO2 (ppm)	TEMP (F)	HUMIDITY (%)
S/L OFFICE	480	67	63
CLASSROOM	463	67	61
AST OFFICE	704	67	64
RANGE	443	66	58
DRILL FLOOR	444	66	63
KITCHEN	512	67	63
SUPPLY	484	66	60

READINGS OF LESS THAN 1000ppm OF CO2 IS RECOMMENDED.

TEMPERATURE READINGS OF 62 - 76 DEGREES F ARE RECOMMENDED

RELATIVE HUMIDITY LESS THAN 65-70% ARE RECOMMENDED.

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APPENDIX D
LEAD WIPE SAMPLE WORKSHEETS, DIAGRAMS, RESULTS

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 20, 2013

Non-Responsive

PO BOX 3083
Placida FL 33946

TEL: Non-Responsive
FAX:

RE: MS ARNG, Gloster Armory

Dear Non-Responsive

Order No: 1302887

Analytical Environmental Services, Inc. received 41 samples on 2/11/2013 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770)457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

1058

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

1302887

Client Name: HINCHCO
Address: 18 Boat Court
Placida, FL 33946

Contact: [redacted]
Phone:
Email:
Fax:

Project Name/#: MS ARNG Gloster Armory
Samplers Name: [redacted]
Sampling Date: 06 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
[redacted]00G	BLANK								Lead
01G	Drill Floor								
02G	Drill Floor								
03G	Drill Floor								
04G	Drill Floor								
05G	Drill Floor								
06G	Drill Floor								
07G	Drill Floor								
08G	Drill Floor								
09G	Drill Floor								
10G	Drill Floor								
11G	Drill Floor								
12G	Drill Floor								
13G	Firing Range								
14G	Firing Range								
15G	Firing Range								
16G	Firing Range								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB - 1st Region South, College Park, GA - BRA [redacted]

Relinquished By:	[redacted]	Date/Time	7 Feb 13/1240
Received By:	[redacted]	Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient: [redacted]
Date: 2/07/13 1000

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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May, 2018

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

1302887

Client Name: HINCHCO
Address: 18 Boat Ct
Placida, FL 33946
Contact: [redacted]
Phone:
Fax:

Project Name/#: MS ARNG Gloster Armory
Samplers Name: [redacted]
Sampling Date: 5 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
17G	Firing Range								LEAD
18G	Firing Range								
19G	Firing Range								
20G	Firing Range								
21G	Firing Range								
22G	Firing Range								
23G	Firing Range								
24G	Firing Range								
25G	Firing Range								
26G	Firing Range								
27G	Firing Range								
28G	Firing Range								
29G	Firing Range								
30G	Arms Vault								
31G	Arms Vault								
32G	Arms Vault								
33G	Arms Vault								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB IH Region South, College Park, GA, BPA agreement

Relinquished By:	[redacted]		
Received By:			
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient: PL
Date: 2/11/13 10:20

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 Presidential Pkwy., Atlanta, GA 30340-3704
TEL: (770) 457-8177 / TOLL FREE: (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1302887

Date: 5 Page 3 of 3

COMPANY: HINCHCO
MS ARNG Gloster Armory

ADDRESS: [redacted]

PHONE: [redacted]

SAMPLE

ANALYSIS REQUESTED

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	PRESERVATION	REMARKS	No # of Containers
	34G Arms Vault	5 Feb 13						Test For	
	35G Arms Vault	5 Feb 13						LEAD	
	36G Arms Vault	5 Feb 13							
	37G Arms Vault	5 Feb 13							
	38G Arms Vault	5 Feb 13							
	39G Kitchen Top Cabinet	5 Feb 13							
	40G Kitchen Top Cabinet	5 Feb 13							

RELINQUISHED BY: [redacted]

DATE/TIME: 2/11/13 10:00

RECEIVED BY:

DATE/TIME:

PROJECT INFORMATION
PROJECT NAME: MS ARNG GLOSTER ARMORY
PROJECT #:
FAC ID#:
SITE ADDRESS:
PROJECT MANAGER:
INVOICE TO: (IF DIFFERENT FROM ABOVE)

RECEIPT
Total # of Containers

Turnaround Time Request
- Standard 3-5 Business Days
- Same Day Rush (auth req.)
- Next Business Day Rush
- 2 Business Day Rush
- Other

PROGRAM (see codes):

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
Bill to NGB Industrial Hygiene Region IV South, College Park, GA

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PO#:

QUOTE/CONTRACT #:

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify) NA = None

PROGRAM: FLIST FLDC ALIST TNIST MSLIST NCIST SCIST OALIST CADONIX FLOOD

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1302887

WIPE SAMPLE SPREADSHEET FOR MS ARNG, GLOSTER, MS GLOSTER ARMORY

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
05 FEB 13	00G	BLANK	LEAD
05 FEB 13	01G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	02G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	03G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	04G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	05G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	06G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	07G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	08G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	09G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	10G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	11G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	12G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	13G	FIRING RANGE	LEAD
05 FEB 13	14G	FIRING RANGE	LEAD
05 FEB 13	15G	FIRING RANGE	LEAD
05 FEB 13	16G	FIRING RANGE	LEAD
05 FEB 13	17G	FIRNIG RANGE	LEAD
05 FEB 13	18G	FIRING RANGE	LEAD
05 FEB 13	19G	FIRING RANGE	LEAD
05 FEB 13	20G	FIRING RANGE	LEAD
05 FEB 13	21G	FIRING RANGE	LEAD
05 FEB 13	22G	FIRING RANGE	LEAD

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1302887

05 FEB 13	23G	FIRING RANGE	LEAD
05 FEB 13	24G	FIRING RANGE	LEAD
05 FEB 13	25G	FIRING RANGE	LEAD
05 FEB 13	26G	FIRING RANGE	LEAD
05 FEB 13	27G	FIRING RANGE	LEAD
05 FEB 13	28G	FIRING RANGE	LEAD
05 FEB 13	29G	FIRING RANGE	LEAD
05 FEB 13	30G	ARMS VAULT	LEAD
05 FEB 13	31G	ARMS VAULT	LEAD
05 FEB 13	32G	ARMS VAULT	LEAD
05 FEB 13	33G	ARMS VAULT	LEAD
05 FEB 13	34G	ARMS VAULT	LEAD
05 FEB 13	35G	ARMS VAULT	LEAD
05 FEB 13	36G	ARMS VAULT	LEAD
05 FEB 13	37G	ARMS VAULT	LEAD
05 FEB 13	38G	ARMS VAULT	LEAD
05 FEB 13	39G	KITCHEN, TOP CABINET	LEAD
05 FEB 13	40G	KITCHEN, TOP CABINET	LEAD

ALL WIPE SAMPLES WERE TAKEN WITH A 12" X 12" (1 SQ.FT.) TEMPLATE.

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM.

FIRING RANGE WALL PAINTED RECENTLY, UNKNOWN IF LEAD ABATEMENT WAS COMPLETED.

SEE ATTACHED DIAGRAMS FOR WIPE SAMPLE COLLECTION AREAS

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Analytical Environmental Services, Inc.

Date: 2/20/2013

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: HINCHCO
Project: MS ARNG, Gloster Armory
Delivery Order:
PO No:

Lab Order: 1302887
Date Received: 2/11/2013 10:20 AM
Matrix: Bulk

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
1302887-001A	00G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-002A	01G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-003A	02G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-004A	03G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-005A	04G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-006A	05G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-007A	06G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-008A	07G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-009A	08G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-010A	09G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-011A	10G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-012A	11G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-013A	12G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-014A	13G	44	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-015A	14G	960	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-016A	15G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-017A	16G	47	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-018A	17G	57	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-019A	18G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-020A	19G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-021A	20G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-022A	21G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-023A	22G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-024A	23G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-025A	24G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-026A	25G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-027A	26G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-028A	27G	BRL	µg/ft²	20	1	2/5/2013	2/14/2013	TAA
1302887-029A	28G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-030A	29G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-031A	30G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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May, 2018
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Analytical Environmental Services, Inc.

Date: 2/20/2013

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: HINCHCO
Project: MS ARNG, Gloster Armory
Delivery Order:
PO No:

Lab Order: 1302887
Date Received: 2/11/2013 10:20 AM
Matrix: Bulk

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
1302887-032A	31G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-033A	32G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-034A	33G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-035A	34G	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-036A	35G	25	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-037A	G36	48	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-038A	G37	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-039A	G38	BRL	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-040A	G39	63	µg/ft²	20	1	2/5/2013	2/15/2013	TAA
1302887-041A	G40	58	µg/ft²	20	1	2/5/2013	2/15/2013	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Hinchco Work Order Number 1302887

Checklist completed by Non-Responsive 2/12/13
Signature Date

Carrier name: FedEx __ UPS ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc

Date: 20-Feb-13

Client: HINCHCO
Project Name: MS ARNG, Gloster Armory
Workorder: 1302887

ANALYTICAL QC SUMMARY REPORT

BatchID: 172451

Sample ID: MB-172451 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238457
SampleType: MBLK | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172451 | Analysis Date: 02/14/2013 | Seq No: 4992515

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-172451 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238457
SampleType: LCS | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172451 | Analysis Date: 02/14/2013 | Seq No: 4992516

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	755.3	20	875	0	86.3	80	120	0	0	0	

Sample ID: LCSD-172451 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238457
SampleType: LCSD | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172451 | Analysis Date: 02/14/2013 | Seq No: 4992517

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	779.3	20	875	0	89.1	80	120	755.3	3.12	25	

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Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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Client: HINCHCO
Project Name: MS ARNG, Gloster Armory
Workorder: 1302887

ANALYTICAL QC SUMMARY REPORT

BatchID: 172458

Sample ID: **MB-172458** Client ID: Units: **ug, Total** Prep Date: **02/14/2013** Run No: **238460**
Sample Type: **MBLK** TestCode: **LEAD ON WIPES (N9102/N7082)** BatchID: **172458** Analysis Date: **02/14/2013** Seq No: **4992601**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: **LCS-172458** Client ID: Units: **ug, Total** Prep Date: **02/14/2013** Run No: **238460**
Sample Type: **LCS** TestCode: **LEAD ON WIPES (N9102/N7082)** BatchID: **172458** Analysis Date: **02/14/2013** Seq No: **4992606**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	797.2	20	875	0	91.1	80	120	0	0	0	

Sample ID: **LCSD-172458** Client ID: Units: **ug, Total** Prep Date: **02/14/2013** Run No: **238460**
Sample Type: **LCSD** TestCode: **LEAD ON WIPES (N9102/N7082)** BatchID: **172458** Analysis Date: **02/14/2013** Seq No: **4992607**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	835.0	20	875	0	95.4	80	120	797.2	4.63	25	

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Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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Analytical Environmental Services, Inc Date: 20-Feb-13

Client: HINCHCO
Project Name: MS ARNG, Gloster Armory
Workorder: 1302887

ANALYTICAL QC SUMMARY REPORT

BatchID: 172469

Sample ID: MB-172469 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238509
SampleType: MBLK | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172469 | Analysis Date: 02/15/2013 | Seq No. 4993798

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-172469 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238509
SampleType: LCS | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172469 | Analysis Date: 02/15/2013 | Seq No: 4993799

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	755.5	20	875	0	86.3	80	120	0	0	0	

Sample ID: LCSD-172469 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238509
SampleType: LCSD | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172469 | Analysis Date: 02/15/2013 | Seq No. 4993800

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	835.6	20	875	0	95.5	80	120	755.5	10.1	25	

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Qualifiers:

- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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WIPE SAMPLE SPREADSHEET FOR
MS ARNG, GLOSTER, MS
GLOSTER ARMORY

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
05 FEB 13	00G	BLANK	LEAD
05 FEB 13	01G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	02G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	03G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	04G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	05G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	06G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	07G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	08G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	09G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	10G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	11G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	12G	ARMORY DRILL FLOOR	LEAD
05 FEB 13	13G	FIRING RANGE	LEAD
05 FEB 13	14G	FIRING RANGE	LEAD
05 FEB 13	15G	FIRING RANGE	LEAD
05 FEB 13	16G	FIRING RANGE	LEAD
05 FEB 13	17G	FIRNIG RANGE	LEAD
05 FEB 13	18G	FIRING RANGE	LEAD
05 FEB 13	19G	FIRING RANGE	LEAD
05 FEB 13	20G	FIRING RANGE	LEAD
05 FEB 13	21G	FIRING RANGE	LEAD
05 FEB 13	22G	FIRING RANGE	LEAD

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05 FEB 13	23G	FIRING RANGE	LEAD
05 FEB 13	24G	FIRING RANGE	LEAD
05 FEB 13	25G	FIRING RANGE	LEAD
05 FEB 13	26G	FIRING RANGE	LEAD
05 FEB 13	27G	FIRING RANGE	LEAD
05 FEB 13	28G	FIRING RANGE	LEAD
05 FEB 13	29G	FIRING RANGE	LEAD
05 FEB 13	30G	ARMS VAULT	LEAD
05 FEB 13	31G	ARMS VAULT	LEAD
05 FEB 13	32G	ARMS VAULT	LEAD
05 FEB 13	33G	ARMS VAULT	LEAD
05 FEB 13	34G	ARMS VAULT	LEAD
05 FEB 13	35G	ARMS VAULT	LEAD
05 FEB 13	36G	ARMS VAULT	LEAD
05 FEB 13	37G	ARMS VAULT	LEAD
05 FEB 13	38G	ARMS VAULT	LEAD
05 FEB 13	39G	KITCHEN, TOP CABINET	LEAD
05 FEB 13	40G	KITCHEN, TOP CABINET	LEAD

ALL WIPE SAMPLES WERE TAKEN WITH A 12″ X 12″ (1 SQ.FT.) TEMPLATE.

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM.

FIRING RANGE WALL PAINTED RECENTLY, UNKNOWN IF LEAD ABATEMENT WAS COMPLETED.

SEE ATTACHED DIAGRAMS FOR WIPE SAMPLE COLLECTION AREAS

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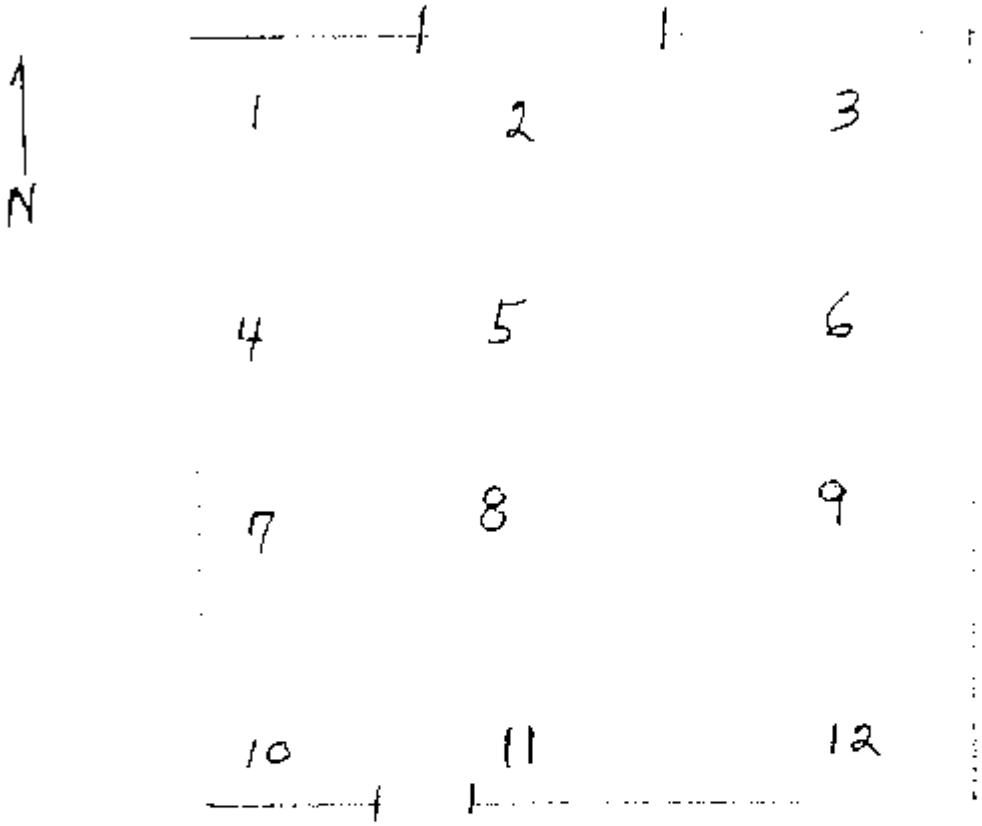
GLOSTER ARMORY
DRILL FLOOR
6 FEBRUARY 2013
LEAD WIPE SAMPLE LOCATIONS



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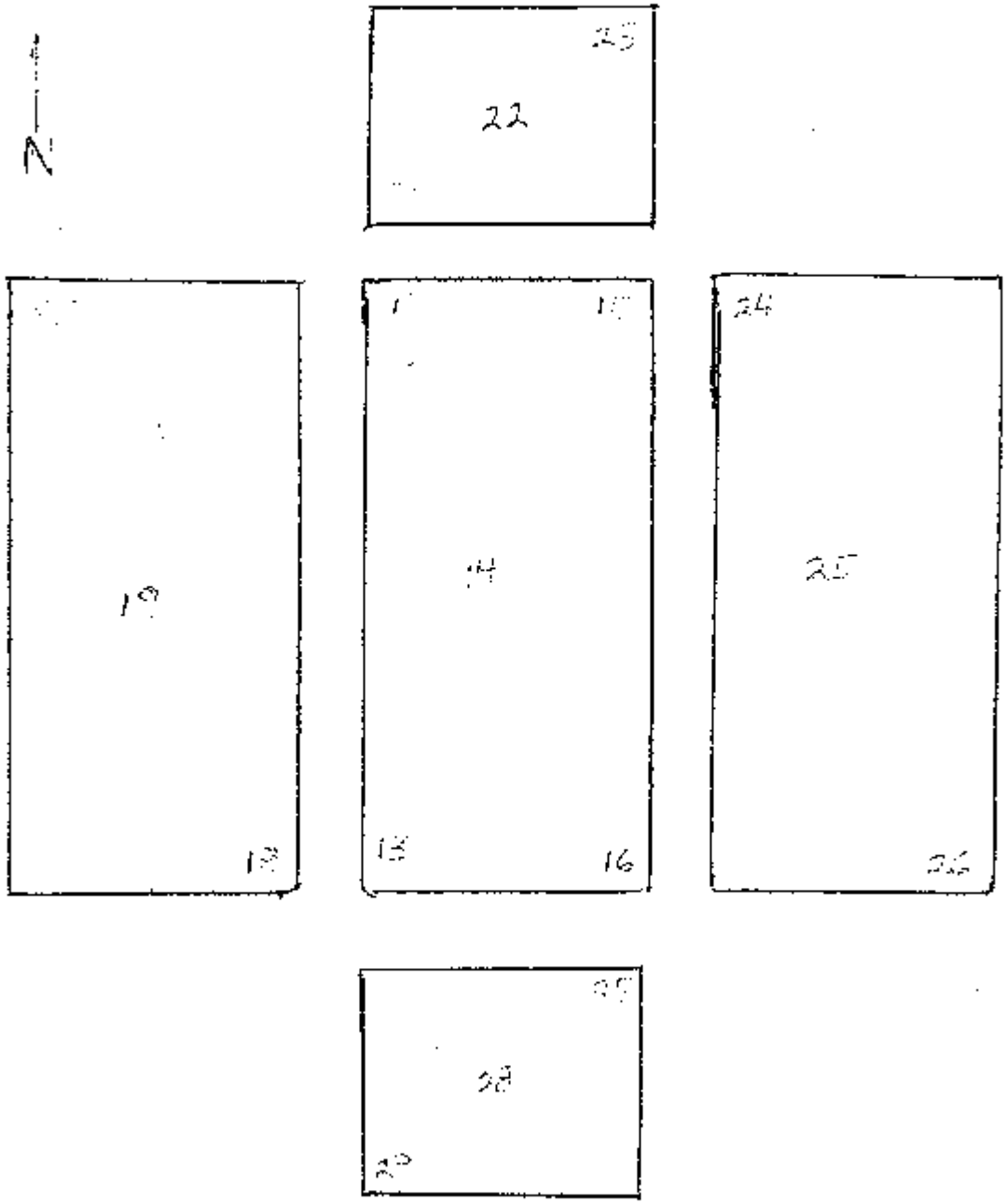
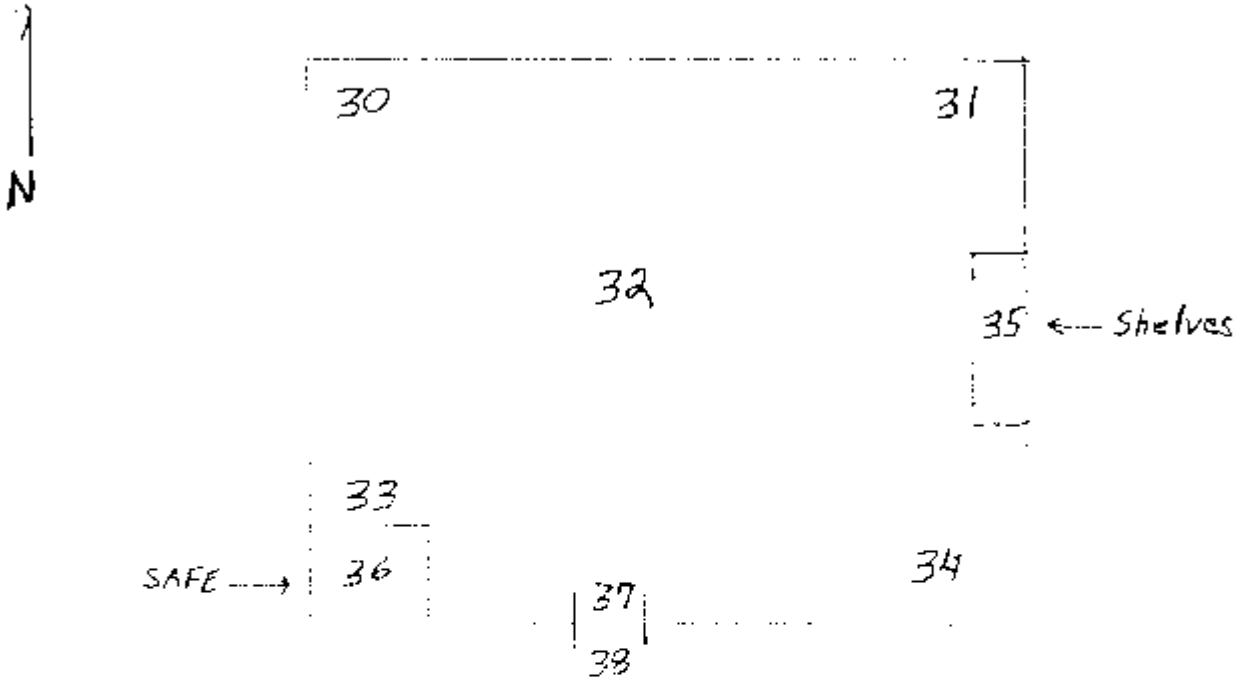
GLOSTER ARMORY
INDOOR FIRING RANGE
6 FEBRUARY 2013
LEAD WIPE SAMPLE LOCATIONS



GLOSTER ARMORY
ARMS VAULT
6 FEBRUARY 2013
LEAD WIPE SAMPLE LOCATIONS



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TO:
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA,GEORGIA 30340-3704

FROM:
Non-Responsive
18 BOAT COURT
PLACIDA, FLORIDA 33946

RE:
LEAD WIPE SAMPLES FROM MISSISSIPPI ARMY NATIONAL GUARD (MSARNG) ARMORYS (McCOMB, GLOSTER, AND NEW HAVEN)

GENTLEMEN:
PLEASE FIND ENCLOSED LEAD WIPE SAMPLES FOR THE ABOVE MENTIONED MS ARNG ARMORYS.
I HAVE ENCLOSED YOUR CHAIN OF CUSTODY FORMS AND MY SPREADSHEETS FOR THE ARMORYS ALONG WITH THE SAMPLES.
EACH PACKET (INDIVIDUAL ARMORYS) HAS THIS MEMORANDUM AND THEIR RESPECTIVE SPREADSHEETS.
INVOICING SHOULD GO TO NGB INDUSTRIAL HYGIENE SOUTH, COLLEGE PARK, GA AS PER BPA AGREEMENT.
IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME TELEPHONICALLY
Non-Responsive
PLEASE SEND THE RESULTS VIA THE E-MAIL ABOVE.

Sincerely,
Non-Responsive

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1062

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Boat Court
Placida, FL 33946
Contact: [redacted]
Phone:
Fax:
Project Name/#: MS ARNG, Gloster Armory
Samplers Name: [redacted]
Sampling Date: 05 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
[redacted]0G	BLANK								Lead
01G	Drill Floor								
02G	Drill Floor								
03G	Drill Floor								
04G	Drill Floor								
05G	Drill Floor								
06G	Drill Floor								
07G	Drill Floor								
08G	Drill Floor								
09G	Drill Floor								
10G	Drill Floor								
11G	Drill Floor								
12G	Drill Floor								
13G	Firing Range								
14G	Firing Range								
15G	Firing Range								
16G	Firing Range								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB - IH Region South, College Park, GA - BPA agreement

Relinquished By:	[redacted]		
Received By:			
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Box Ct.
Placida, FL 33946

Contact: [redacted]
Phone:
~~Fax:~~

Project Name/#: MS ARNG Gloster Armory
Samplers Name: [redacted]
Sampling Date: 5 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
17G	Firing Range								LEAD
18G	Firing Range								
19G	Firing Range								
20G	Firing Range								
21G	Firing Range								
22G	Firing Range								
23G	Firing Range								
24G	Firing Range								
25G	Firing Range								
26G	Firing Range								
27G	Firing Range								
28G	Firing Range								
29G	Firing Range								
30G	Arms Vault								
31G	Arms Vault								
32G	Arms Vault								
33G	Arms Vault								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB IH Region South, College Park, GA; BPA agreement

Relinquished By:	[redacted]
Received By:	
Relinquished By:	
Received By:	Date/Time

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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NALYTICAL ENVIRONMENTAL SERVICES, INC.
785 Presidential Pkwy., Atlanta, GA 30340-3704
EL: (770) 457-8177 / TOLL FREE: (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: 5 Page 3 of 3

OMPANY: HINCHCO

MS ARNG, Gloster Armory

ONE [redacted]

MPL

Non-Responsive

Non-Responsive [redacted]

ANALYSIS REQUESTED

#	SAMPLE ID	DATE	TIME	Grab	Compo	Matrix (See co	PRESERVATION	REMARKS	No # of Containers
	34G Arms Vault	5 Feb 13						Test for LEAD	
	35G Arms Vault	5 Feb 13							
	36G Arms Vault	5 Feb 13							
	37G Arms Vault	5 Feb 13							
	38G Arms Vault	5 Feb 13							
	39G Kitchen, Top Cabinet	5 Feb 13							
	40G Kitchen, Top Cabinet	5 Feb 13							

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ELINQUISHED BY DATE/TIME

[redacted]

RECEIVED BY DATE/TIME

1:

2:

3:

PROJECT INFORMATION

PROJECT NAME: MS ARNG, GLOSTER Armory

PROJECT #:

FAC ID#:

SITE ADDRESS:

PROJECT MANAGER:

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

RECEIPT

Total # of Containers

Turnaround Time Request

- ☒ Standard 3-5 Business Days
- ○ Same Day Rush (auth req.)
- ○ Next Business Day Rush
- ○ 2 Business Day Rush
- ○ Other _____

PROGRAM (see codes): _____

DATA PACKAGE: I II III IV

PECIAL INSTRUCTIONS/COMMENTS:
Bill to NGB Industrial Hygiene Region South, College Park, GA

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER _____

D#:

UOTE/CONTRACT #:

ATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

RESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify) NA = None

REGRAM: FL FLDC UST MSUST NCUST GAUST GACON CONN ite Co IGIN ow Co B; Pin CLIE

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APPENDIX F
MOLD SAMPLE WORKSHEET
AND RESULTS

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 20, 2013

Non-Responsive

PO BOX 3083
Placida FL 33946

TEL: Non-Responsive
FAX:

RE: MS ARNG, Gloster Armory

Dear Non-Responsive

Order No: 1302890

Analytical Environmental Services, Inc. received 2 samples on 2/11/2013 10:20:00 AM for the analyses presented in following report.

No problems were encountered during analysis, except where noted in the case narrative.

AES' certifications are as follows:
-AIHA Certification ID #100671 for analysis of Environmental Microbiology (Fungal), effective until 09/01/13.

These results relate only to the items tested. Results are not blank corrected unless stated in the Case Narrative. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

1302890
~~1302888~~
MJ 2/12/13

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Boat Court
Placida, FL 33946

Contac[redacted]
Phon[redacted]
Fa[redacted]

Project Name/#: MS ARNG Gloster Armory
Samplers Name: [redacted]
Sampling Date: 05 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
01GM	Ceiling Tile, Classroom								MOLD
02GM	Ceiling Tile, Classroom								MOLD

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: Bill to: Industrial Hygiene Region South, College Park, GA per BPA agreement

Relinquished By:	[redacted]	Date/Time	
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: [redacted]
Lab Recipient: [redacted]
Date: [illegible] 10:20

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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~~1302888~~ MS 2/12/10

MS 1302890

BULK SAMPLE SPREADSHEET FOR
MS ARNG, GLOSTER ARMORY, GLOSTER, MISSISSIPPI

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
05 FEB 13	01GM	CLASSROOM	MOLD
05 FEB 13	02GM	CLASSROOM	MOLD

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Non-Responsive

Analytical Environmental Services, Inc.

3785 Presidential Pkwy, Atlanta GA 30340-3704 TEL:(770) 4578177 /TOLL FREE: (800) 972-4889 /FAX: (770-) 457-8188

Client: HINCHCO
PO BOX 3083
Placida, FL 33946
Attn: George Hinchliffe

Client Project: MS ARNG, Gloster Armory
Date Collected: 2/5/2013
Date Received: 2/11/2013
Date Analyzed: 2/18/2013

Work Order: 1302890
Analyst: JW
Date Reported: 2/18/2013
Date Modified:

Direct Examination for Mold spores: Tape, Swab, or Bulk

Sample ID	01GM	02GM	-	-	-	-
Laboratory ID	1302890-001A	1302890-002A	-	-	-	-
Sample Location	Ceiling Tile, Classroom	Ceiling Tile, Classroom	-	-	-	-
Fungal Species	Result	Result	-	-	-	-
Agrocybe/Coprinus	-	-	-	-	-	-
Alternaria	-	-	-	-	-	-
Ascomycetes	-	-	-	-	-	-
Aspergillus/Penicillium	Rare	Loaded	-	-	-	-
Arthrinium	-	-	-	-	-	-
Basidiomycetes	-	-	-	-	-	-
Bipolaris	-	-	-	-	-	-
Chaetomium	-	Rare	-	-	-	-
Cladosporium	Rare	Rare	-	-	-	-
Curvularia	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycete/Smut	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-
Paecilomyces	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-
Stachybotrys	Loaded*	Loaded*	-	-	-	-
Stemphilium	-	-	-	-	-	-
Torula	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
Aureobasidum	-	-	-	-	-	-
	-	-	-	-	-	-
Unidentifiable	-	-	-	-	-	-

Semi-Quantitative Concentrations

Rare:	1-25 spores seen on Prep
Few:	26-50 spores seen on Prep
Moderate:	51-75 spores seen on Prep
Many:	76-100 spores seen on Prep
Loaded:	Greater than 100 spores seen on Prep

* Hyphae and Fruiting Structures Present

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client [redacted] Non-Responsive

Work Order Number 1302890

Checklist completed by [redacted] Non-Responsive Signature 2/13/13 Date

Carrier name: FedEx __ UPS __ ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 Amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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TO:
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA, GA 30349-3704

FROM:
Non-Responsive
18 BOAT COURT
PLACIDA, FL 33946

RE: TWO (2) BULK SAMPLES; TEST FOR MOLD

GENTLEMEN:
I HAVE ENCLOSED YOUR CHAIN OF CUSTODY FORM, MY SPREADSHEET,
AND THE TWO SAMPLES MENTIONED ABOVE;
PLEASE SAMPLE FOR MOLD PRESENCE.
IF YOU HAVE ANY QUESTIONS OR NEED TO CONTACT ME, DO SO
TELEPHONICALLY: Non-Responsive E-MAIL:
Non-Responsive

BILLING SHOULD GO TO INDUSTRIAL HYGIENE REGION SOUTH,
COLLEGE PARK, GA, PER BPA AGREEMENT.

PLEASE SEND RESULTS VIA E-MAIL ABOVE.

SINCERELY
Non-Responsive

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO Contact: [redacted] Project Name/#: MS ARNG Gloster Armory
Address: 18 Boat Court Phone: Samplers Name: [redacted]
Placida, FL 33946 ~~Fax:~~ e-mail: Sampling Date: 05 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
01GM	Ceiling Tile, Classroom								MOLD
02GM	Ceiling Tile, Classroom								MOLD

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: Bill to: Industrial Hygiene Region South, College Park, GA per BPA agreement

Relinquished By:	[redacted]	Date/Time	
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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BULK SAMPLE SPREADSHEET FOR
MS ARNG, GLOSTER ARMORY, GLOSTER, MISSISSIPPI

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
05 FEB 13	01GM	CLASSROOM	MOLD
05 FEB 13	02GM	CLASSROOM	MOLD

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APPENDIX F
PHOTOGRAPH INDEX
AND
PHOTOGRAPHS

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PHOTOGRAPH INDEX

1. NORTH SIDE (ENTRANCE)
2. WEST SIDE
3. SOUTH SIDE
4. EAST SIDE
5. DRILL FLOOR
6. FIRING RANGE
7. ARMS VAULT
8. ARMS VAULT
9. KITCHEN
10. KITCHEN
11. SUPPLY OFFICE
12. SUPPLY
13. CLASSROOM
14. CLASSROOM
15. LEARNING CENTER
16. LIBRARY/CLASSROOM
17. LIBRARY/CLASSROOM
18. MAIN OFFICE/AST OFFICE

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MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#1 – NORTH SIDE (ENTRANCE)

#2 – WEST SIDE

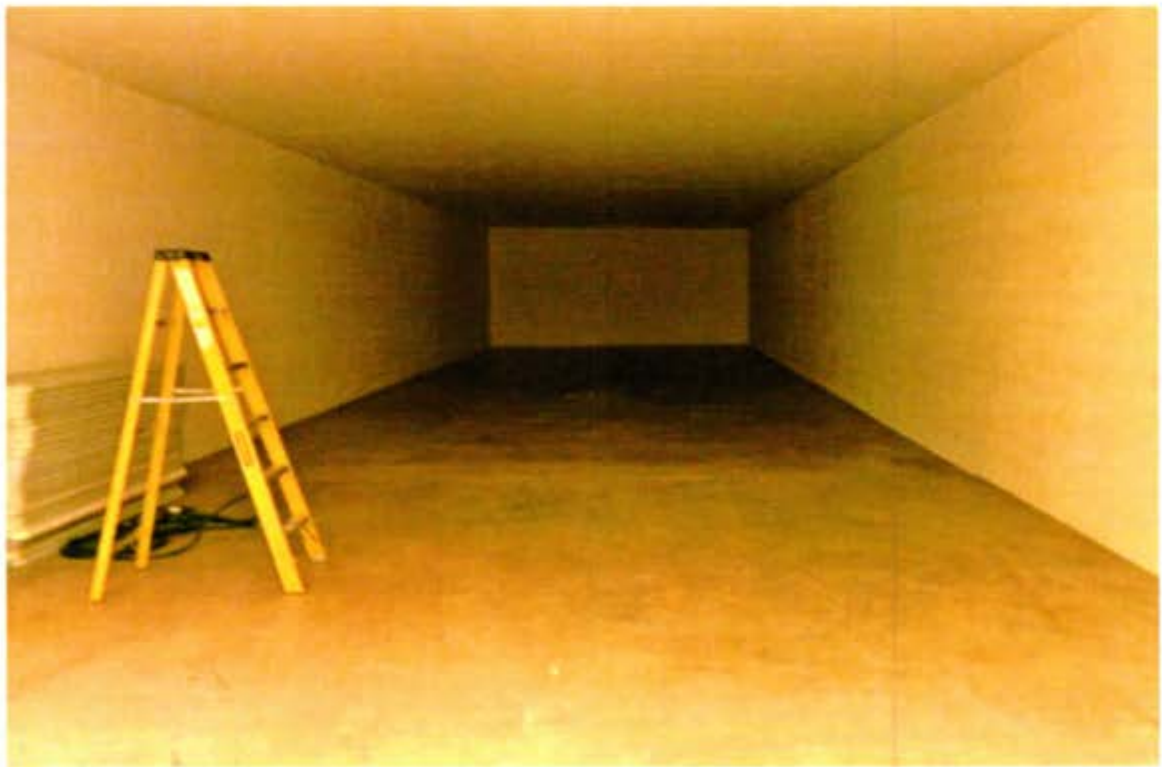
MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#3 – SOUTH SIDE

#4 – EAST SIDE

MS ARNG GLOSTER ARMORY PHOTOGRAPHS

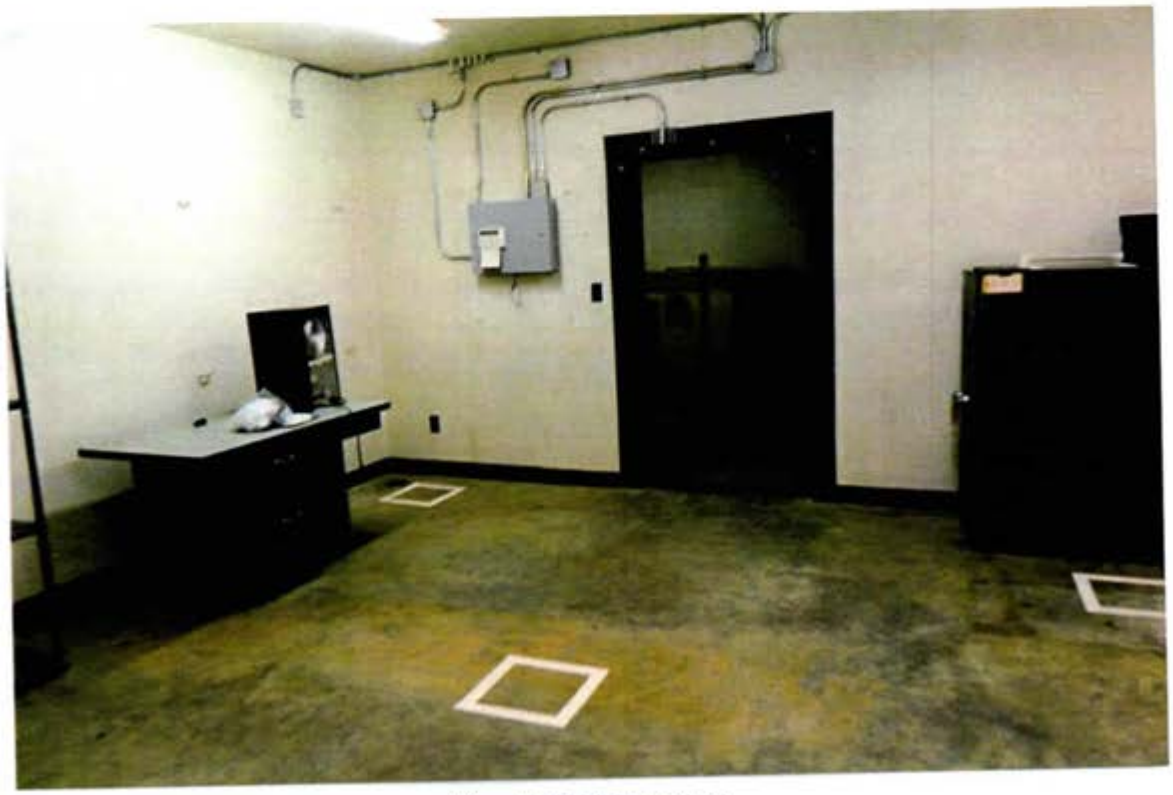
#5 – DRILL FLOOR



#6 – FIRING RANGE

MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#7 – ARMS VAULT



#8 – ARMS VAULT

MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#9 – KITCHEN

#10 – KITCHEN

MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#11 – SUPPLY OFFICE

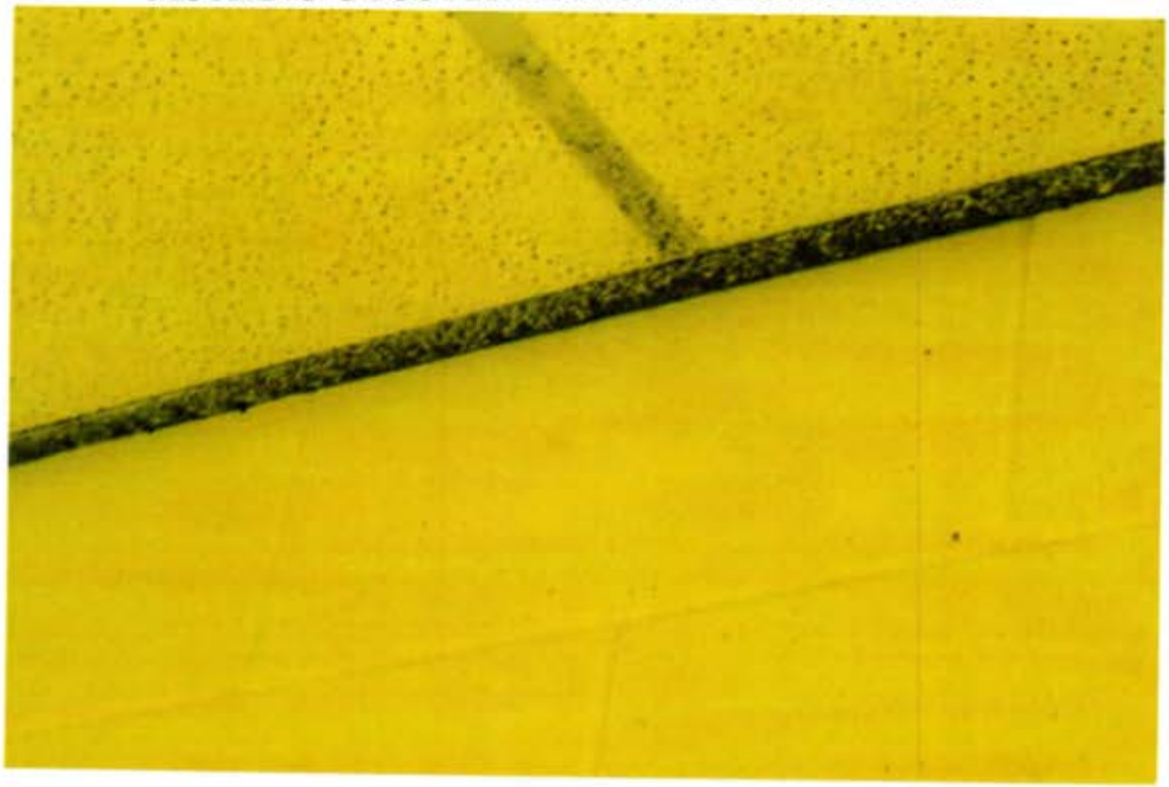
#12 – SUPPLY

MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#13 – CLASSROOM

#14 – CLASSROOM

MS ARNG GLOSTER ARMORY PHOTOGRAPHS



#15 – LEARNING CENTER

#16 – LIBRARY/CLASSROOM

MS ARNG GLOSTER ARMORY PHOTOGRAPHS

#17 – LIBRARY/CLASSROOM

#18 – MAIN OFFICE/AST OFFICE

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APPENDIX G
NGB DESIGN GUIDE 415-2
TABLE 8, ELECTRICAL REQUIREMENTS

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ARMY NATIONAL GUARD
DG 415-2
LOGISTICS FACILITIES DESIGN GUIDE

NATIONAL GUARD BUREAU
INSTALLATIONS DIVISION
111 SOUTH GEORGE MASON DRIVE
ARLINGTON, VA 22204-1382

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Table 8. Electrical Requirements

	FUNCTIONAL AREA	LIGHTING	OUTLETS	NOTES
Office Areas				
1	General Supervisor	50 FC		1
2	Supervisor	50 FC		1
3	Production Controller	50 FC		1
4	Inspection and Library	50 FC		1
5	Automation Clerk	50 FC		1
6	Common IT Space	50 FC		2
7	IT Support Activities	50 FC		2
8	Classroom	70 FC		
Personnel Areas				
1	Toilet/Shower	30 FC		
2	Locker Room	30 FC		
3	Break Area	50 FC		
4	Physical Fitness Area	40 FC		2
Work Areas				
1	Tool Room	30 FC		
2	Supply Room	40 FC		
3	Battery Room	50 FC		4
4	Comm. & Electronic Shop	70 FC		2
5	Instrument Repair Shop	70 FC		2
6	Small Arms Repair Shop	70 FC		2
7	Small Arms Test Room	50 FC		2
8	Vault (Small Arms)	40 FC		
9	Vault (CBT Vehicle Arms)	40 FC		
10	Injector Test Room	70 FC		2
11	Fuel and Ignition Repair Shop	70 FC		2
12	Bit Storage/Issue	30 FC		
13	Machine Shop	70 FC		2
14	Carpenter Shop	50 FC		2
15	Lumber Storage Shed	20 FC		

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Table 8. Electrical Requirements (Continued)

	FUNCTIONAL AREA	LIGHTING	OUTLETS	NOTES
16	Canvas Shop	50 FC		2
17	Missile Repair Shop	70 FC		2
18	Vault (Missile)	40 FC		
19	Calibration Room	70 FC		
20	Calibration Storage	30 FC		
21	Glass Repair Room	50 FC		2
22	Radiator Test & Repair Room	50 FC		2
23	COMSEC Repair Room	70 FC		2
24	Radiation Calibration Room	70 FC		
25	Bulk POL Storage for Lubricating Systems	30 FC		
26	Bulk POL Storage	30 FC		
27	Controlled Waste Handling	30 FC		
28	Bulky Equipment Storage	30 FC		
29	Flammable Materials Storage	30 FC		
30	Enclosed Unheated Storage	30 FC		
Work bays				
1	General Purpose Work bay	50 FC		2
2	Warm-Up Bay	50 FC		2
3	Welding Shop	50 FC		2
4	Wash Bay	50 FC		2
5	Paint Stripping Bay	50 FC		2
6	Paint Preparation Bay	50 FC		2
7	Paint Booth	50 FC		2
8	Engine/Transmission Test Cell	50 FC		2
9	Electronics Bay	50 FC		2
10	Body Shop	50 FC		2

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APPENDIX E
HHIM REPORT

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HHIM Report Date: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART I)

Arloc Code: 28000
Building Number: GLOSTER, MS
Location Code: AA
Operation Code: OTE
Survey Date: 5 February 2013

Installation: MS ARNG
Room Number: ARMORY
Location: Entire Bldg.
Operation: TRAINING

Organization/Unit:

Macom Code: NG
Submacom Code: ARNG
Supervisor: SFC Antonio Newell
RAC: 3

Command: NGB
Submacom: MS ARNG
Phone: 601-833-9581
Frequency: 8 Hours/Day

Number of: Military: 0
Civilians:
Contractors:
Others:

Staffing Data

Lab Hoods:
Open Surface Tanks:
Maintenance Bays:
Other:

Spray Booths/Hoods:
Vapor Degreasers:
Ventilation Units:

Operation Comments:

1. The Gloster Armory is located in Gloster, MS. There are no employees stationed at the Gloster Armory.
2. The Armory has not been inhabited by a full-time MS ARNG unit since 1998.
3. An Illumination Survey indicated the Armory has several areas that are below the NGB DG 415-2 illumination standards. In fact, only four areas within the armory meet the standard. The most of the illumination deficiencies can be rectified via burned out bulb replacement.
4. The Armory requires attention to detail. The HVAC system should match the requirements of the outside environment so no mold formation takes place. The building requires minor maintenance to bring it up to standard.

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5. The Indoor Firing Range in the Armory requires some minor rehab to remove the excess lead discovered during the lead wipe testing scenario.
6. Lead Wipes were taken on the Drill Floor, Arms Vault, and Kitchen. Two wipes taken in the Arms Vault indicated a presence of lead. There were no samples close to the 200 ug/sq.ft. action level. Wipes taken n the Kitchen indicatad presence of lead but below the action level. One lead wipe in the Indoor Firing Range was over the 200 ug/sq.ft. action level.
7. The roof and walls had water leaks. A roofing contractor just repaired the leaks a few weeks prior to the IH Survey. The next major rainfall will determine if the repair work was effective.
8. The armory requires full to part time maintenance personnel to ensure no major maintenance problem arises.

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Report Date: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART II)

Arloc Code: 28000
Building Number: GLOSTER , MS
Location Code: AA
Operation Code: OTH
Survey Date: 5 February 2013

Installation: MS ARNG
Room Number: ARMORY
Location: Entire Bldg.
Operation: TRAINING

HAZARDS INVENTORY:

HAZARD	CAS CODE	PAC	EPC
LEAD	7439-92-1	3	A

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Report Date: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART III)

Arloc Code: 28000 Installation: MS ARNG
Building Number: GLOSTER, MS Room Number: ARMORY
Location Code: AA Location: Entire Bldg.
Operation Code: OTH Operation: Training
Survey Date: 5 February 2013

Personnel:

Last Name	First Name	MI	SSN	SEX	Category

ALL FUTURE EMPLOYEES WORKING IN THE GLOSTER ARMORY

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REPORT DATE: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART V)

ARLOC CODE: 28000 INSTALLATION: MS ARNG
BUILDING NUMBER: GLOSTER, MS ROOM NUMBER: ARMORY
LOCATION CODE: AA LOCATION: Entire Bldg.
OPERATION CODE: OTH OPERATION: TRAINING
SURVEY DATE: 5 February 2013

RESPIRATOR	R / U	MANUFACTURER	TC NUMBER
1/2 FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
ABRASIVE BLASTING HOOD			
AIRLINE			
DISPOSABLE			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
SELF CONTAINED			

BODY	R / U
APRONS	
COLD WEATHER CLOTHING	
COVERALLS	
FULL BODY SUIT	
HEAT REFLECTIVE VEST/SUIT	
SAFETY BELT/HARNESS	
SPECIAL PURPOSE CLOTHING	

GLOVES	R / U
ACID	
COLD SURFACES	
COTTON GLOVES	
HOT SURFACES	
NBC AGENTS	
OIL	
SOLVENTS	
SURGICAL GLOVES	

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EYES/FACE	R / U
CHEMICAL/SAFETY	
CHEMICAL/SAFETY	
FULL FACE SHIELD	
LASER EYE PROTECTION	
SAFETY/IMPACT	
SUNGLASSES/GOGGLES	
WELDING HELMET	

HEAD/FEET	R / U
COLD WX BOOTS/HATS	
HARD HATS	
IMPERMABLE BOOTS	
SAFETY/CONDUCTIVE SHOES	
SAFETY/NON-CONDUCTIVE BOOTS	

HEARING	R / U
EAR PLUGS	
HELMETS	
MUFF/PLUG COMBINATION	
MUFF/PLUF COMBINATION + TIME	
MUFFS	

Non-Responsive

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI

August 29, 2003

MEMORANDUM FOR: The Adjutant General of Mississippi, ATTN: Granada Armory Manager, 1779 Jackson Avenue, Granada, MS 38901.

SUBJECT: Transmittal of IH Survey Report of the Granada Armory in Granada, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Govemmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

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NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Granada Armory in Granada, MS.

k. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

l. Report dated 15 August 2003, Industrial Hygiene Survey, Non-Responsive of Tamar Industrial Hygiene Consulting.

2. General.

a. At the request of the MS ARNG Safety and Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling of the Granada Armory, Granada, MS.

b. The surveys were conducted by Non-Responsive of Tamar Industrial Hygiene Consulting, Naperville, IL

3. Findings. All HHIM field survey forms and survey findings of the report. (See enclosure 1)

4. Recommendations.

a. Follow all recommendations made in reference 1.l., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Control water infiltration in the armory and/or replace or repair damaged surfaces or components (ceiling and floor tiles). Building conditions that present IAQ concerns or problems not only exacerbates normally minor health issues but also tend to promote or accelerate building deterioration.

c. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-03. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-04 IHIP.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Granada Armory in Granada, MS.

f. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

5. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive

Non-Responsive
Regional Industrial Hygienist

CF:
NBG-AVN-SH
State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.
State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Grenada Armory
1779 Jackson Avenue
Granada, MS 38901

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive PE
Tammer Sciences, Inc.

August 15, 2003

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Grenada Armory on 18 June 2003 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<10 to 140 microgram per square foot.	No action
Asbestos Bulk Samples	2 % Chrysotile in the Conference Room Floor Tile.	Update the facility asbestos management plan.
Noise Survey	Noise levels were less than 55 dBA.	No action.
Illumination Survey	20 to 100 footcandles	No action.
HVAC/IAQ	No issues.	No action.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Grenada Armory in Grenada, Mississippi on 18 June 2003

BACKGROUND:

Introduction. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Grenada Armory in Grenada, Mississippi. Non-Responsive, contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 18 June 2003. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility houses the Brigade headquarter and Battalion Command. Ten full time employees work at this armory, which was built in 1952 and an Annex was added on in 1972. The building is a one-story structure, which consists of several administrative office areas supporting the Brigade and Battalion, a kitchen, a mess hall, a drill hall, supply room and storage, and an exercise area in the drill hall. The armory does not have an indoor firing range. The floor layout and photos are included in Appendix A.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Quest Sound Level Meter Model 2400 Serial Number J10174219, with a calibration date of June 4, 2002. All noise measurements were area readings. Illumination readings were collected using a digital light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive.

Lead Wipe Samples: Ten wipe samples were collected from various select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
GWDW01	Top of Coke Machine in Drill Hall.	97
GWDW02	Top of Filing Cabinet by Exercise Area in Drill Hall.	140
GWDW03	Top of 1st Aid Cabinet in Brigade Support Offices.	<10
GWDW04	Top of Weight Lifting Machine in Exercise Area.	<10
GWDW05	Top of Filing Cabinet in Orderly Office.	<10
GWDW06	Return Filing Cabinet in Operation Room.	140
GWDW07	Top of Refrigerator in Kitchen.	<10
GWDW08	Top of Safe in Mess Hall.	<10
GWDW09	Top of Cabinet in Training Office.	<10
GWDW10	Top of Television in Commander Office.	<10
GWDW11	Field Blank.	<10

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: An asbestos survey was performed in 1999 and found the corrugated panels on the side of the annex as containing asbestos. No report was available to review. Six types of building materials were identified as potentially containing asbestos. The identified types included four types of 12 by 12 inches floor tiles, and two types of 2x4 feet ceiling tiles. A total of six bulk samples were collected randomly from the

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identified materials. Other construction material consisted of cement floors and cinder block walls. The table below lists the samples collected and the results:

Sample #	Description	% Asbestos Type
GNDA01	12x12 inch floor tile typical of Brigade offices.	None.
GNDA02	2x4 feet ceiling tile typical of Brigade offices.	None.
GNDA03	12x12 inch floor tile typical of Staff Conference Room.	2% Chrysotile
GNDA04	12x12 inch floor tile typical of Battery offices.	None.
GNDA05	12x12 inch floor tile typical of Annex area.	None.
GNDA06	2x4 feet ceiling tile typical of Annex Area.	None.

The facility asbestos management plan should be updated to include the floor tiles in the Conference room. The laboratory report and chain of custody forms are attached in Appendices B and C.

Noise Survey Area noise readings were collected in the various surveyed areas within the armory and reported as a range. The Table below lists the noise reading ranges as recorded on the day of the survey:

Area	Reading in Decibels on the A-Scale (dBA)
Drill Hall	< 55
Chaplain's Office	< 55
SGM Office Brigade CSM	< 55
XO Office	< 55
HQ Support Staff	< 55
Staff Room/Conference Room	< 55
Communication Room	< 55
Battery Commander Office	< 55
Orderly Office	< 55
Readiness NCO Office	< 55
Library	< 55
Operations Office	< 55
Supply Storage	< 55
Cage Area in Supply	< 55
Kitchen	< 55

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Mess Hall	< 55
Brigade Training	< 55
Training Officer Office	< 55
PSCNOC	< 55
Battery Commander	< 55
Brigade Commander Office	< 55

All readings are well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 20 foot-candles to 100 foot-candles. Specific readings were as follows:

Area	Reading in Foot-candles
Drill Hall	20 – 30
Chaplain's Office	60 – 70
SGM Office Brigade CSM	40 – 80
XO Office	40 – 70
HQ Support Staff	30 – 50
Staff Room/Conference Room	60 – 80
Communication Room	45 – 60
Battery Commander Office	60 – 65
Orderly Office	70 – 80
Readiness NCO Office	50 – 100
Library	40 – 100
Operations Office	60 – 80
Supply Storage	30 – 70
Cage Area in Supply	20 – 25
Kitchen	25 – 35
Mess Hall	25 – 45
Brigade Training	60 – 80
Training Officer Office	80 –100
PSCNOC	30 – 50
Battery Commander	40 – 50
Brigade Commander Office	30 – 40

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The Army Design Guide (DG415-2) recommends a minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of three roof top units serving the annex and original building. It was not clear whether the ventilation system has outside makeup air to the office spaces. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

Update the facility asbestos management plan to include the tiles in the conference room.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive [redacted] Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive [redacted]

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APPENDIX A

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Photo #1: Grenada Armory Front Entrance and West Side.

Photo #2: South End of the Armory.

Photo #3: A View of the North West side of the Armory.

Photo #4: View of the North Side of the Armory.

Photo #5: North Side of the Drill Hall.

Photo #6: Drill Hall Facing South.

Photo #7: Kitchen.

Photo #8: Mess Hall.

Photo #9: Exercise Room in the Drill Hall.

Photo #10: Sample of Floor Tile Found in the Mess Hall.

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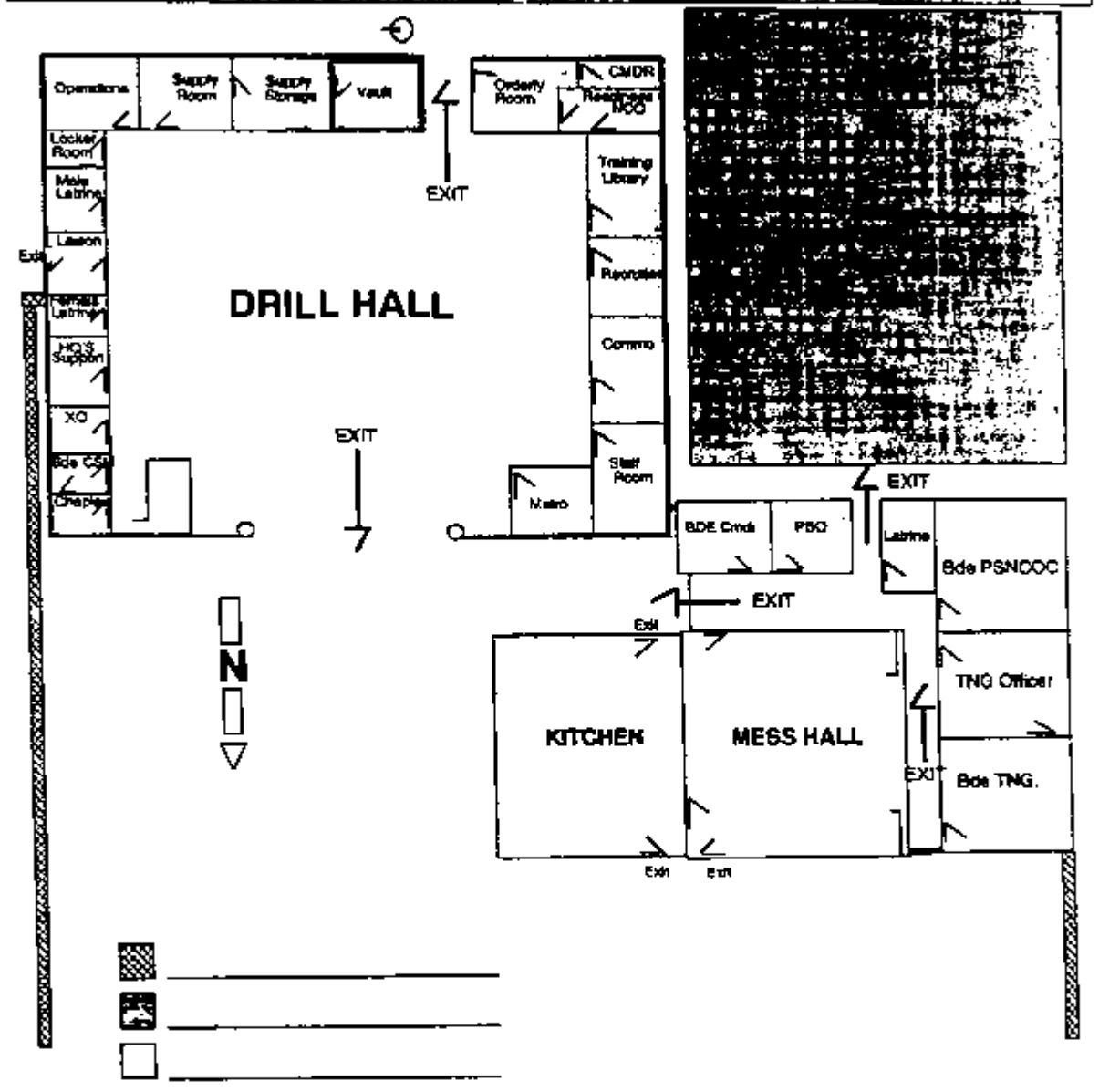
ANNEX G (EMERGENCY EVACUATION PLAN)

Updated: 15 Oct 2002

[redacted]



Grenade Armory

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EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-8651 Email: gmiller1@emsl.com

EMSL

Attn: Tammer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: (630) 369-7957 Phone: (630) 369-7956
Project: Greneda

Customer ID: TS80
Customer PO:
Received: 06/23/03 10:49 AM
EMSL Order: 200306553
EMSL Project ID:

Lead in Wipes by Flame AAS (SW 846, 7420)

Client Sample Description		Lab ID	Analyzed	Area Sampled	Lead Concentration
GNDW01	Results for these wipe samples do not meet the EPA standards for sample matrix and are not recognized under the NLLAP accreditation program	0001	7/7/03	144 in²	97.0 µg/ft²
GNDW02		0002	7/7/03	144 in²	140.0 µg/ft²
GNDW03		0003	7/7/03	n/a	<10.0 µg/wipe
GNDW04		0004	7/7/03	n/a	<10.0 µg/wipe
GNDW05		0005	7/7/03	n/a	<10.0 µg/wipe
GNDW06		0006	7/7/03	n/a	140.0 µg/wipe
GNDW07		0007	7/7/03	n/a	<10.0 µg/wipe
GNDW08		0008	7/7/03	n/a	<10.0 µg/wipe
GNDW09		0009	7/7/03	n/a	<10.0 µg/wipe
GNDW10		0010	7/7/03	n/a	<10.0 µg/wipe
GNDW11		0011	7/7/03	n/a	<10.0 µg/wipe

Non-Responsive

[redacted]

AIHA: 100194
or other approved signatory

The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comment section.
ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194

Date Printed: 7/7/03 4:57:46 PM

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APPENDIX B

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EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: asiegel@EMSL.com

EMSL

Attn: Non-Responsive
Tammer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: (630) 369-7957 Phone: (630) 369-7956
Project: MSARNG

Customer ID: TS80
Customer PO:
Received: 06/25/03 5:35 PM

EMSL Order: 040310567
EMSL Project ID:
Analysis Date: 7/3/2003

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos %	Fibrous	Non-Asbestos %	Non-Fibrous	Asbestos %	Type
GNDA01 040310567-0001		Tan Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	100%	Non-fibrous (other)	None Detected	
GNDA02 040310567-0002		Grayish Fibrous Heterogeneous	Teased	30% 20%	Cellulose Min. Wool	50%	Non-fibrous (other)	None Detected	
GNDA03 040310567-0003		Tan Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	98%	Non-fibrous (other)	2%	Chrysotile
GNDA04 040310567-0004		Grayish Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	100%	Non-fibrous (other)	None Detected	
GNDA05 040310567-0005		Grayish Non-Fibrous Heterogeneous	Crushed Dissolved	2%	Cellulose	98%	Non-fibrous (other)	None Detected	
GNDA06 040310567-0006		Tan Fibrous Heterogeneous	Teased	40% 15%	Cellulose Min. Wool	45%	Non-fibrous (other)	None Detected	

Non-Responsive

Analyst(s)
Kristy Reeves (5)

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLM-1

1

THIS IS THE LAST PAGE OF THE REPORT.

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APPENDIX C

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FOIA Requested Record #J-15-0085 (MS)
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26030653

LEAD

EMSL ANALYTICAL CHAIN OF CUSTODY

Date: _____ EMSL Representative: _____ Project Name/No.: _____ P.O.#: _____

Company Name: Tammer Sciences, Inc. EMSL-Bill to: Same as

Street: 3744 Lawrence Drive Street: _____

Box #: _____ Box #: _____

City/State: Naperville, IL Zip: 60564 City/State: _____ Zip: _____

Phone Results to: (Name) [redacted] Telephone: [redacted]

Fax Results to: (Name) [redacted] Fax #: [redacted]

Non-Responsive

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod. / AOAC (974.02)	Flame Atomic Absorption	0.01% ++	
Lead Wastewater Lead Soil +	SW846-7420 or SW846-6010B	Flame Atomic Absorption ICP	0.4 mg/l water 40 mg/kg (ppm) soil 0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air***	NIOSH 7082 Mod. or NIOSH 7500 Mod.	Flame Atomic Absorption ICP	4 ug/filter 3.0 ug/filter	
Lead in Wipe~ ☐-ASTM List Wipe Type ☐-non ASTM	SW846-7420 / HUD Appendix 14.2 Digest. or SW846-6010B	Flame Atomic Absorption ICP	10 ug/wipe 3.0 ug/wipe	6-10
TCLP Lead **	SW846-1311/ 7420 or SW846-6010B	Flame Atomic Absorption ICP	0.4 mg/l (ppm) 0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 [illegible] / SW846-7420 or SW846-6010B	Flame Atomic Absorption ICP	0.4 mg/l (ppm) 0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead Wastewater Lead Soil +	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water 0.3 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification Requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

~If no box is checked, non-ASTM is assumed

SAMPLE#	LOCATION	Air volume, L Area, in^2	LAB#
GNDW01		144 in^2	8653.1
GNDW02		"	.2

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/23/03 1047

Received at EMSL By: _____ Date: _____

Non-Responsive

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 w STLC.doc

Page 1 of 2

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2430553

EMSL ANALYTICAL CHAIN OF CUSTODY LEAD

SAMPLE#	LOCATION	Air volume, L Area, in²	LAB#
			66553 3
GNDW03			4
GNDW04			5
GNDW05			6
GNDW06			7
GNDW07			8
GNDW08			9
GNDW09			10
GNDW10			11
GNDW11			

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/23/03

Received at EMSL By: [redacted] Date:

Non-Responsive

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Page 2 of 2

Lead Chain Nov 2001 v STLC.doc

EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

040310567

EMSL Rep:

Your Company Name: Tammer Sciences, Inc.
Street: 3744 Lawrence Drive
Box #:
City/State: Naperville, IL Zip: 60564

Phone Results to:
Name: Non-Responsive
Telephone #:
Project Name/Number: [redacted]

Third Party Billing requires written authorization from third party

EMSL-Bill to: Same
Street:
Box #:
City/State: Zip:

Fax Results to:
Name: Non-Responsive
Fax #:
Purchase Order #:

MATRIX			TURNAROUND			
☐ Air	☐ Floor Tile	☐ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☑ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☐ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☑ 144+ hours 6-10 Days			

TEM AIR, 3 hours, 6 hours. Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-36 [illegible] for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m. Mon - Fri.), Please Refer to Price Quote

PCM - Air
☐ NIOSH 7400
☐ OSHA
☐ Other:

TEM AIR
☐ AHERA
☐ NIOSH 7402
☐ EPA Level II

TEM WATER
☐ Wastewater
☐ Drinking Water EPA 100.1
☐ Water - NY Wastewater
☐ Water-NY Drinking Water

PLM - Bulk
☑ EPA 600/R-93/116
☐ EPA Point Count
☐ NY Stratified Point Count
☐ PLM NOB (Gravimetric) NY 198.1
☐ Other:

TEM BULK/misc
☐ Drop Mount (Qualitative)
☐ [illegible]
☐ TEM NOB (Gravimetric) NY 198.4

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

TEM MICROVAC / WIPE
☐ ASTM D 5755-95 quantitative method

XRD
☐ Asbestos
☐ Silica

SEM Air or Bulk
☐ Qualitative
☐ Quantitative

OTHER
☐

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)

Total Samples #: 6

Client Sample # (s): GNDA01 - GNDA06

Relinquished: Non-Responsive Date: 6/20/03 Time:

Received: Date: Time:

1

7/3/03

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 47000

Installation:

Building: ARMORY

Room Number:

[redacted]

Evaluator-HNUS: [redacted]

Macom: NG

Submacom: XX

RAC:

Unit / Organization (45): HQ 631st FA bde, Grenada, MS

Commercial: [redacted]

Frequency (hrs/day):

No. CIVs:

No. MIL: 10

Contractors:

No. LOCs:

Controls Present (If >6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit code:

Controls Required (25 characters max): N/A

Manufacturer's Description (10 characters max):

NIOSH TC # or Foreign equivalent (10 characters max):

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(> 85-105 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(105-115)muff/earplug comb			
muffs and earplugs			
(115 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

Non-Responsive

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
PONOISECO				Asbestos Floor tile
POFOOTHAZ				
POFLYPROJ				
POEYEMAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTGLIE				
POELSHOCK				
COLUSEOIL				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category
	N/A	N/A			

☐ Personnel data provided by the facility is attached to this form

Comments

Remember to comment on problems, recommendations, and needed control issues

Operation described is

(comments continued on attached)

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form

There is a ventilation data sheet attached to this form

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 47000

Installation:

[redacted] Non-Responsive

Building: ARMORY

Evaluator-HNUS: [redacted]

Macom: NG

Submacom: XX

RAC:

Room Number:

Unit / Organization (45): HQ 631 st FA bde, Grenada, MS

DSN: [redacted]

Commercial: [redacted]

Frequency (hrs/day):

No. CIVs:

No. MIL: 10

Contractors:

No. LOCs:

Ventilation Units:

Controls Present (If >6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit code:

Controls Required (25 characters max): N/A

Manufacturer's Description (10 characters max):

NIOSH TC # or Foreign equivalent (10 characters max):

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-105 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(105-118) muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAO ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

CAS code

POHOSECO
POFOOTHAZ
POFLYPROJ
POEYEHAZA
POFLAMHAZ
POLIFTMO
POSHARPOB
POHOTOBJE
POELSHOCK
COLUMBOK

PAC

EPC

Hazard Description: Lead dust from Small Fire arms cleaning

Social Security Number or Unique Identifier

Last Name (20 characters max)

First Name (20 characters max)

MI

Sex

Category

☐ Personnel data provided by the facility is attached to this form

Comments: Remember to comment on problems, recommendations, and needed output items

Operation described is

All wipe samples were less than 200 ug/ft²

[redacted] (comments continued on attached)

☐ This operation was explained to the evaluator, but was not actually observed.

There is a noise data sheet attached to this form [redacted]

There is a ventilation data sheet attached to this form [redacted]

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APPENDIX E

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REFERENCES

1. American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23rd Edition, 1998.

2. American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

3. American National Standards Institute, Z358.1-1998. Emergency Eyewash and Shower Equipment 1998.

4. Army Regulation (AR) 11-34, The Army Respiratory Protection Program, 1990

5. Army Regulation (AR) 40-5, Preventative Medicine, 15 October 1990.

6. Army Regulation (AR) 385-10, The Army Safety Program, 23 May 1988.

7. National Fire Protection Association (NFPA) No. 30, Standard for Flammable and Combustibles Liquid Code, 1996.

8. National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.

9. NGR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

10. TB MED 503, The Army Industrial Hygiene Program, February 1985.

11. Title 29, Code Of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

12. TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

13. TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI

August 29, 2003

MEMORANDUM FOR: The Adjutant General of Mississippi, ATTN: Greenwood Armory Manager, 1002 Sycamore Street, Greenwood, MS 38930

SUBJECT: Transmittal of IH Survey Report of the Greenwood Armory in Greenwood, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

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NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Greenwood Armory in Greenwood, MS.

k. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

l. Report dated 15 August 2003, Industrial Hygiene Survey, Mr. Kal Kawar of Tamar Industrial Hygiene Consulting.

2. General.

a. At the request of the MS ARNG Safety and Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling of the Greenwood Armory in Greenwood, MS.

b. The surveys were conducted by Non-Responsive [redacted] of Tamar Industrial Hygiene Consulting, Naperville, IL

3. Findings. All HHIM field survey forms and survey findings of the report. (See enclosure 1)

4. Recommendations.

a. Follow all recommendations made in reference 1.l., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Control water infiltration in the armory and/or replace or repair damaged surfaces or components (ceiling and floor tiles). Building conditions that present IAQ concerns or problems not only exacerbates normally minor health issues but also tend to promote or accelerate building deterioration.

c. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-03. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-04 IHIP.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Greenwood Armory in Greenwood, MS.

f. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

5. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive

Non-Responsive

CF:
NBG-AVN-SH
State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.
State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Greenwood Armory
1002 Sycamore Street
Greenwood, MS 38930

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] CIH PE
Tammer Sciences, Inc.

August 15, 2003

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Greenwood Armory in Greenwood, Mississippi on 18 June 2003

BACKGROUND:

Introduction. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Greenwood Armory in Greenwood, Mississippi. Non-Responsive contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 18 June 2003. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1989, houses the headquarters for the 1st Battalion, and the 114 Field Artillery Battalion. Eleven full time employees work at this armory. The building is a one-story structure, which consists of several administrative office areas supporting the Battalion and Battery, a kitchen, training or classrooms, a drill hall, supply rooms and storage, and an exercise room. The armory does not have an indoor firing range. The floor layout and photos are included in Appendix A.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Quest Sound Level Meter Model 2400 Serial Number J10174219, with a calibration date of June 4, 2002. All noise measurements were area readings. Illumination readings were collected using a digital light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Greenwood Armory on 18 June 2003 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<10 to 17 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	Noise levels were less than 60 dBA.	No action.
Illumination Survey	10 to 50 footcandles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room.	Consider replacing the wood with metal.

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Sample #	Description	% Asbestos Type
GWDA1	12x12 inch floor tile typical of offices and hallway.	None.
GWDA1A	Mastic found on the back of tiles.	None.

The laboratory report and chain of custody forms are attached in Appendices B and C.

Noise Survey Area noise readings were collected in the various surveyed areas within the armory and reported as a range. The Table below lists the noise reading ranges as recorded on the day of the survey:

Area	Reading in Decibels on the A-Scale (dBA)
Battalion Training Room	48 – 52
Battalion Staff Office	50 – 55
Battalion Administration Office Area	50 – 55
Battalion PBO Office	48 – 52
Battalion Supply Area	45 – 50
Drill Hall	45 – 50
Kitchen	42 – 48
Food Storage	45 – 50
Classroom 123	45 – 48
Battery Training	48 – 52
Battery Commander Office	50 – 55
Battery Office Area	47 – 52
Classroom 129	45 – 52

All readings are well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 10 foot-candles to 50 foot-candles. Specific readings were as follows:

Area	Reading in Foot-candles
Battalion Training Room	10 – 30
Battalion Staff Office	20 – 30
Battalion Administration Office Area	20 – 30

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted]

Lead Wipe Samples: Ten wipe samples were collected from various select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
GWDW01	Top of Serving Line in Kitchen.	<10
GWDW02	Top of Shelf above Sink.	<10
GWDW03	Top of Ice Maker in Drill Hall.	<10
GWDW04	Top of Fire Extinguisher Case in Drill Hall.	17
GWDW05	Top of Cabinet in Classroom 123.	<10
GWDW06	Return Air Grill in Btn. Staff Office.	<10
GWDW07	Supply Air Diffuser in Office 108 Btn. Operation.	<10
GWDW08	Return air Grill in Battery Administration Office Room 133.	18
GWDW09	Supply Air Diffuser above Sgt. McKay's desk in Room 133.	<10
GWDW10	Top of Table next to Small Arms Cleaning Stations Drill Hall.	<10
GWDW11	Field Blank.	<10

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: One type of building materials was identified as potentially containing asbestos. The identified type was 12 by 12 inches floor tile and mastic. Other construction material consisted of cement floors and cinder block walls. The table below lists the samples collected and the results:

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Battalion PBO Office	50
Battalion Supply Area	10 – 30
Drill Hall	20 – 30
Kitchen	40
Food Storage	35
Classroom 123	20 – 25
Battery Training	20 – 45
Battery Commander Office	50
Battery Office Area	45 – 50
Classroom 129	40 – 45

The Army Design Guide (DG415-2) recommends a minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of a total of four forced air unit located in a two mechanical rooms. The system is capable to deliver outside makeup air to the occupied space. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive, Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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Photo #1: Greenwood Armory Front Entrance and East Side.

Photo #2: Armory West Side or Rear.

Photo #3: A View of the South side of the Armory.

Photo #4: View of the North End of the Armory.

Photo #5: Drill Hall Facing the Northwest Corner.

Photo #6: Another view of the Drill Hall Facing East.

Photo #7: Small Firearms Cleanup Area in Drill Hall.

Photo #8: Kitchen.

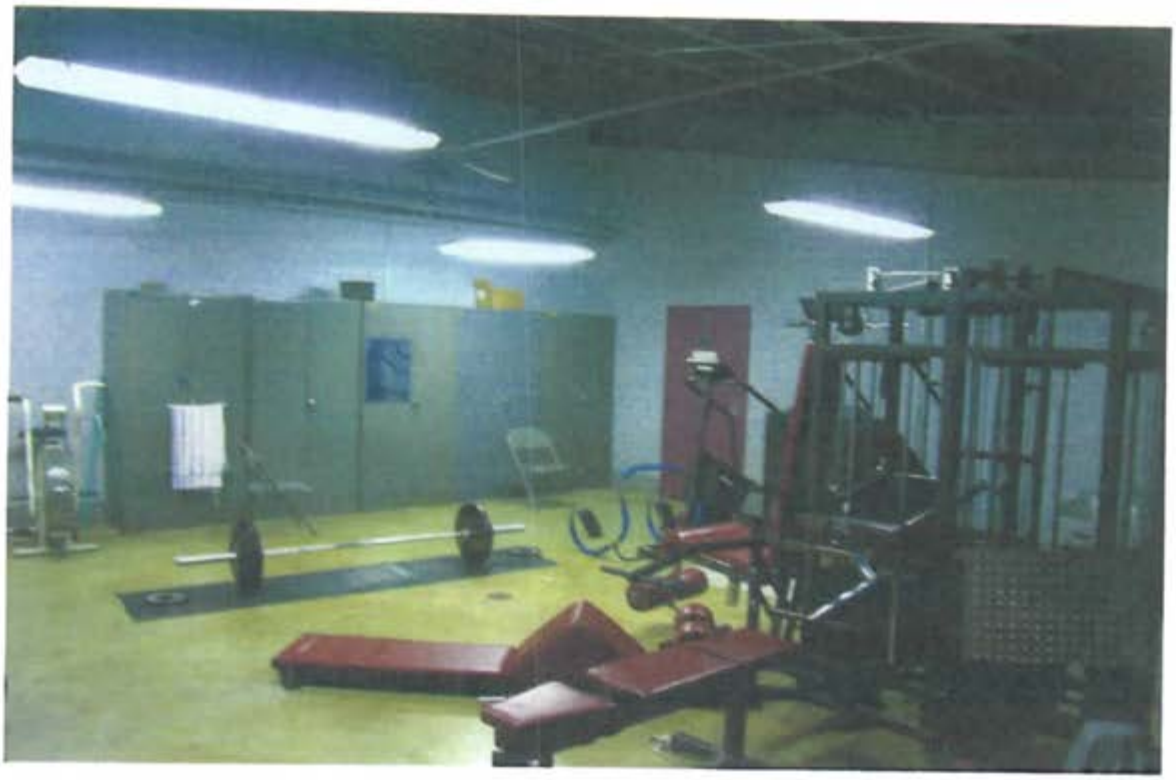


Photo #9: Exercise Room.

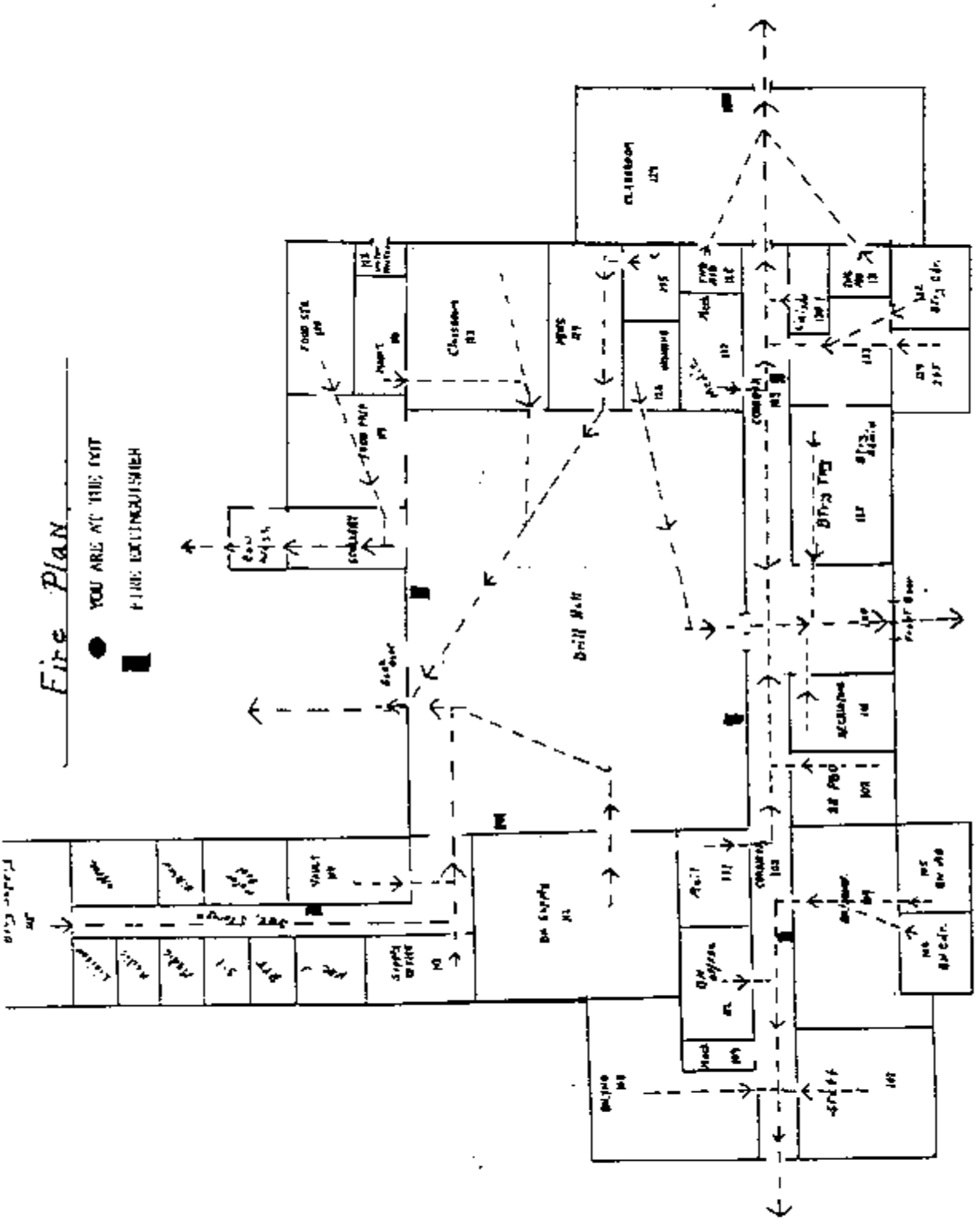
Photo #10: Typical Administration Office Area Showing Ceiling Tiles and Supply Diffusers.

Photo #11: Another Typical Office Area Showing Ceiling Tiles and Supply Diffusers.

Photo #12: Stained Ceiling Tiles in Classroom.

Photo #15: Furnaces used to Air Condition Armory. Note the Wood Common return Plenum.

Photo #16: Water Damage on the Wood Common return Plenum.


Fire Plan
YOU ARE AT THE EXIT
FIRE EXTINGUISHER

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APPENDIX B

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FOIA Requested Record #J-15-0085 (MS)
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EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4851 Email: gmillert@emsl.com

EMSL

Attn: Non-Responsive [redacted]

Fax: [redacted]

Project:

Phone: Non-Responsive [redacted]

Customer ID: TS80
Customer PO:
Received: 06/26/03 10:49 AM

EMSL Order: 200306603
EMSL Project ID:

Lead in Wipes by Flame AAS (SW 846, 7420)

Client Sample Description		Lab ID	Analyzed	Area Sampled	Lead Concentration
GWDW01	Results for these wipe samples do not meet the EPA standards for sample matrix and are not recognized under the NLLAP accreditation program	0001	7/9/03	144 in²	<10.0 µg/ft²
GWDW02		0002	7/9/03	144 in²	<10.0 µg/ft²
GWDW03		0003	7/9/03	144 in²	<10.0 µg/ft²
GWDW04		0004	7/9/03	144 in²	17.0 µg/ft²
GWDW05		0005	7/9/03	144 in²	<10.0 µg/ft²
GWDW06		0006	7/9/03	144 in²	<10.0 µg/ft²
GWDW07		0007	7/9/03	144 in²	<10.0 µg/ft²
GWDW08		0008	7/9/03	144 in²	16.0 µg/ft²
GWDW09		0009	7/9/03	144 in²	<10.0 µg/ft²
GWDW10		0010	7/9/03	144 in²	<10.0 µg/ft²
GWDW11		0011	7/9/03	144 in²	<10.0 µg/ft²

Non-Responsive [redacted]

AIHA: 100194
or other approved signatory

The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comment section.
ACCREDITATIONS: AIHA Environmental Lead Laboratory Accredited Program # 100194

Date Printed: 7/9/03 9:46:05 AM

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EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: aslegel@EMSL.com

EMSL

Attn: Non-Responsive [redacted]

Fax:

Project: MSARNG

Customer ID: TS80
Customer PO:
Received: 06/25/03 5:32 PM

EMSL Order: 040310565
EMSL Project ID:
Analysis Date: 7/5/2003

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos %	Fibrous	Non-Asbestos %	Non-Fibrous	Asbestos % Type
GWDA01 040310565-0001		Gray Non-Fibrous Heterogeneous	Dissolved			100%	Non-fibrous (other)	None Detected
GWDA02 040310565-0002		Gray Fibrous Heterogeneous	Dissolved	60% 5%	Cellulose Min. Wool	35%	Non-fibrous (other)	None Detected

Analyst(s)

Non-Responsive [redacted]

Non-Responsive [redacted]

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLM-1

1

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APPENDIX C

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200306603

EMSL ANALYTICAL — CHAIN OF CUSTODY — LEAD

Date: _____ EMSL Representative: _____ Project Name/No.: _____ P.O.#: _____

Company Name: Tommer Sciences, Inc. EMSL-Bill to: Same as

Street: 3744 Lawrence Drive Street: _____

Box #: _____ Box #: _____

City/State: Naperville, IL Zip: 60564 City/State: _____ Zip: _____

Phone Results to: (Name) _____ Telephone: [redacted]

Fax Results to: (Name) [redacted] Fax #: _____

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod. / AOAC (974.02)	Flame Atomic Absorption	0.01% ++	
Lead Wastewater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☐-ASTM List Wipe Type _____ ☐-non ASTM	SW846-7420 / HUD Appendix 14.2 Digest.	Flame Atomic Absorption	10 ug/wipe	6-10
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 [illegible] / SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead Wastewater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.3 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification Requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

^ If no box is checked, non-ASTM is assumed

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
GWDW01	—	144 m²	
GWDW02	—	"	

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/26

Received at EMSL By: _____ Date: _____

Note: Please duplicate this form and use additional sheets if necessary.

@: The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 w STLC.doc

Page 1 of 2

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2009306603

EMSL ANALYTICAL CHAIN OF CUSTODY LEAD

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
		144 in²	
GWDW03			
GWDW04			
GWDW05			
GWDW06			
GWDW07			
GWDW08			
GWDW09			
GWDW10			
GWDW11			

@ Relinquished By: (Person) K.H. Kawa Date: 6/20/03

Received at EMSL By: _____ Date: _____

Received at EMSL By: _____ Date: _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information represent on this chain of custody.

page 2 of 2

Lead Chain Nov 2001 w STLC.doc

040310565

EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

Third Party Billing: requires written authorization from third party

EMSL Rep:

Your Company Name: Tommer Sciences, Inc.
Street: 3744 Lawrence Drive
Box #:
City/State: Naperville, IL Zip: 60564

EMSL-Bill to: Same
Street:
Box #:
City/State: Zip:

Phone Results to: Non-Responsive [redacted]
Name:
Telephone #:
Project Name/Number: MSARNG

Fax Results to: Non-Responsive [redacted]
Name:
Fax #:
Purchase Order #:

MATRIX			TURNAROUND			
☐ Air	☐ Floor Tile	☐ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☑ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☐ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☑ 144+ hours	6-10 Days		

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon - Fri.), Please Refer to Price Quote

PCM - Air
☐ NIOSH 7400
☐ OSHA
☐ Other:

TEM AIR
☐ AHERA
☐ NIOSH 7402
☐ EPA Level II

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

TEM WATER
☐ Wastewater
☐ Drinking Water EPA 100.1
☐ Water - NY Wastewater
☐ Water-NY Drinking Water

PLM - Bulk
☑ EPA 600/R-93/116
☐ EPA Point Count
☐ NY Stratified Point Count
☐ PLM NOB (Gravimetric) NY 198.1
☐ Other:

TEM BULK/misc
☐ Drop Mount (Qualitative)
☐ Chatfield
☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC / WIPE
☐ ASTM D 5755-95 quantitative method

XRD
☐ Asbestos
☐ Silica

SEM Air or Bulk
☐ Qualitative
☐ Quantitative

OTHER
☐

25 PM 5:32

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)

Client Sample # (s) GWDA01 - GWDA02 Total Samples #: 2

Relinquished: Non-Responsive [redacted] Date: 6/20/03 Time:

Received: Date: Time:

1

From Lead

Non-Responsive [redacted] 7-5-03

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APPENDIX D

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May, 2018

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 47006

Installation:

Building: ARMORY

Room Number:

Unit / Organization (45): HQ 1-114 FA, Greenwood, MS

Location | Operation | Survey Date | month | day: 07

Evaluator-HNUS | Macom: XX | Submacom: NG | RAC

[redacted] Non-Responsive

DSN | Commercial | Frequency (hrs/day) | No. CIVs | No. MIL: 111 | Contractor | No. LOCs

Verification Units

Controls Present (if >6 , continue to comments)[25]: N/A

Evaluation [25 characters max]: N/A | Unit code

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters max)
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
POMOISECO	7439-92-1			Lead dust
POFGOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELEHOCK				
COLUBECR				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments

Remember to comment on problems, recommendations, and needed control items

Operation described is

Small Fire arms cleaning tasks in the drill Hall

(comments continued on attached)

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐

There is a ventilation data sheet attached to this form ☐

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APPENDIX E

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REFERENCES

1. American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23rd Edition, 1998.

2. American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

3. American National Standards Institute, Z358.1-1998. Emergency Eyewash and Shower Equipment 1998.

4. Army Regulation (AR) 11-34, The Army Respiratory Protection Program, 1990

5. Army Regulation (AR) 40-5, Preventative Medicine, 15 October 1990.

6. Army Regulation (AR) 385-10, The Army Safety Program, 23 May 1988.

7. National Fire Protection Association (NFPA) No. 30, Standard for Flammable and Combustibles Liquid Code, 1996.

8. National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.

9. NGR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

10. TB MED 503, The Army Industrial Hygiene Program, February 1985.

11. Title 29, Code Of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

12. TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

13. TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG

March 29, 2013

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted], Readiness NCO, Co F, 1-171st GSAB MEDEVAC, 364 Shop Street, Jackson, Mississippi, 39209.

Thru: Non-Responsive [redacted] DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Hawkins Field Army National Guard Armory, Jackson,, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1998.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. USAEHA TG-141, January 2007, Guidelines for Air Sampling and Bulk sample Collection. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and follow up industrial hygiene sampling at the MS ARNG Hawkins Field Army National Guard Armory, Jackson,, Mississippi.

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ARNG-CSG

March 29, 2013

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Hawkins Field Army National Guard Armory, Jackson,, Mississippi.

3. Findings: The information that follows is based on the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed.

.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. .

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2013. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2014 IHIP.

b. Have all HHIM data entered into the HHIM computer module.

c. Use the report to help in correcting all deficiencies noted.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the State Occupational Health Office for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of AR ARNG. If additional information is needed please contact [redacted] Non-Responsive Regional Industrial Hygienist, [redacted] Non-Responsive [redacted] Non-Responsive

[redacted] Non-Responsive

CF:

[redacted] Non-Responsive State Safety Manager, 1410 Riverside Dr, Jackson, MS 39202.

[redacted] State Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Encl

as

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INDUSTRIAL HYGIENE INITIAL BASELINE SURVEY

MISSISSIPPI NATIONAL GUARD

HAWKINS FIELD ARMORY
364 SHOP STREET
JACKSON, MS 39209

DATE: JANUARY 25, 2013

PREPARED BY

Non-Responsive, IH TECHNOLOGIST

Non-Responsive
7043 STONECREEK DRIVE
DOUGLASVILLE, GA 30134

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ATTACHMENTS:

Facility Diagram
HHIM Sheet
ALS Environmental, Analytical Chain of Custody Form
ALS Environmental, Analytical Test Results

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MEMORANDUM FOR: Mississippi National Guard, Attn: Non-Responsive Readiness NCO, Co F, 1-171st GSAB MEDEVAC, 364 Shop Street, Jackson, Mississippi, 39209

Subject: Industrial Hygiene Initial Baseline Survey of Hawkins Field Army National Guard Armory, Jackson, Mississippi

BACKGROUND:

Introduction:

At the request of Non-Responsive, National Guard Bureau Regional Industrial Hygiene South Office, Atlanta, GA., an initial baseline industrial hygiene survey was conducted at Hawkins Field Army National Armory, Jackson, Mississippi on January 25, 2013 as part of the Mississippi Army National Guard Occupational Health in the workplace. The point of contact for this facility was Non-Responsive Non-Responsive

Non-Responsive from Industrial Hygiene Services, Mississippi State National Guard assisted Non-Responsive from the start to the end of the survey.

Scope of Work:

The survey consisted of a general illumination survey, task lighting survey, lead wipe sampling and evaluating the condition of the building, including the airflow of the heating Ventilation and Air Conditioning (HVAC) System as it relates to indoor air quality. A review of several industrial programs, such as hazard communication, hearing conservation and personal protective equipment was also performed. A field survey form is complete on all industrial operations at the facility, and the data is contained in this report.

INSTRUMENTATION:

The following survey instrumentation was provided by or for the contractor, and was used to obtain illumination measurements, task lighting measurements. All instruments were pre-calibrated according to the manufacturer's instructions.

Instrument	Serial Number	Calibration
Extech Light Meter	Q623728	Aug 2012
Extech Light Meter	Q623736	Aug 2012

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OBSERVATION

Hawkins Army National Guard Armory is located next to AASF #1. [redacted] F Co Readiness NCO was the contact and met with and assisted the Industrial Hygiene Technologist ([redacted] by opening all the doors to the armory. Armory hours are from 0700 hrs. to 1630 hrs. Monday through Friday. SFC Peter Eargle is a technician and therefore gets PT three hours a week, Monday, Wednesday and Friday. Three units call Hawkins Armory home (1) Co A, 1-185th Aviation Battalion (2) Co D, 1-185th Battalion and Co F, 1-171 GSAB MEDEVAC. The armory is a one level brick structure with a metal roof and was built around 1972 and my opinion of the condition of the building is fair inside and out. [redacted] and his unit was deployed to Afghanistan from December 2011 and returned December 2012.

Hawkins Field Armory fulltime personnel list:

NAME	FIRST	SEX	POSITION
[redacted]			Admin Officer, Co A, 1-185th Aviation BN Training Officer, Co D, 1-185th Aviation BN Training Officer, Co F, 1-171st GSAB MEDEVAC Supply NCO, Co F, 1-171st GSAB MEDEVAC Admin NCO, Co F, 1-171st GSAB MEDEVAC Readiness NCO, Co F, 1-171st GSAB MEDEVAC Readiness NCO, Co D, 1-185th Aviation BN Supply NCO, Co , 1-185th Aviation BN Supply NCO, Co D, 1-185th Aviation BN

ADMINISTRATIVE OFFICES

There are ten offices, where personnel use computer systems, files, read, write and perform administrative tasks as necessary. Computer use occurs throughout the day. General illumination levels in the Admin offices met IES, Illuminating Engineering Society Handbook, 8th Edition requirement of 50 FC - 100 FC (Foot Candles) except for (1) Rm. #1, F Co Readiness NCO office (2) Rm. #5 D Co Readiness NCO Office (3) Rm. #8, D Co Commander and ISG office and Rm. #13, A Co Supply NCO.

Task lighting taken at computer work stations (CWS) in the following areas did not meet IES requirement of 50 FC – 100FC (1) Three CWS in Rm. #2 & & 3, F Co Training Office (2) Rm. #5, D Co Readiness Office CWS (3) Rm. #8, D Co Commander and ISG office CWS (4) Two CWS in RSP/R & R and two CWS in Rm. #13 A Co supply office.

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Room #1, F Co Readiness NCO Office

Room # 2 & 3, F Co Training Office

Room #6, A Co Training Officer Office Office

Room #7, A Co Commander and ISG

RSP/R & R

Room #9, D Co Training Office

The administrative areas, classrooms and conference area are provided with central air and heat. Ventilation for drill hall is provided by two large supply vents and two room exhaust fans and a Port-A-Cool Swamp cooler. Heat in the drill hall is provided by four hanging gas heaters. Supply storage (Old Indoor Firing Range) has no heat or air conditioning.

KITCHEN

The kitchen is made up of two separate areas (Kitchen/Cooking, Kitchen/Dishwashing). Admin area is also located in the kitchen cooking area. The kitchen is being dismantled and moved to Raymond road armory. General illumination levels in the cooking area and admin area did not meet IES requirement. General illumination levels in the dishwashing area does not meet IES requirement. Food is catered during once a month drill weekend.

Kitchen/Cooking Area

Kitchen/Dishwashing Area

Kitchen/Admin Area

RESTROOMS

There are two restrooms, one for men and one for women. The male restroom has five stalls, five urinals and six sinks and a community shower. The female rest room has a shower, two stalls and two sinks. The general illumination in both restrooms does not meet IES requirements of 10 FC – 20 FC.

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DRILL HALL

The drill hall four gas heaters hanging from the ceiling that provide warmth during the cold months and the two large electrical exhaust fans along with the three small supply vents (one over F Co supply entrance door and two over A Co & D Co supply entrance door) that provide comfort ventilation during the warmer months. Two parts cleaning vats are located at the front of the drill hall and is used for arms cleaning. Also, located in the Drill hall are lockers and three flammable storage cabinets. Four lead wipe samples were collected from the painted walls and the samples were sent to ALS Environmental, Cincinnati, Ohio for analysis and the results came back ND (Not Detected at the Reporting Limit). See attached chain of custody report and sample analysis report for more details of the lead swipe sampling. General illumination levels measured met IES requirement of 50 FC – 100 FC.

Drill Hall

Drill Hall

SUPPLY

Three units have supply rooms in the armory and they are Co A, 1-185, Co D, 1-185 and Co F, 1-171 supply. A Co and D Co supply share same supply storage, each with a storage cage. SSG Joseph Billips, A Co Supply NCO said the ceiling leaks both in supply room and in the D Co storage cage area. . SSG Billups informed me that a problem exist with the heating and ventilation supplied to the office, the system does not provide enough warm air in the colder months and not enough cool air in the hotter months. The breaker switch in the junction box often trips and leaves his office without any comfort ventilation.

SSG Douglas Martin, F Co Supply NCO was not present during the survey. General illumination levels met IES minimum requirement. The supply storage acoustic ceiling tiles closer to the entrance are buckled or missing. According to SFC Eargle when the exhaust fans in the drill hall are turned-on the supply air vent over F Co supply door automatically opens and the suction pulls on the ceiling tiles inside.

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A Co & D Co Supply

A Co & D Co Supply

A Co Supply Office

F Co Supply

F Co Supply

F Co Supply Office

STORAGE AREA (OLD INDOOR FIRING RANGE)

The old indoor firing range located at the back of the armory is now the caged storage area for all the units. The main entrance is located in the Drill Hall and there is a roll-up door outside that can be used to bring in bulk items. General illumination levels are provided by eight light fixtures (four fluorescent bulbs each) did not meet IES minimum requirement. All storage cages were locked and due to the limited wall and floor space only nine samples could be collected and sent to ALS Environmental, Cincinnati, Ohio for lead analysis. Analysis results came back with all samples positive for lead dust. See Table 2(Lead Wipe Sample Analysis) for analytical results.

Units Storage Area (Old IFR)

MOTOR POOL

Motor Pool has a security fence around it and is kept closed during duty hours Monday through Friday and gate opened only if needed and during drill weekend.

Motor Pool

Motor Pool

HAZMAT STORAGE FACILITY

Stored in the hazmat storage facility are the following, new oil (15W40), anti-freeze, gear oil, lube oil and hydraulic fluid. The flammable storage cabinets in the drill contained can spray paint and flammable cleaning supplies. The inspection of the units found it in compliance.

MATERIAL SAFETY DATA SHEETS

The material safety data sheets are kept in a binder that's located in the drill hall next to the parts cleaning vats. The binder was found in good condition; however, there were no table of content or index listing.

MSDS Master Binder in Drill Hall

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FINDINGS

A. Administrative Offices

1. General illumination levels measured in the following administrative offices did not meet IES requirement of 50 FC – 100 FC (1) Rm. #1, F Co Readiness NCO (2) Rm. #5, D Co Readiness NCO (3) Rm. #8, D Co Commander & ISG and Rm. #13, A Co Supply Office.
2. Task lighting taken at computer work stations (CWS) in the following administrative areas did not meet IES requirement of 50 FC – 100 FC (1) Rm. #2 & 3, F Co Training three CWS (2) Rm. #5, D Co Readiness NCO CWS (3) Rm. #8, D Co Commander & ISG CWS (4) RSP/R&R CWS two CWS and Rm. #13 A Co Supply NCO two CWS.
3. Removed water stained ceiling tile with insulation showing in Rm. # 2 & 3 F Co training office.

B. Kitchen

1. General illumination levels measured in kitchen/cooking area, kitchen/dishwashing area and kitchen/admin area does not meet IES requirement of 50 FC – 100 FC.
2. Kitchen is being dismantled and moved to Raymond road armory.

C. Restrooms – General illumination levels in the male and female restroom does not meet IES minimum requirement.

D. Drill Hall

1. Two parts cleaning vats located in the drill hall is used for arms cleaning.
2. Four lead wipe samples collected in drill hall and sent to laboratory in Cincinnati, Ohio for analysis and the results came back ND (Not Detected at the Reporting Limit)
3. Four flammable storage cabinets are located in drill hall
4. General illumination levels met IES requirement of 50 FC – 100 FC.

E. Supply

1. A Co & D Co supply share the same supply storage room.
    a. The roof leaks when it rains.
    b. D Co supply cage roof leaks when it rains.
    c. General illumination levels does not meet IES minimum requirement for active storage.
    d. A problem exists with the heating and cooling system provided to A Co supply office; it does not provide enough warm air during cold months and not enough cool air during hot months.

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e. The breaker switch in the junction box often trips and leaves his office without any comfort ventilation.

2. F Co supply NCO was not available at the time of survey.
   a. General illumination levels met IES requirement of 50 FC – 100 FC.
   b. The supply storage acoustic ceiling tiles closer to the entrance are buckled or missing. According to SFC Eargle when the exhaust fans in the drill hall is turned-on the supply air vent over F Co supply door automatically opens and the created suction pulls on the ceiling tiles in side.
   c. The floor has so much clutter in spots when walking you has to be careful not to trip.

F. Storage Cage Area (Old Indoor Firing Range)

1. General illumination levels met IES minimum requirement for inactive storage.
2. Nine lead wipe samples were collected and sent to a laboratory in Cincinnati, Ohio for analysis and all came back positive but well below the National Guards Standard for lead.

G. Motor Pool - Completely enclosed with a high security fence and gate kept closed and only opened during guard weekends or if needed.

H. HazMat storage facility inspected and found to be in compliance.

I. MSDS

1. The MSDS Binder located in drill hall next to parts cleaning vats.
2. Binder has no table of contents or index listing.
3. Binder was found in good condition.

4. A total of three portable first aid kits are located throughout the automotive service bays and facility. They were inspected and found in good order.

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TABLE 1A (General Illumination Levels)

Location	Range in Foot Candles (FC)	Average FC	IES Standard in FC
Rm. 1, F Co Readiness NCO	16 – 65	45	50 – 100
Rm. 2 & 3, F Co Training office	19 – 133	33	50 - 100
Rm. 4, F Co Training	31 – 120	83	50 - 100
Rm. 5, D Co Readiness NCO	2 – 33	9	50 – 100
Rm. 6 A Co Admin Officer	19 – 117	78	50 – 100
Rm. 7 A Co Commander & ISG	20 – 123	75	50 – 100
Rm. 8 D Co Commander & ISG	16 – 69	47	50 – 100
Rm. 9 D Co Training Officer	20 – 148	85	50 – 100
Rm. 10 Conference Room	36 – 71	50	50 – 100
Rm. 11 D Co Supply NCO	49 – 77	60	50 - 100
Rm. 12 F Co Supply	9 – 121	77	20 – 50
Rm. 13 A Co & D Co Supply	8 – 28	15	20 – 50
Rm. 13 A Co Supply Office	24 – 56	38	50 – 100
Green Classroom	18 – 138	65	50 – 100
Red Classroom	50 – 56	53	50 – 100
RSP/RR	57 – 83	68	50 – 100
Male Restroom	4 – 10	6	10 – 20
Female Restroom	1 – 3	2	10 – 20
Kitchen/Cooking Area	1 – 88	46	50 – 100
Kitchen/Dishwashing Area	7 – 49	26	50 - 100
Kitchen/Admin	1 – 88	46	50 – 100
Drill Hall	35 – 70	57	50 - 100

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TABLE 1B (Task Troubled Areas at Work Stations)

Location	Average FC	IES Standard
F Co Training Computer Workstation (CWS) #1	40	50 – 100
F Co Training CWS #2	19	50 - 100
F Co Training CWS #3	23	50 – 100
D Co readiness NCO CWS	2	50 – 100
D CO Commander & ISG CWS	28	50 - 100
RSP/RR CWS #1	22	50 – 100
RSP/RR CWS #2	13	50 – 100
A Co Supply NCO CWS #1	28	50 – 100
A Co Supply NCO CWS RCASS	22	50 - 100

TABLE 2 (LEAD WIPE SAMPLES)

Worker	Sample Number	Analysis Request	Laboratory Results	National Guard Standard
Storage Cage Area (Old Indoor Firing Range) Side Wall	LWS20130125-01	Lead Dust	2.9 µg/ft²	200 µg/ft²
" " Front wall	LWS20130125-02	Lead Dust	4.7 µgft²	200 µg/ft²
" " Floor Rear	LWS20130125-03	Lead Dust	92 µg/ft²	200 µg/ft²
" " Floor 10ft	LWS20130125-04	Lead Dust	21 µg/ft²	200 µg/ft²
" " Floor 20ft	LWS20130125-05	Lead Dust	35 µgft²	200 µg/ft²
" " Floor 30ft	LWS20130125-06	Lead Dust	43 µg/ft²	200 µg/ft²
" " Floor 40 ft.	Lws20130125-08	Lead Dust	38 µgft²	200 µg/ft²
" " Floor 50 ft.	LWS20130125-09	Lead Dust	29 µg/ft²	200 µg/ft²

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TABLE 2 (LEAD WIPE SAMPLES)

Worker	Sample Number	Analysis Request	Laboratory Results	National Guard Standard
Storage Cage Area (Old Indoor Firing Range Floor 60ft	LWS20130125-10	Lead Dust	27 µg/ft²	200 µg/ft²
Drill Hall Wall Exit Door	LWS20130125-11	Lead Dust	ND	200 µg/ft²
" " Female Restroom	LWS20130125-12	Lead Dust	ND	200 µg/ft²
" " Boiler Room	LWS20130125-13	Lead Dust	ND	200 µg/ft²
" " Parts Cleaning Vats	LWS20130125-14	Lead Dust	ND	200 µg/ft²

TECHNICAL ASSISTANCE

POC for further assistance concerning this evaluation is Non-Responsive [redacted]

Non-Responsive [redacted]

APPENDIX A, Lead Wipe Sample Location

LWS20130125-01 Side Wall Storage Cages (Old IFR)

Front WallLWS20130125-02 Storage Cages (Old IFR)

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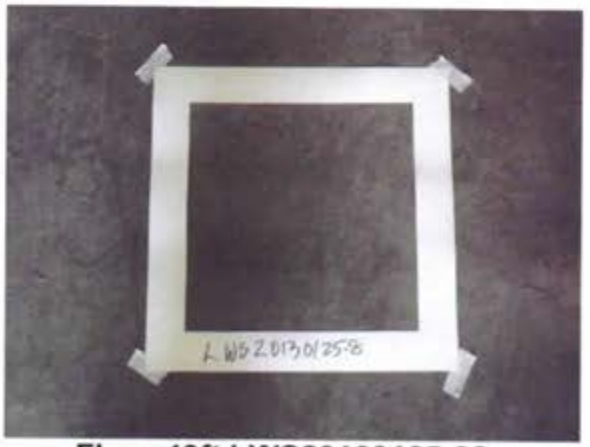
APPENDIX A, Lead Wipe Sample Location

Floor Rear LWS20130125-03
Storage Cages (Old IFR)

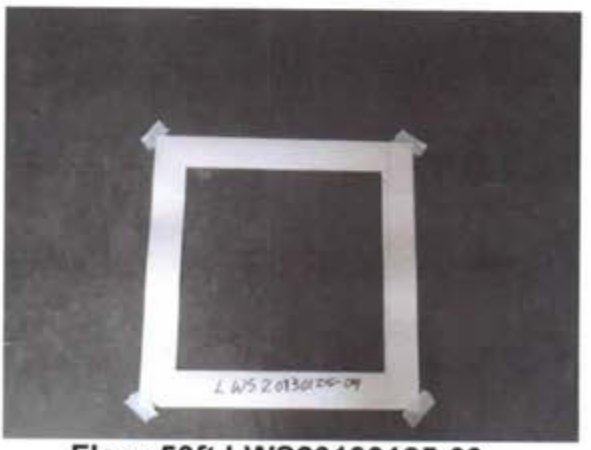
Floor 10ft LWS20130125-04
Storage Cages (Old IFR)

Floor 20ft LWS20130125-05
Storage Cages (Old IFR)

Floor 30ft LWS20130125-06
Storage Cages (Old IFR)

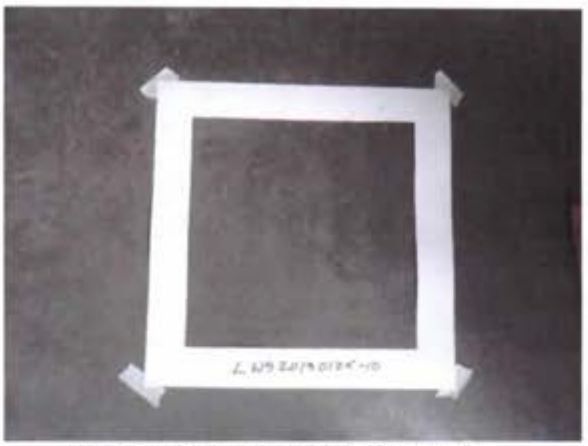


Floor 40ft LWS20130125-08
Storage Cages (Old IFR)



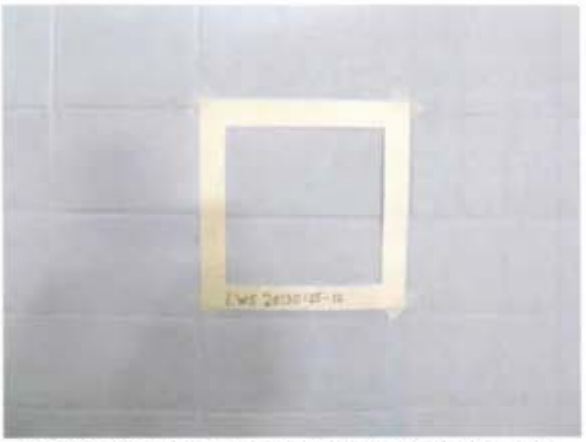
Floor 50ft LWS20130125-09
Storage Cages (Old IFR)

APPENDIX A, Lead Wipe Sample Location



Floor 60ft LWS20130125-10
Storage Cages (Old IFR)

Exit Door LWS20130125-11
Drill Hall



Female Restroom LWS20130125-12
Drill Hall

Boiler Room LWS20130125-13
Drill Hall

Between Parts Cleaning Vat
LWS20130125-14 Drill Hall

APPENDIX B, Problem Area of Hawkins Field Armory

Conference Room
Loose Smoke Detector

A Co & D Co Supply Storage
Leaky Roof

F Co Training Office
Water Stained Insulation

D Co Supply Cage
Leaky Roof

Conference Room

Green Classroom

APPENDIX C, Pictures of Hawkins Field Armory

Red Classroom

POV Parking Lot

Supply Air Vents Drill Hall

Hanging Heater Drill Hall

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May, 2018

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Recommendations

A. Administrative offices

1. A work order should be submitted through proper channels to have general illumination levels upgraded in all admin offices that did not meet the Illuminating Engineering Society (IES) minimum requirement. (Safety RAC IVC)
2. Supplemental desk lamps should be obtained through proper channels to provide supplemental task lighting for all administrative areas that did not meet IES requirement. (Health RAC IIIC)
3. A work order should be submitted through proper channels to have someone from engineering to inspect the ceiling above the water stained tiles in F Co Training office to determine whether a pipe or roof is leaking and repair or replace what's broken.

B. Kitchen - A work order should be submitted through proper channels to have general illumination levels upgraded to meet the Illuminating Engineering Society (IES) minimum requirement. (Safety RAC IVC)

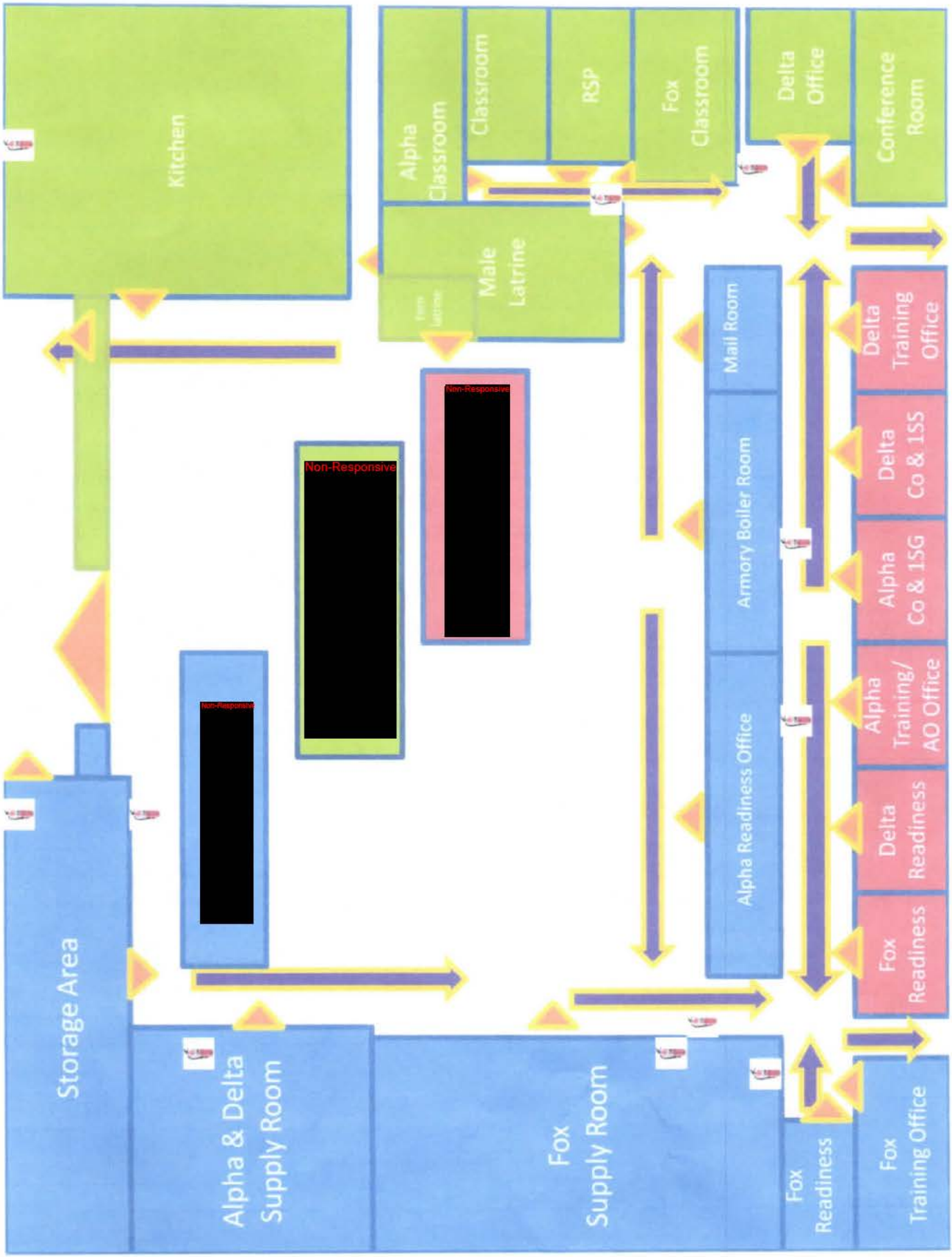
C. Restrooms - A work order should be submitted through proper channels to have general illumination levels in both restrooms upgraded to meet the Illuminating Engineering Society (IES) minimum requirement. (Safety RAC IVC)

D. Meeting Hall - The parts cleaner vat should be removed from drill hall along with the flammable storage cabinets. The drill hall is a meeting place for drill weekend warriors that should not be subjected to being exposed to solvents used to clean arms.

E. Supply

1. A work request should be submitted through proper channels to have someone from engineering to inspect the roof above A Co & D Co supply room and D Co supply cage for holes in the roof and determine if can be repaired or whether it should be replaced. (Safety RAC IVC)
2. A work order should be submitted through proper channels to have general illumination levels upgraded to meet the Illuminating Engineering Society (IES) minimum requirement for active storage. (Safety RAC IVC)
3. A work request should be submitted through proper channels to have someone from engineering to come and inspect the in the ac/heating system providing comfort ventilation to your shop is adequate and if so what's causing the breaker in the junction to trip and fix it. (Safety RAC IVC)
4. The false acoustic tile ceiling in F Co supply should be removed, with no ceiling tiles the supply vent when drawn open by drill hall exhaust fans have only air to pull from the room.
5. The clutter on the floor in supply should be immediately removed to prevent anyone from tripping over.

F. MSDS – Recommend a table of content or an index listing be placed in the beginning of the MSDS binder to make it easier to locate individual MSDS sheets.


Kitchen
Alpha Classroom
Classroom
RSP
Fox Classroom
Delta Office
Conference Room
Male Latrine
Mail Room
Armory Boiler Room
Alpha Readiness Office
Delta Training Office
Delta Co & 1SS
Alpha Co & 1SG
Alpha Training/ AO Office
Delta Readiness
Fox Readiness
Storage Area
Alpha & Delta Supply Room
Fox Supply Room
Fox Readiness
Fox Training Office
Non-Responsive
Non-Responsive
Non-Responsive
Non-Responsive

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ANALYTICAL REQUEST FORM

☑ **REGULAR** Status

☐ **RUSH** Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 1-24-2013 Purchase Order No.

Company Name [redacted]

Address 7043 STONECREEK DRIVE

DOUGLASVILLE GEORGIA 30134

City

Person to C[redacted]

Email Addre[redacted]

Telephone ([redacted]

Fax Telephone ( ) NA

Billing Address (if different)

NGB ARMY NATIONAL GUARD

510 PLAZA DRIVE, SUITE 1530

COLLEGE PARK, GA 30349

Quote No.

Sampling Site Jackson Armory (Hankinistown), MS

Date/Time of Collection 1-25-2013

1301494

Laboratory Use Only	Client Sample Number	Media Type	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
-01	LWS20130125-01			LEAD, IN PAINT WIPE SAMPLE - 1'X1' grid
-02	LWS20130125-02			
-03	LWS20130125-03			
-04	LWS20130125-04			
-05	LWS20130125-05			
-06	LWS20130125-06			
-07	LWS20130125-08			
-08	LWS20130125-09			
-09	LWS20130125-10			
-10	LWS20130125-11			
-11	LWS20130125-12			
-12	LWS20130125-13			
-13	LWS20130125-14			

CHAIN OF CUSTODY

Relinquished by: (Signature)	Date / Time	Received by (Signature)	Date / Time
[redacted]	1-24-2013	[redacted]	1/31/13 11:27
[redacted]	Date / Time	[redacted]	Date / Time

Std. mail

ALS ENVIRONMENTAL 4388 Glendale Milford Road / Cincinnati, OH 45242 · 800-458-1493 or 513-733-5336 / Fax: 513-733-5347

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ALS Environmental

06-Feb-2013

Non-Responsive
[redacted]
7043 Stonecreek Drive
Douglasville, GA 30134

Tel: Non-Responsive
Fax: [redacted]

Re: Jackson Armory (Hawkinsfield), MS

Work Order: **1301494**

Dear William,

ALS Environmental received 13 samples on 31-Jan-2013 11:27 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Non-Responsive
[redacted]

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May, 2018

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ALS Environmental

Date: 06-Feb-13

Client: Non-Responsive
Project: Jackson Armory (Hawkinsfield), MS
Work Order: 1301494

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1301494-01	LWS20130125-01	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-02	LWS20130125-02	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-03	LWS20130125-03	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-04	LWS20130125-04	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-05	LWS20130125-05	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-06	LWS20130125-06	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-07	LWS20130125-08	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-08	LWS20130125-09	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-09	LWS20130125-10	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-10	LWS20130125-11	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-11	LWS20130125-12	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-12	LWS20130125-13	Wipe		1/25/2013	1/31/2013 11:27	☐
1301494-13	LWS20130125-14	Wipe		1/25/2013	1/31/2013 11:27	☐

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ALS Environmental *Date: 06-Feb-13*

Client: Non-Responsive
Project: Jackson Armory (Hawkinsfield), MS
Work Order: 1301494

Case Narrative

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

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ALS Environmental

Date: *06-Feb-13*

Client: Non-Responsive

Project: Jackson Armory (Hawkinsfield), MS

Work Order: 1301494

Analytical Results

Lab ID: 1301494-01A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-01 **Matrix:** WIPE

Analyses

LEAD BY ICP		Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 02:11		Reporting Limit		
	µg/sample	µg/sample	ug/ft2	
Lead	2.9	2.0	2.9	

Lab ID: 1301494-02A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-02 **Matrix:** WIPE

Analyses

LEAD BY ICP		Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 02:30		Reporting Limit		
	µg/sample	µg/sample	ug/ft2	
Lead	4.7	2.0	4.7	

Lab ID: 1301494-03A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-03 **Matrix:** WIPE

Analyses

LEAD BY ICP		Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 02:36		Reporting Limit		
	µg/sample	µg/sample	ug/ft2	
Lead	92	2.0	92	

Lab ID: 1301494-04A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-04 **Matrix:** WIPE

Analyses

LEAD BY ICP		Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 02:43		Reporting Limit		
	µg/sample	µg/sample	ug/ft2	
Lead	21	2.0	21	

Note:

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ALS Environmental

Date: *06-Feb-13*

Client: Non-Responsive

Project: Jackson Armory (Hawkinsfield), MS

Work Order: 1301494

Analytical Results

Lab ID: 1301494-05A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-05 **Matrix:** WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 02:49			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	35	2.0	35

Lab ID: 1301494-06A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-06 **Matrix:** WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 02:55			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	43	2.0	43

Lab ID: 1301494-07A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-08 **Matrix:** WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:02			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	38	2.0	38

Lab ID: 1301494-08A **Collection Date:** 1/25/2013
Client Sample ID: LWS20130125-09 **Matrix:** WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:08			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	29	2.0	29

Note:

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ALS Environmental

Date: *06-Feb-13*

Client: Non-Responsive
Project: Jackson Armory (Hawkinsfield), MS

Work Order: 1301494

Analytical Results

Lab ID: 1301494-09A
Client Sample ID: LWS20130125-10
Collection Date: 1/25/2013
Matrix: WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:14			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	27	2.0	27

Lab ID: 1301494-10A
Client Sample ID: LWS20130125-11
Collection Date: 1/25/2013
Matrix: WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:21			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	ND	2.0	<2.0

Lab ID: 1301494-11A
Client Sample ID: LWS20130125-12
Collection Date: 1/25/2013
Matrix: WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:27			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	ND	2.0	<2.0

Lab ID: 1301494-12A
Client Sample ID: LWS20130125-13
Collection Date: 1/25/2013
Matrix: WIPE

Analyses

LEAD BY ICP	Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:46			
	µg/sample	Reporting Limit µg/sample	ug/ft2
Lead	ND	2.0	<2.0

Note:

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ALS Environmental

Date: *06-Feb-13*

Client: Non-Responsive

Project: Jackson Armory (Hawkinsfield), MS

Work Order: 1301494

Analytical Results

Lab ID: 1301494-13A

Collection Date: 1/25/2013

Client Sample ID: LWS20130125-14

Matrix: WIPE

Analyses

LEAD BY ICP		Method: SW6010B	Area 1 ft2	Analyst: VAW
Date Analyzed: 2/1/2013 03:52		Reporting Limit		
	µg/sample	µg/sample	ug/ft2	
Lead	ND	2.0	<2.0	

Note:

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ALS Environmental

Date: 06-Feb-13

Client: Non-Responsive

Work Order: 1301494

Project: Jackson Armory (Hawkinsfield), MS

QC BATCH REPORT

Batch ID: **15210** Instrument ID: **ICP2** Method: **SW6010B**

MBLK Sample ID: **mblk-15210-15210** Units: **µg/sample** Analysis Date: **2/1/2013 01:45 AM**

Client ID: Run ID: **ICP2_130201A** SeqNo: **562175** Prep Date: **1/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	ND	2.0								

LCS Sample ID: **lcs-15210-15210** Units: **µg/sample** Analysis Date: **2/1/2013 01:58 AM**

Client ID: Run ID: **ICP2_130201A** SeqNo: **562177** Prep Date: **1/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4175	2.0	4490	0	93	80-120	0			

LCSD Sample ID: **lcsd-15210-15210** Units: **µg/sample** Analysis Date: **2/1/2013 02:04 AM**

Client ID: Run ID: **ICP2_130201A** SeqNo: **562178** Prep Date: **1/31/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4182	2.0	4490	0	93.1	80-120	4175	0.168	20	

The following samples were analyzed in this batch:

1301494-01a	1301494-02a	1301494-03a
1301494-04a	1301494-05a	1301494-06a
1301494-07a	1301494-08a	1301494-09a
1301494-10a	1301494-11a	1301494-12a
1301494-13a		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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ALS Environmental

Date: 06-Feb-13

Client: Non-Responsive
Project: Jackson Armory (Hawkinsfield), MS
WorkOrder: 1301494

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/sample	

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ALS Environmental

Sample Receipt Checklist

Client Name: Non-Responsive

Date/Time Received: 31-Jan-13 11:27

Work Order: [redacted]

Received by: SJW

Checklist completed by: Steve Wilcox (eSignature) 31-Jan-13 (Date)

Reviewed by: Non-Responsive (Date) 04-Feb-13

Matrices:

Carrier name: Std US Mail

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) 20 October 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Armory Supervisor, A Company, 2/198th Combined Arms BN, Hernando, Mississippi 38632.

Thru: Non-Responsive, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Hernando Armory, Hernando, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Hernando Armory, Hernando, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

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SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Hernando Armory, Hernando, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, Non-Responsive, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:

Non-Responsive State Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..

te Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL.

as

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OSHEA II
Industrial Hygiene Consulting

Mississippi Army National Guard

Hernando Armory
3003 McCracken Road
Hernando, Mississippi

OSHEA II *Industrial Hygiene Consulting * 5035 Ancilla Street * Hope Mills, NC 28348
Phone: 910.578.4461 * Fax: 910.424.0434

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MEMORANDUM FOR: Mississippi Army National Guard: ATTN: Non-Responsive
Armory Supervisor, A Company, 2/198th Combined Arms BN, Hernando, Mississippi 38632

SUBJECT: Baseline Industrial Hygiene Health Hazard Information Module (HHIM) Survey of A Co. 2/198th Combined Arms Battalion, 3003 McCracken Rd. Hernando, Mississippi 38632

October 10, 2011

1. REFERENCES

a. Title 29 Code of Federal Regulations (CFR) part 1910, Occupational Safety and Health Administration (OSHA).

b. Army Regulation 385-10, The Army Safety Program, 29 February 2000.

c. Army Regulation 11-34, The Army Respiratory Protection Program, 15 February 1990

d. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000

e. Industrial Ventilation, 25th Edition, The American Conference of Governmental Industrial Hygienist (ACGIH), Cincinnati, Ohio.

f. National Guard Regulation 385-10, Army National Guard Safety and Occupational Health Program 20 December 1989

g. IES Lighting Handbook, Application Volume 2000, Illumination and Engineering Society of North America.

h. DA PAM 40-501, Hearing Conservation Program, 10 December 1998

i. Technical Bulletin (TB MED) 503, 1 February 1985, The Army Industrial Hygiene Program.

j. Army Regulation (AR) 40-5, Preventive Medicine, 22 July 2005

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2 .**GENERAL:** At the request of Non-Responsive, Regional Industrial Hygienist, National Guard Bureau South Atlanta, Georgia, a Health Hazard Information Module Baseline Survey was performed at A Company, 2/198th Combined Arms Battalion (CAB), Hernando, Mississippi. The purpose of this survey was to evaluate health hazards, existing controls in the work site to perform a baseline survey in accordance with references 1a through 1j and collect bulk samples.

3. **FINDINGS:**

a. *Armory Site Description*: The armory is occupied by Alphas Company. There are three full time individuals who perform administrative duties. The armory was originally constructed in 1972. It was completely remodeled and the employees had been in the armory for approximately two weeks as of this survey. The armory contains four offices/ administrative areas, three class rooms, weight room, one small combined kitchen/mess hall, supply room, and secured weapons room. This facility has not had nor does now contain a firing range. The facility is look new inside. There was no evidence of some any water damage in the facility. There was no ceiling or floor tile found to be friable throughout the armory.

The facility had been newly tiled and painted. It was stated that it had been expanded to include a new air handling system. Three offices are located on the left side of the foyer. There is new lighting through the armory. The facility was very clean. The latrines were expanded to make them handicap assessable. The facility looks like it was just built.

Administrative Areas: Personnel perform administrative duties that consist of reading, handling and generating paper work. Employees use computers, generate and file paperwork. They co-ordinate training and answer phones.

The shop has three class rooms that are used for annual training. They perform training for their unit only.

Latrine and shower

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The newly renovated bathrooms had been tiled with black and white colored tiles. New commodes and new privacy doors had also been added to the décor.

The male latrine had been renovated with new urinals, sinks and commodes also.

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The kitchen is located to right off of the drill hall floor between one of the class rooms and the latrines.

A state of the art new fresh air handling system had been installed in the armory and the climate can be controlled by a computer. Each office can be separately controlled for comfort. It also alerts personnel when it is time to change the air filters. Fresh air in- takes are located along the walls of the drill hall.

Mitsubishi Electric controlled air handling system

a. Material Safety Data Sheets (MSDS) were available and provided for hazardous materials used at this facility. HAZCOM training had been performed.

b. Hearing Conservation Program: All employees are enrolled in the installation's Hearing Conservation Program and receive annual audiograms.

c. Weapons are never cleaned at the armory. They will be going to the firing range and the weapons will be cleaned on sight. The contents of the vault is displayed in the picture That follows. No wipe sampling was performed.

Weapons vault

Supply

d. Illumination: Illumination levels were recorded in all administrative areas, classrooms, conference rooms and supply areas throughout the Armory. See chart below for specific location of measurements. Other locations can be found behind Enclosure 1.

Illumination levels

Location	***Reading in Foot Candles***	***IES Standard***
Supervisor's Office	34.4-----56.1	50-100 Foot candles
Administrative Room	50.5-----80.5	50-100 Foot candles
Classroom 1 Classroom 2 Classroom 3	86.1----106.3 117.2---129.5 91.2-----101.3	50-100 Foot candles
Drill Hall	55.1-- ---98.5	50-100 Foot candles
Break Room	26.9------61.8	50-100 Foot candles
Orderly Room	37.1-----46.5	50-100 Foot candles
Supply Room	34.5-----47.8	50-100 Foot candles

The majority of readings are at the recommended IES lighting standard of 50 to 100 foot candles.

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4. Technical Assistance:

For further assistance concerning this survey, you may contact Non-Responsive NGB Regional Industrial Hygienist at Non-Responsive

Non-Responsive

Industrial Hygienist

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RECOMMENDATIONS

a. Hearing Conservation Program. Continue with annual audiometric testing for relevant personnel in accordance with reference 1h. RAC 2

b. Hazardous communication or HAZCOM refresher training. Continue with annual HACOM training. Dated and signed records should be maintained of all HAZCOM training administered. RAC 3

d. Based on the limited, short duration, nature, of contact cleaners, and solvents used at this armory, there is no need to perform atmospheric monitoring during weapons cleaning if windows and doors are open to circulate air during weapons cleaning.

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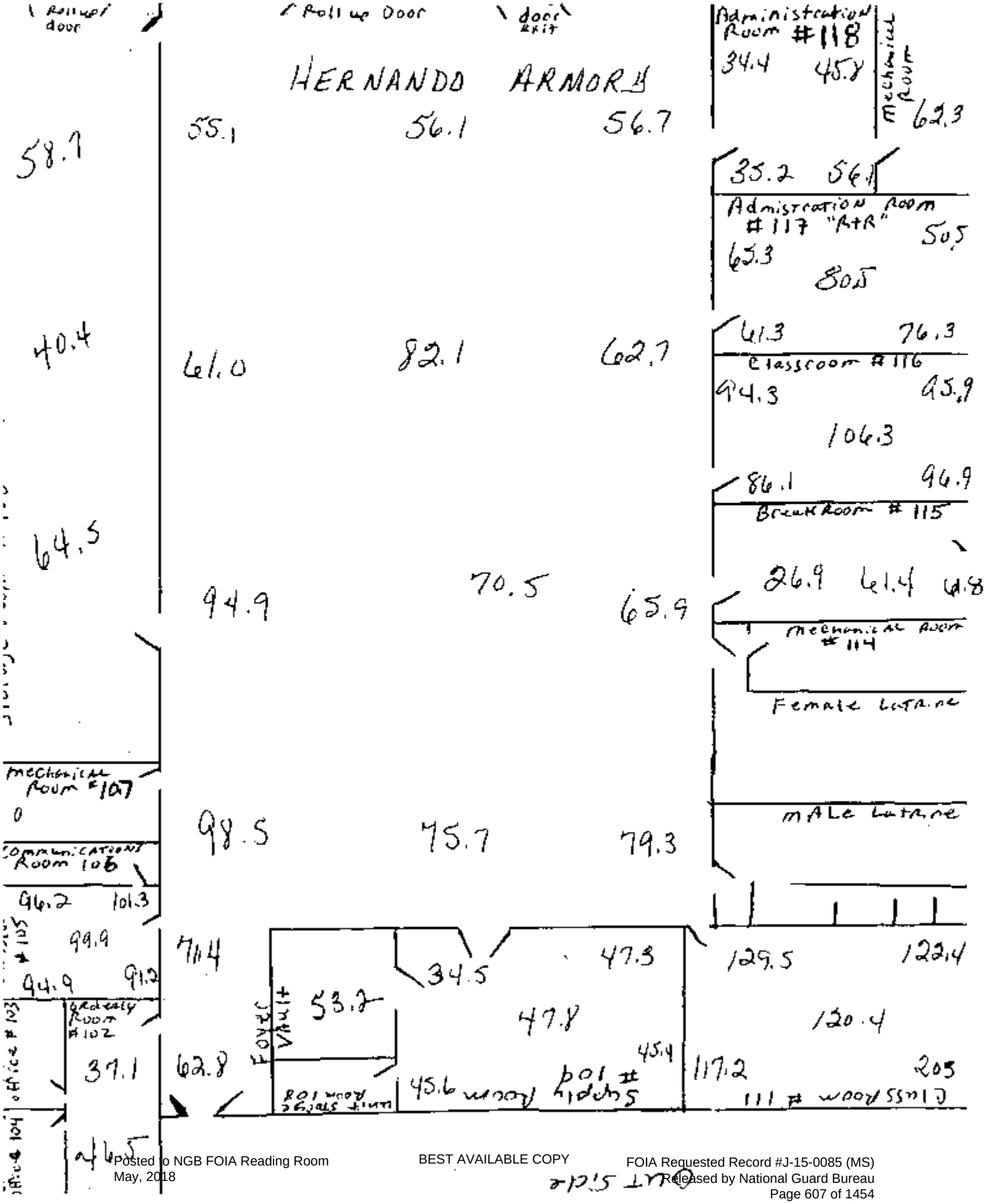

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Hazardous Material Inventory

Enclosure No. 2

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HAZAROOUS MATERIAL INVENTORY

ACILITY NAME: CoA 2-198th CAB
OCATION Elam Cab
VENTORY DATE:

STORAGE AREA: Drill Hall

PAGE 1 OF 2 PAGES

IL NAME (OM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
nulti-Purpose Spray Lubricant	NSN		X					CN		2							
enetrating Oil	NSN		X					CN		2							
carburetor Cleaner	NSN		X					CN		1							
tarting Fluid	NSN		X					CN		3							
pray Paint Blue	8010-01 359-7246		X					CN		5							
ray Paint Blue	8010-01 331-6119		X					CN		5							
ray Paint White	8010-01 331-6106		X					CN		4							

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

ILITY NAME: CoA 2-198th

STORAGE AREA: Drill Hall

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HAZARDOUS MATERIAL INVENTORY

ACILITY NAME: Co A 2-198th STORAGE AREA: Drill Hall PAGE 2 OF 2 PAGES

OCATION Flam Cab

INVENTORY DATE:

IL NAME (ON MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Spray Paint Tan	NSN		X					CN		2							
Spray Paint Black		8010-00 616-9143	X					CN		1							
Spray Paint Flat Black		8010-01 331-6108	X					CN		1							
Spray Paint Gloss Red		8010-01 331-6109	X					CN		8							
Paint Red	NSN		X					GL		3							
Glue Adhesive	NSN		X					GL		1							
Paint Yellow	NSN		X					GL		1							
Varnish Wood Finish	NSN		X					QT		2							
Concrete Paint	NSN		X					GL		9							

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

ILITY NAME: CoA 2-198th STORAGE AREA: Drill Hall PAGE 2 OF 2 PAGES

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: Co A 2/148th CAB
LOCATION HELNAN OO
INVENTORY DATE: 15 SEP 10

STORAGE AREA: HAZMAT BLDG
Motor Pool

PAGE 1 OF 2 PAGES

ITEM NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ	TRI
15/40 LUBRICATING OIL	9150-01-438-6076							BT	365	11	12	12					
ED & GRASS KILLER	NSN							BT	365	1	4	4					
T & FREEZE	6850-01-464-9125								365	5	5	5					
DRAULIC OIL	9150-00-111-6254							GL	365	9	4	8					
TIFREEZE	6850-01-464-9137							GL	365	10	5	25					
9805 CLEANER	NSN							GL	365	10	1	10					
PLE GREEN	7930-01-342-5316							GL	365	12	12	12					
RO GRASS & WEED KILLER								GL	365	1	1	1					

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

FACILITY NAME:
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STORAGE AREA:

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: CO A 2-198 STORAGE AREA: Motor Pool PAGE 2 OF 2 PAGES

LOCATION Hazmat Bldg

INVENTORY DATE: 15 SEP 10

ITEM NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
ceckthrough	9150-00-N04-3283		X					GL	365	5.5	55	55					
rbiside	6840-01-108-9548							GL	365	5	5	5					

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

FACILITY NAME: STORAGE AREA: PAGE OF PAGES

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HAZARDOUS MATERIAL INVENTORY

ACILITY NAME: Co A2-158
OCATION Cleaning Products Cabinet
VENTORY DATE:

STORAGE AREA: Drill Hall

PAGE 1 OF 3 PAGES

IL NAME (ROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Top and Shine	NSN							BT		1							
Bleche-White	NSN							BT		1							
Clorox Bleach	NSN							QT		18							
Cleaning Compound Windshield	6850-00 926-2275							PT		3							
Glass Cleaner	7930-00 664-6910							BT		5							
Glass Cleaner	7930-01-326-8110							BT		1							
Glass Cleaner	NSN							BT		1							
Purpose Cleaner	7930-00-357-7386							BT		13							
Purpose Cleaner	7930-00-926-5287							BT		10							
Fragrant Blocks	6840-00-246-6444							BX		1							

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

ILITY NAME: AGO FORM 416R
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ACILITY NAME: CoA2-198 STORAGE AREA: Drill Hall PAGE 2 OF 3 PAGES

OCATION Cleaning Products Cabinet

VENTORY DATE:

IL NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
...er Mist ...r Fresh Refill	NSN							CN		14							
...pesticide	6840-01-412-4634							CN		1							
...(Insecticide)	NSN							CN		1							
...per Cleaner	NSN							CN		1							
...in Increase - Pine Oil	6840-01 5984-3129							GL		2							
...ple Green Hand Cleaner	NSN							GL		1							
...Orange Hand Cleaner	NSN							GL		1							
...per Compound	NSN							LB		12							
...ricant, Ice	2640-00-256-5596							QT		1							
...D.	9150-00-754-2595							LB		9							

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

ILITY NAME: STORAGE AREA: PAGE OF PAGES

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HAZARDOUS MATERIAL INVENTORY

ACILITY NAME: CoA2-198 STORAGE AREA: Drill Hall PAGE 3 OF 3 PAGES

OCATION Cleaning Products Cabinet

NVENTORY DATE:

IL NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
LP	9150-01-053-6688							GL		8							
LP	9150-01-059-6453							PT		1							
Apple Green	NSN							RT		8							

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

ILITY NAME: STORAGE AREA: PAGE OF PAGES

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SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

9703281

Product Name:	**Flat White**
Manufacturer MSDS.:	9703281
Manufacturer Name:	Rust-Oleum Corporation
Address:	11 Hawthorn Parkway Vernon Hills, Illinois 60061 USA
General Use:	HARD HAT/AEROSOL
Business Phone:	(847)-367-7700
Hours Of Operation:	Mon.-Fri, 8:00 AM-4:30 PM
Revision Date:	01/05/99 PREVIOUS MSDS REVISION DATE: 06/11/97
PREPARER	LJW
Product Codes:	2190 838

HMIS

HEALTH	2
FIRE	4
REACTIVITY	0
PPE	

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

9703281

Ingredient Name	CAS#	Ingredient Percent
Calcium Carbonate	1317-65-3	<20.0 % by Weight
OSHA PEL TWA:	15 mg/m3	
OSHA STEL/Ceiling:	Not Established.	
ACGIH TLV TWA:	10 mg/m3	
ACGIH STEL/Ceiling:	Not Established.	
Other Exposure Guidelines:	MEXICAN TLV-TWA: Not Established. SKIN: NO	
TOLUENE	108-88-3	<20.0 % by Weight
OSHA PEL TWA:	200 PPM	
OSHA STEL/Ceiling:	300 PPM (CEILING)	
ACGIH TLV TWA:	50 PPM	
ACGIH STEL/Ceiling:	Not Established.	
Other Exposure Guidelines:	MEXICAN TLV-TWA: Not Established. SKIN: YES	
XYLENE	1330-20-7	<20.0 % by Weight
OSHA PEL TWA:	100 PPM	
OSHA STEL/Ceiling:	Not Established.	
ACGIH TLV TWA:	100 PPM	
ACGIH STEL/Ceiling:	150 PPM (STEL)	
Other Exposure Guidelines:	MEXICAN TLV-TWA: Not Established. SKIN: NO	
Titanium Dioxide	13463-67-7	<15.0 % by Weight
OSHA PEL TWA:	15 mg/m3	
OSHA STEL/Ceiling:	Not Established.	
ACGIH TLV TWA:	10 mg/m3	
ACGIH STEL/Ceiling:	Not Established.	
Other Exposure Guidelines:	MEXICAN TLV-TWA: Not Established. SKIN: NO	

ETHYLBENZENE	100-41-4	<5.0 % by Weight
OSHA PEL TWA:	100 PPM	
OSHA STEL/Ceiling:	Not EStablished.	
ACGIH TLV TWA:	100 PPM	
ACGIH STEL/Ceiling:	125 PPM (STEL)	
Other Exposure Guidelines:	MEXICAN TLV-TWA: Not Established. SKIN: NO	

LIQUIFIED PETROLEUM GAS	68476-85-7	<25.0 % by Weight
OSHA PEL TWA:	1000 PPM	
OSHA STEL/Ceiling:	Not Established.	
ACGIH TLV TWA:	1000 PPM	
ACGIH STEL/Ceiling:	Not Established.	
Other Exposure Guidelines:	MEXICAN TLV-TWA: Not Established. SKIN: NO	

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SECTION 3 : HAZARDS IDENTIFICATION

9703281

Emergency Overview: Harmful if inhaled. Harmful if swallowed. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion.

Applies to All Ingredients:

Route of Exposure: SKIN ABSORPTION, INHALATION, EYE CONTACT.

Potential Health Effects:

Eye Contact: Causes eye irritation.

Skin Contact: Substance may cause slight skinirritation. Prolonged or repeated contact may cause skin irritation.

Inhalation: Harmful if inhaled. High gas,vapor, mist or dust concentrations may be harmful if inhaled. Avoidbreathing vapors or mists. High vapor concentrations are irritating to theeyes, nose, throat and lungs.

Ingestion: Substance may be harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

Chronic Health Effects: May cause central nervous system disorder (e.g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports haveassociated repeated and prolonged occupational overexposure to solventswith permanent brain and nervous system damage. Overexposure to xylene inlaboratory animals has been associated with liver abnormalities, kidney,lung, spleen and eye damage as well as anemia. Effects in humans haveincluded liver and cardiac abnormalities. Overexposure to toluene in laboratory animals has beenassociated with liver abnormalities, kidney, lung and spleen damage.Effects in humans have included liver and cardiac abnormalities.

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SECTION 4 : FIRST AID MEASURES

9703281

Eye Contact: Hold eyelids apart and flush with plenty of water for at lease 15 minutes. Get medical attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Inhalation: No Information.

Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

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SECTION 5 : FIRE FIGHTING MEASURES

9703281

Flash Point:	Not Applicable.
Upper Flammable or Explosive Limit:	9.5 %
Lower Flammable or Explosive Limit:	1.0 %
Auto Ignition Temperature:	Not Applicable.
Extinguishing Media:	DRY CHEMICAL, FOAM, WATER FOG.
Fire Fighting Instructions:	Evacuate area and fight fire from a safedistance.
Unusual Fire Hazards:	FLASH POINT IS LESS THAN 20 DEG. F. -EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective.Closed containers may explode when exposed to extreme heat due to buildupof steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. Closed containers may explode when exposed to extreme heat.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

9703281

Spill Cleanup Measures:	Evacuate the area, remove all sources of ignition and ventilate well. Contain spilled liquid with sand or earth. DO NOT use combustible materials such assawdust. Remove all sources of ignition, ventilate area and remove withinert absorbent and non-sparking tools. Dispose of according to local,state (provincial) and federal regulations. Do not incinerate closedcontainers.

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SECTION 7 : HANDLING and STORAGE

9703281

Handling:	Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Follow all MSDS/label precautions evenafter container is emptied because it may retain product residues. Avoidbreathing vapor or mist.
Storage:	Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 degrees F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 degrees F.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

9703281

Engineering Controls:	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achievecross-ventilation.
Skin Protection Description:	Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.
Eye/Face Protection:	Use safety eyewear designed to protect against splash of liquids.
Respiratory Protection:	A respiratory protection program that meets OSHA1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Refer to safety supervisor or industrialhygienist for further information regarding personal protective equipmentand its application.
HYGIENIC PRACTICES:	Wash thoroughly with soap and water before eating, drinking or smoking.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

9703281

Physical State/Appearance:	LIQUID.
Odor:	SOLVENT.
Physical State:	LIQUID.
pH:	@ 0.0 % : Not Applicable.
Vapor Pressure:	Not Applicable.
Vapor Density:	Is heavier than air.
Boiling Point:	-34 - 284 deg F
Freezing Point:	Not Applicable.
Solubility:	IN H2O : SLIGHT.
Specific Gravity:	0.9606
Evaporation Point:	Is slower than Ether.
Viscosity:	Not Applicable.
Odor Threshold:	Not Applicable.
Coefficient of Water/Oil Distribution:	Not Applicable.

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SECTION 10 : STABILITY and REACTIVITY

9703281

Chemical Stability:	This product is stable under normal storage conditions.
Conditions to Avoid:	Avoid temperatures above 120 degrees F. Avoid all possible sources of ignition.
Incompatibilities with Other Materials:	Incompatible with strong oxidizing agents, strong acids and strong alkalies.
Hazardous Polymerization:	Will not occur under normal conditions.
Hazardous Decomposition Products:	By open flame, carbon monoxide andcarbon dioxide.

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SECTION 11 : TOXICOLOGICAL INFORMATION

9703281

LIQUIFIED PETROLEUM GAS :

Other Toxicological Information: LD50: Not Established.
LC50: Not Established.

Calcium Carbonate :

Other Toxicological Information: LD50: None.
LC50: None.

TOLUENE :

Other Toxicological Information: LD50: RAT 5000MG/KG
LC50: MOUSE 5320PPM 8HR

XYLENE :

Other Toxicological Information: LD50: RAT 4300MG/KG
LC50: RAT 5000PPM 4HR

Titanium Dioxide :

Other Toxicological Information. LD50: 24000mg/kg Rats
LC50: 6820mg/m3 Rats

ETHYLBENZENE :

Other Toxicological Information: LD50: RAT 3500MG/KG
LC50: Not Applicable.

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SECTION 12 : ECOLOGICAL INFORMATION

9703281

Ecological Paragraph:	Product is a mixture of listed components.

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SECTION 13 : DISPOSAL CONSIDERATIONS

9703281

Waste Disposal:	Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

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SECTION 14 : TRANSPORT INFORMATION

9703281

DOT Shipping Name:	AEROSOLS HAZARD SUBCLASS: 1 RESP. GUIDE PAGE: 126
DOT UN Number:	UN1950
DOT Hazard Class:	2

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SECTION 15 : REGULATORY INFORMATION

9703281

Applies to all ingredients:

TSCA 12(b): Export Notification	This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: No information is available.
Section 312 Hazard Category:	This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
Acute:	Yes
Chronic:	Yes
Fire:	Yes
Section 313 Toxic Release Form:	This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: CHEMICAL NAME: TOLUENE CAS NUMBER: 108883 WT/WT %: IS LESS THAN 20.0 % CHEMICAL NAME: XYLENE CAS NUMBER: 1330207 WT/WT %: IS LESS THAN 20.0 % CHEMICAL NAME: ETHYLBENZENE CAS NUMBER: 100414 WT/WT %: IS LESS THAN 5.0 %
OSHA 29 CFR 1200:	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
State:	NEW JERSEY RIGHT-TO-KNOW: The following materials are non-hazardous, but are among the top five components in this product: No non-hazardous materials are among the top five ingredients. PENNSYLVANIA RIGHT-TO-KNOW: The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME: ALKYD RESIN
CAS NUMBER: 68552410

CALIFORNIA PROPOSITION 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:
CHEMICAL NAME: TOLUENE
CAS NUMBER: 108883

Canada WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

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SECTION 16 : ADDITIONAL INFORMATION

9703281

HMIS:

Health Hazard:	2*
Fire Hazard:	4
Reactivity:	0

MSDS Revision Date: 01/05/98
PREVIOUS MSDS REVISION DATE: 06/11/97

REASON FOR REVISION: TRANSPORTATION INFORMATION.

MSDS Author: LJW

Disclaimer:

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

LEGEND:
N.A. : Not Applicable.
N.E. : Not Established.
N.D. : Not Determined.

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View Section : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION (N/A)

NFPA

4
3 0

HMIS

HEALTH	2
FIRE	4
REACTIVITY	0
PPE	

Product Name: **Eco-Sure Industrial Enamel Aerosol Paint Flat Black**

Manufacturer Name: LHB Industries

Address: 8833 Fleischer Place
Berkeley, MO 63134

Business Phone: (314) 423-4333

CHEMTREC Numbers:

For emergencies in the US, call CHEMTREC: 800-424-9300

Revision Date: February 16, 2007
REVISION NUMBER: 04

Specification: A-A-2787 Type I, Flat Black 37038
CAGE Code: OFTT5
Contract Number: GS-10F-40786

Product Codes: 0672-F-899, LHB Part Number: 0674-39D, National Stock Number: 8010-01-331-6108

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS (N/A)

Ingredient Name	CAS#	Ingredient Percent
Propane OSHA PEL TWA: ACGIH TLV TWA:	74-98-6 1000 ppm 2500 ppm Vapor Pressure (mm Hg 20 deg C): 760	18% by Weight
Butane OSHA PEL TWA: ACGIH TLV TWA:	106-97-8 800 ppm 800 ppm Vapor Pressure (mm Hg 20 deg C): 760	7% by Weight
Isobutane OSHA PEL TWA: ACGIH TLV TWA:	75-28-5 Not Established Not Established Vapor Pressure (mm Hg 20 deg C): 760	5% by Weight
Acetone OSHA PEL TWA: ACGIH TLV TWA: ACGIH STEL/Ceiling:	67-64-1 1000 ppm 500 ppm STEL: 750 ppm Vapor Pressure (mm Hg 20 deg C): 180	30% by Weight
Butyl Acetate OSHA PEL TWA: OSHA STEL/Ceiling: ACGIH TLV TWA:	123-86-4 150 ppm STEL: 200 ppm 150 ppm	7% by Weight

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May, 2018

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ACGIH STEL/Ceiling:	STEL: 200 ppm Vapor Pressure (mm Hg 20 deg C): 10

VM&P Naphtha	64742-89-8	9% by Weight
OSHA PEL TWA:	300 ppm	
ACGIH TLV TWA:	300 ppm	
ACGIH STEL/Ceiling:	STEL: 400 ppm	
	Vapor Pressure (mm Hg 20 deg C): 15 @ 37.7 deg C	
Mineral Spirits	8052-41-3	< 2% by Weight
OSHA PEL TWA:	100 ppm	
ACGIH TLV TWA:	100 ppm	
	Vapor Pressure (mm Hg 20 deg C): 2.0	
##100 Solvent	64742-95-6	< 2% by Weight
OSHA PEL TWA:	Not Established	
ACGIH TLV TWA	Not Established	
	Vapor Pressure (mm Hg 20 deg C): 4.4	
Carbon Black	1333-86-4	< 2% by Weight
OSHA PEL TWA:	3.5 mg/m3	
ACGIH TLV TWA:	3.5 mg/m3	
	Vapor Pressure (mm Hg 20 deg C): Not Applicable	

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SECTION 3 : HAZARDS IDENTIFICATION

(N/A)

Applies to All Ingredients:

Route of Exposure:	Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.
Potential Health Effects:	EFFECTS OF OVEREXPOSURE: Irritation of eyes, skin and upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Carcinogenicity:	For complete discussion of toxicology data refer to Section 11.
Signs/Symptoms:	Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.
Aggravation of Pre-Existing Conditions:	None generally recognized.

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SECTION 4 : FIRST AID MEASURES

: (N/A)

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention after flushing.
Skin Contact:	Remove contaminated clothing and launder before reuse. Wash with soap and water.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Ingestion:	DO NOT INDUCE VOMITING. Give nothing by mouth. Get immediate medical attention.

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SECTION 5 : FIRE FIGHTING MEASURES

: (N/A)

Explosion:	SPECIAL EXPOSURE HAZARDS: Do not expose to temperatures over 120 deg F. Keep away from heat, sparks and flame. Containers may explode when exposed to extreme heat. Applications to hot surfaces require special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Flash Point:	< 0 deg F
Upper Flammable or Explosive Limit:	12.8
Lower Flammable or Explosive Limit:	1.1
Extinguishing Media:	Carbon Dioxide, Dry Chemicals, Foam
Protective Equipment:	Water may be used to keep fire-exposed containers cool. Fire fighters should wear full protective clothing, including self-contained breathing equipment.
NFPA	
	Health: 3
	Flammability:4
	Reactivity:0
	Other:
	HMIS CLASSIFICATION: HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

: (N/A)

Personal Precautions:	Avoid Inhalation. Use good ventilation. Read entire label before using and follow all label directions.
Environmental Precautions:	ENVIRONMENTAL PRECAUTIONARY PROCEDURE FOR CLEANING/ABSORPTION: Dispose of in accordance with applicable Federal, State & Local regulations. Remove ignition sources and work with non-sparking tools. Use oil absorbent materials.

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SECTION 7 : HANDLING and STORAGE

: (N/A)

Handling:	Keep out of reach of children. Keep away from heat sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated • Do Not Smoke - Extinguish all flames, pilot lights, and heaters • Turn off stoves, electric tools and appliances, and any other source of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120 deg F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of reach of children.
Storage:	STORAGE: CATEGORY - NFPA 30B Level 2 Aerosol Do not store where temperatures may exceed 120 deg F (48.9 deg C).

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

: (N/A)

Engineering Controls:	Local Exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.
Skin Protection Description:	Impervious clothes to protect skin. Wash promptly when skin becomes contaminated.

Hand Protection Description:	GLOVES: None required for normal application or aerosol products where a minimal skin contact is expected. For long or repeated contact wear chemical resistant gloves.
Eye/Face Protection:	Safety glasses with side shields or chemical goggles.
Respiratory Protection:	If personal exposure cannot be controlled to below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust that may be generated from this product, underlying paint, or the abrasive.
Other Protective:	Use only with adequate ventilation. Avoid contact with skin and eyes. Wash hands after using. This coating may contain materials classified as nuisance particulates (listed as "Dust" in Section 2) that may be present at hazardous levels only during sanding or abrading of the dried coating.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES : (N/A)

Color:	Black 37038
Odor:	Solvent/Paint
Physical State:	Liquid/Gas
Vapor Density:	(AIR=1): > 1 (Heavier than Air)
Solubility:	IN WATER: Insoluble
Specific Gravity:	0.754
Density:	6.28 lb/gal
Evaporation Point:	Slower than ether
Percent Volatile:	(BY VOL.): 88.7
Volatile Organic Compound Content:	49.0% by wt, 4.32 lb/gal

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SECTION 10 : STABILITY and REACTIVITY : (N/A)

Chemical Stability:	Stable
Conditions to Avoid:	Do not expose to heat or store at temperature above 120 deg F
Incompatibilities with Other Materials:	MATERIAL TO AVOID: Strong acids, Oxidizing agents.
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Carbon Monoxide, and Carbon Dioxide

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SECTION 11 : TOXICOLOGICAL INFORMATION : (N/A)

Applies to all ingredients:

Chronic Effects:	Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects of the liver, urinary and blood forming systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Other Toxicological Information:	TOXICOLOGY DATA (listed if available)

Acetone :

Acute Health Effects:	LD 50 RAT 4HR 5800 mg/kg

Butyl Acetate :

Acute Health Effects:	LD 50 RAT 4HR 13100 mg/kg
Inhalation Effects:	LC 50 RAT 4HR 2000 ppm

Carbon Black :

Carcinogenicity: Carbon Black and Cobalt are classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data. However, there is insufficient evidence in humans for its carcinogenicity.

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SECTION 12 : ECOLOGICAL INFORMATION

: (N/A)

Ecological Paragraph: No data available

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SECTION 13 : DISPOSAL CONSIDERATIONS

: (N/A)

Waste Disposal: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

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SECTION 14 : TRANSPORT INFORMATION

: (N/A)

DOT Shipping Information:	U.S. DOT: 49 CFR 172.101 Hazardous Materials Table
DOT Shipping Name:	Consumer Commodity
DOT Hazard Class:	OR DIVISION: ORM-D
DOT Identification Number:	None
DOT Packing Group:	None
IATA:	IATA: List of Dangerous Goods
IATA Shipping Name:	Aerosols, flammable
IATA Hazard Class:	OR DIVISION: 2.1
IATA UN Number:	UN1950

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SECTION 15 : REGULATORY INFORMATION

: (N/A)

Applies to all ingredients:

TSCA 8(b): Inventory Status:	All chemicals in this product are listed, or are exempt from listing on the TSCA Inventory.
Section 302:	SARA SECTION 302: None
Section 313 Toxic Release Form:	SARA 313 CHEMICALS: Cobalt compounds/7440-48-4
RCRA 261.33 Code:	This material is classified as a hazardous waste.
Section 112(r): Clean Air Act	HAZARDOUS AIR POLLUTANTS (Clean Air Act, Section 112(b)) HAPS (lbs/gal): 0.00 lbs/gal HAPS (lbs/gal of Solids): 0.00 lbs/gal HAPS (lbs/lb of Solids): 0.00 lbs/lb
State:	CALIFORNIA PROPOSITION 65: May contain small amounts. VOC CONTENT: 49.0% by wt, 4.32 lb/gal MAXIMUM INCREMENTAL REACTIVITY: 0.64

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SECTION 16 : ADDITIONAL INFORMATION

: (N/A)

HMIS:

Health Hazard:	2
Fire Hazard:	4

Reactivity:	0
NFPA:	
Health:	3
Fire Hazard:	4
Reactivity:	0
MSDS Revision Date:	February 16, 2007 REVISION NUMBER: 04
MSDS Author:	Prepared by: Mark Epstein, R&D Manager

Disclaimer:

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

ADDITIONAL INFORMATION: This MSDS has been prepared in accordance with FED-STD-313D and meets the requirements of 29 CFR 1910.1200.

A-A-2787 Type I, Black 37038

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INSTRUMENTATION:

The following survey instrumentation was utilized to obtain noise, illumination or ventilation measurements. All equipment was used according to manufacturer/ manual recommendations. All equipment was calibrated prior to and after use.

Nomenclature	**Serial No.**
Extech Light Meter	L595339

Enclosure No. 3

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Full Time Personnel

Hernando Armory

Non-Responsive

[redacted]

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HHIM Sheets

Enclosure No. 5

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HHIMS **INDUSTRIAL HYGIENE SURVEY FORM**

ARLOC_28000 INSTALLATION_MSARNG BLDG_____ ROOM____

LOCATION	OPERATION	SURVEY DATE	EVALUATOR	MACOM
MN	ADO	YR 11 / 08/09	KJS	NG

SUPERVISOR	ORGANIZATION	RAC
Non-Responsive [redacted]	Sentobia Armory 400 Scott St. Senatobia, Mississippi 38668	3

PH NO.	COMMERICAL/DSN	FREQUENCY	# CIV #MIL	#CONTRACT # LOC
662-562-4494	x /	8 hrs/day	16 /	/

LAB HOODS	VAPOR/DEGREASERS	PAINTBOOTH	SANDBLASTING BOOTH	OPEN SURFACE
0		0	0	0

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED

PPE REQUIRED UTILIZED

GLOVES	R U	RESPIRATOR	R U	EYES/FACE	R U
ACID	__/__	AIRLINE	__/__	CHEM/SPLASH	__/__
COLD SURFACE	__/__	ABRASIVE BLASTING HOOD	__/__	FULL FACE SHIELD	__/__
HOT SURFACE	__/__	DISPOSABLE	__/__	CHEM/SAF IMPACT	x / x
NBC AGENTS	__/__	FULL FACE AIR PURFYING	__/__	SAFETY IMPACT	__/__
OIL	__/__	½ FACE AIR PURFYING	__/__	WELDING HELMET	__/__
SOLVENTS	__/__	POWERED AIR PURFYING	__/__	WELDING GOGGLES	__/__
SURGICAL GLOVES	__/__	¼ FACE AIR PURIFYING	__/__	LASER EYE PROTECT	__/__
OTHER_____	__/__	SCBA	__/__	OTHER_____	__/__

EARS/ HEARING	R U	BODY	R U	HEAD AND FEET	R U
CANAL CAPS	__/__	APRONS	__/__	COLD WEATHER BT&HAT	__/__
>85-108 STDY EPLG	x / x	COLD WEATHER CL	__/__	HARD HAT	__/__
" "HLMT/PLG	__/__	COVERALLS	__/__	IMPERMEABLE BOOTS	__/__
" " MUFF ONLY	__/__	FULL BODY SUIT	__/__	SAFETY SHOE CONDUCT	__/__
108-118 MUFF/PLG	__/__	HEAT REFLECTIVE	__/__	SAFETY NON CONDUCT	x / x
118 OR> MUFF/PLG	__/__	VEST/SUIT	__/__	OTHER _____	__/__
W/ TIME LIMIT		SAFETY BELT/ HARNESS	__/__		
OTHER_____	__/__	SPECIAL PURPOSE CLO	__/__	OTHER BDU	x / x

	CAS CODE	PAC	EPC	HAZARD DESCRIPTION
PONOISECO	P0eyestresx	3	0	Eye stress
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMMHAZ				
POLIFTING				
POSHARPOBJE				
POELSHOCK				
COLUBEOIL				

DESCRIBED OPERATION

Administrative duties performed. Phone answering, processing/generating, filing/tracking paperwork.

PERSONNEL LIST ATTACHED

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: [redacted] Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: [redacted], DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for re-application of lead sealant and Status of Lead Sampling, Indoor Firing Range, Hernando, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty one sampled were collected and submitted for testing of Total Lead. Of those twenty one samples, two blanks were included. One sample returned by Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia contained greater than 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 19 samples were collected, three from each surface area for submittal to AES in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Normally this area would be re decontaminated with a sample above 200 µg/ft² before application of the sealant, but sealant was applied and the areas were not sampled before its application therefore a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04. Before re-applying the encapsulation product to protect the area from external re entry of lead dust ensure all ventilation openings of the previous ventilation system are covered by at least a 5 mil plastic sealed around the edges to make it as air tight as possible. Re-sample the area after re-applying the sealant following manufacturer's recommendation.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to re-apply lead sealant in this area, meeting the above requirements is granted.

[redacted]

Regional Industrial Hygienist

CF: NGB-ARS-IHSE
[redacted]ate Safety Manager, 2497 N. West Street, Jackson, MS 39216.

June 7, 2010

MEMORANDUM FOR: State Safety Office, ATTN: NGMS-S [redacted], 2497 N West Street, Jackson, MS 39216-2497

SUBJECT: Industrial Hygiene Lead Wipe Survey at a Future Storage Area (Old Indoor Firing Range), Troop A, 98th CAV, 3003 McCracken Road, Hernando, Mississippi 38632

1. REFERENCES: See Attachment 3

2. BACKGROUND: At the request of [redacted], National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Lead Wipe Survey was performed at the Hernando Armory Old Indoor Firing Range, Army National Guard, Hernando, Mississippi on May 19, 2010. [redacted], DBA: Minckler & Associates performed the survey. [redacted] from the Facility Maintenance Office in Jackson opened the area and provided ladders. The ladders were either too small or too tall too reach the ceiling exhaust ducts. The large ladder couldn't maneuver to the exhaust ducts and the small ladder wasn't high enough to reach the exhaust ducts. The purpose of the survey was to perform lead wipe samples and verify that the old firing range has been cleared to store equipment and supplies. Lead resistant paint had been applied to the walls and epoxy coating to the floor.

3. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples.

   a) Ghost Lead Dust Wipes, Manufactured: August 28th,2008, Expiration: 02/12

4. Findings:

   a) Nineteen lead dust wipe samples were taken, using 12 inch by 12 inch templates. Nine samples were above the federal standard of 40µg/ft². One sample was above the Army National Guard standard of 200µg/ft². Pictures of the lead sample wipes were taken (see attachment 2, photo's M01510 to M03310). The sample submission and the analytical lead results were enclosed in the report (see attachment 1). The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
East End Floor	M01510	131 µg/ft²
Middle of Floor	M01610	71 µg/ft²
West End Floor	M01710	124 µg/ft²
West End Wall Louver	M01810	46 µg/ft²

Note 1: µg/ft² refers to micrograms or one millionth of a gram per square foot
Note 2: BRL means below recorded level

Location:	Surveyor's Field No:	Results:
West Middle Wall	M01910	BRL
West Top Wall	M02010	BRL
North Lower End Wall	M02110	BRL
North Middle Wall	M02210	BRL
North Top Wall	M02310	109 μg/ft²
East End Trap Door Floor	M02410	423 μg/ft²
East End Lower Wall	M02510	43 μg/ft²
East Middle Wall	M02610	BRL
East Top Wall	M02710	57 μg/ft²
South Lower Wall	M02810	60 μg/ft²
South Middle Wall	M02910	BRL
South Top Wall	M03010	BRL
West Ceiling	M03110	BRL
Middle Ceiling	M03210	BRL
East Ceiling	M03310	BRL

Note 1: μg/ft² refers to micrograms or one millionth of a gram per square foot
Note 2: BRL means below recorded level

5. Reference: Toxic Substance Control Act (TSCA) 403: See attachment 3

6. Lead Cleanup Procedures: See Attachment 4

7. RECOMMENDATIONS: See Attachment 5

8. TECHNICAL ASSISTANCE::

POC for further assistance concerning this evaluation is [redacted]

[redacted]

CF:
State Safety Office
ATTN: NGMS-S [redacted]
2497 N West Street
Jackson, MS 39216-2497

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 28, 2010

Non-Responsive
Minckler & Associates
1503 Zaiger Dr
Colorado Springs CO 80915

TEL: Non-Responsive
FAX: [redacted]

RE: Hernando Armory

Dear Non-Responsive

Order No: 1005J74

Analytical Environmental Services, Inc. received 19 samples on 5/25/2010 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]
Project Manager

3785 Presidential Parkway • Atlanta, Georgia 30340 • Tel: (770) 457-8177 • FAX: (770) 457-8188

Posted to NGB FOIA Reading Room
May, 2018

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1005J74

Date: 5/20/10 Page 1 of 2

COMPANY: MINCKLER & Associates

ADDRESS: 1503 ZAIGER DRIVE COLORADO SPRGS, CO 80915

[redacted] Non-Responsive

ANALYSIS REQUESTED: Lead wipe (12"X12")

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead wipe (12"X12")	REMARKS	No # of Containers
1	M01510	5/19/10	2:38p			O	X	East end Floor	
2	M01610	5/19/10	2:47p			O	X	Middle of Floor	
3	M01710	5/19/10	2:53p			O	X	West end Floor	
4	M01810	5/19/10	3:00p			O	X	west end Lower wall	
5	M01910	5/19/10	3:07p			O	X	West end wall	
6	M02010	5/19/10	3:15p			O	X	West end wall	
7	M02110	5/19/10	3:22p			O	X	North L end wall	
8	M02210	5/19/10	3:29p			O	X	North Middle wall	
9	M02310	5/19/10	3:45p			O	X	North Top wall	
10	M02410	5/19/10	3:55p			O	X	East End TRAP FLOOR	
11	M02510	5/19/10	4:10p			O	X	East L wall	
12	M02610	5/19/10	4:18p			O	X	East M wall	
13	M02710	5/19/10	4:31p			O	X	East T wall	
14	M02810	5/19/10	4:39p			O	X	South L wall	

PRESERVATION (See codes)

RELINQUISHED BY: [redacted] DATE/TIME: 5/25/10 10:20

RECEIVED BY: [redacted] DATE/TIME: 10:20

3:

3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: HERNANDO ARMORY
PROJECT #: M0310
SITE ADDRESS: 3003 McCracken Rd. HERNANDO, MS

[redacted] Non-Responsive

RECEIPT
Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV
CAT.

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY;
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE M[redacted]

MATRIX CODES: A - Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: 5/20/10 Page 2 of 2

COMPANY: MINCKLER & Associates
ADDRESS: same
PHONE: same
FAX: same
SAMPLED BY: same
SIGNATURE: same

ANALYSIS REQUESTED: Lead wipe (12" X 12")

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	M02910	5/19/10	4:51p			O	X	South M wall	
2	M03010	5/19/10	5:02p			O	X	South T wall	
3	M03110	5/19/10	5:21p			O	X	West ceiling	
4	M03210	5/19/10	5:43p			O	X	middle ceiling	
5	M03310	5/19/10	5:57p			O	X	East ceiling	
6	M03410	5/19/10	6:08p			O	X	Blank	
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY DATE/TIME
[redacted]
3:

RECEIVED BY DATE/TIME
Non-Responsive
5/25/10
10:20
3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: HERNANDO ARMORY
PROJECT #: M0310
SITE ADDRESS: same
SEND REPORT TO:
INVOICE TO: (IF DIFFERENT FROM ABOVE) same
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc

Date: 28-May-10

Client: Minckler & Associates
Project: Hernando Armory
Lab ID: 1005J74

Case Narrative

Sample Receiving Nonconformance:

Sample 1005J74-020A (M03410) was listed on the chain of custody, but was not received at the laboratory.

5/27/10 3:30 PM Per Tom Minckler, via phone, the lab should proceed with the analysis on the lead wipes received.

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May, 2018

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Analytical Environmental Services, Inc

Date: 28-May-10

Lab Order: 1005J74
Client: Minckler & Associates
Project: Hernando Armory
Matrix: Wipe
Date Received: 5/25/2010 10:20:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1005J74-001A	M01510	131	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-002A	M01610	71	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-003A	M01710	124	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-004A	M01810	46	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-005A	M01910	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-006A	M02010	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-007A	M02110	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-008A	M02210	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-009A	M02310	109	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-010A	M02410	432	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-011A	M02510	43	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-012A	M02610	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-013A	M02710	57	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-014A	M02810	60	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-015A	M02910	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-016A	M03010	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-017A	M03110	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-018A	M03210	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA
1005J74-019A	M03310	BRL	µg/ft²	20	1		05/19/2010	05/27/2010	TA

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte Detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

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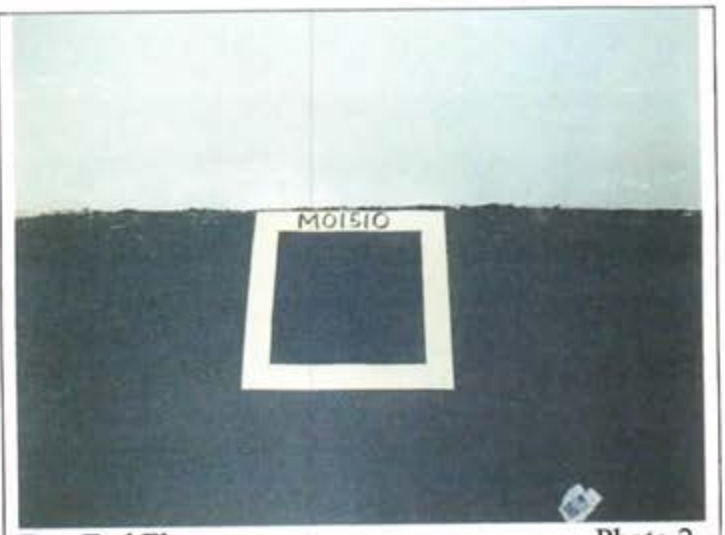
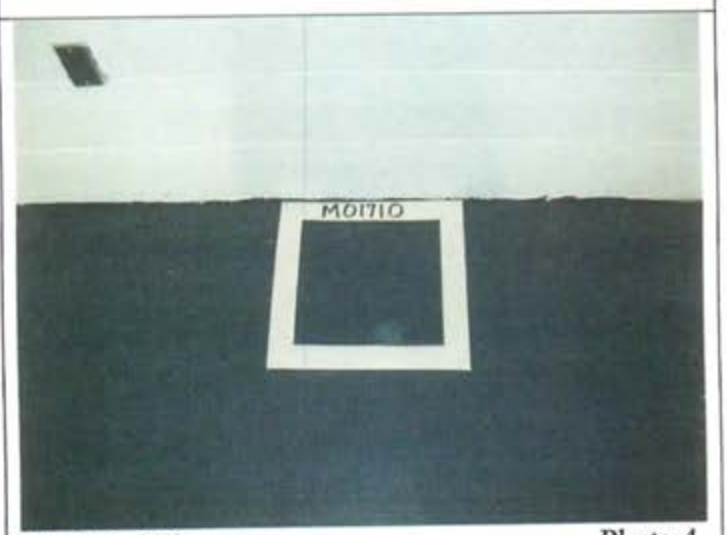
Renovated Indoor Firing Range Photo 1



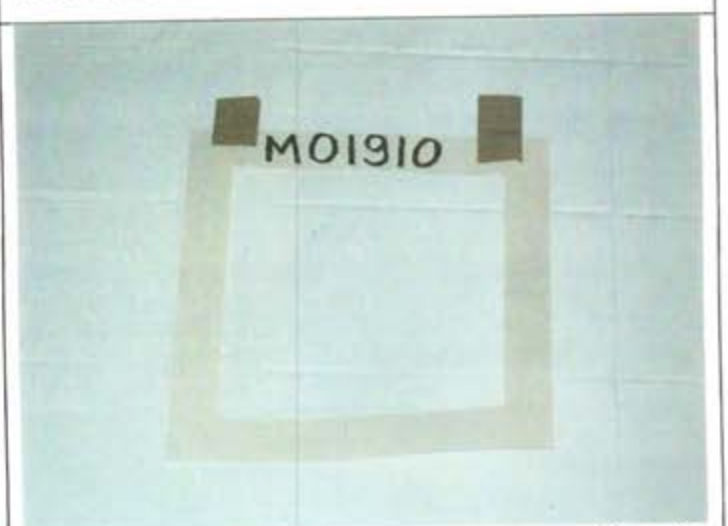
East End Floor Photo 2

Middle of Floor Photo 3



West End Floor Photo 4

West End Louver Wall Photo 5



West Middle Wall Photo 6

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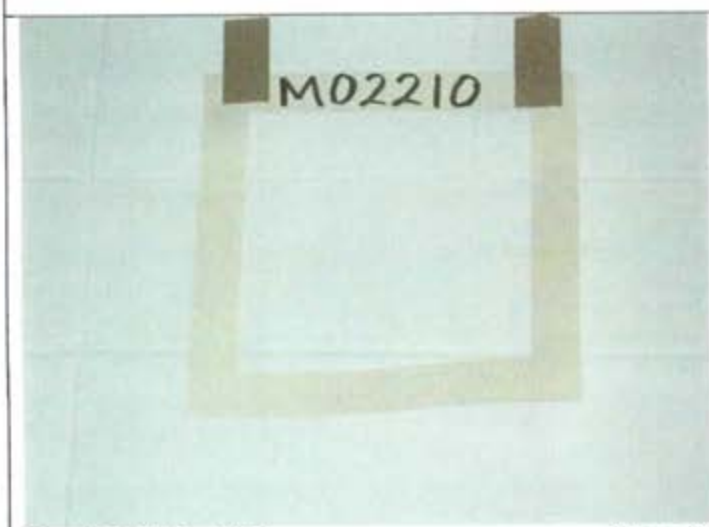
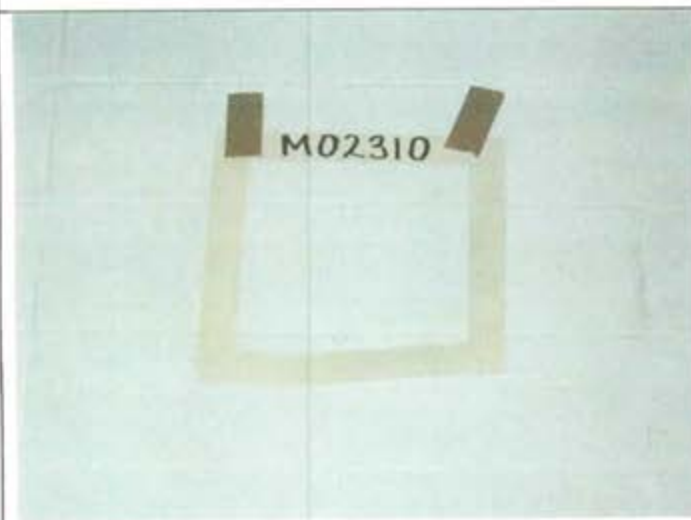
West Top End Wall Photo 7

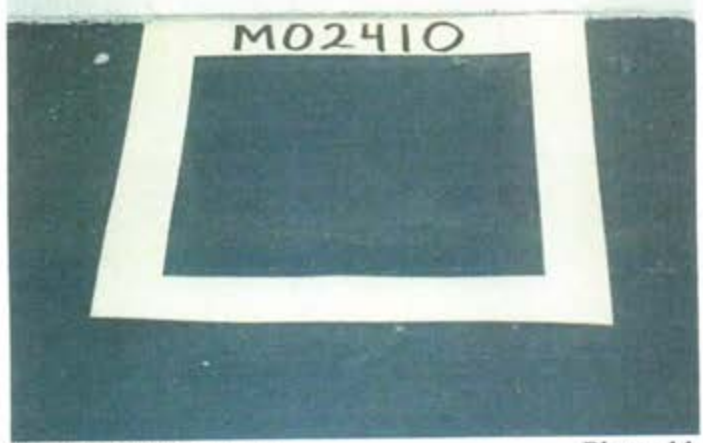
North Lower Wall Photo 8



North Middle Wall Photo 9



North Top Wall Photo 10



East End Trap Door Photo 11

East End Lower Wall Photo 12

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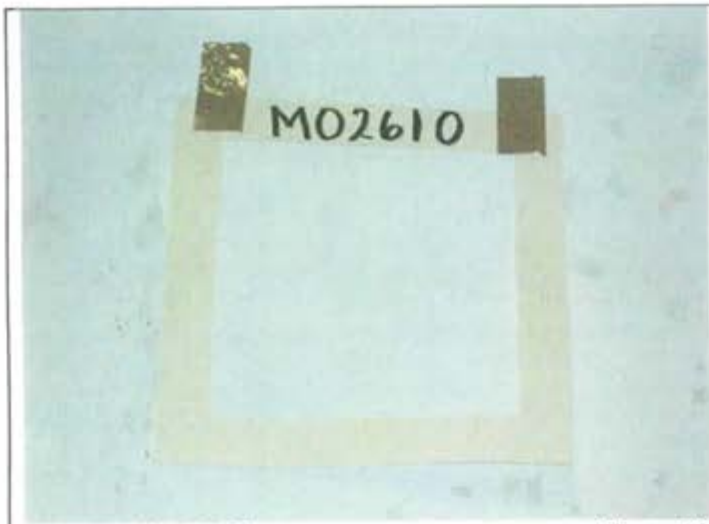
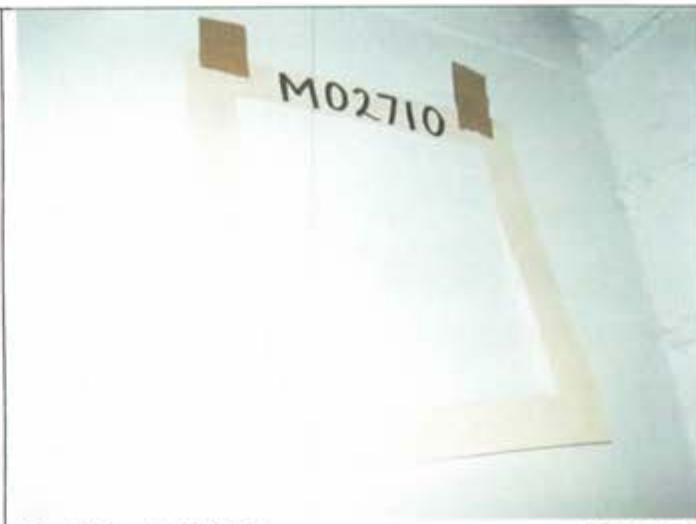


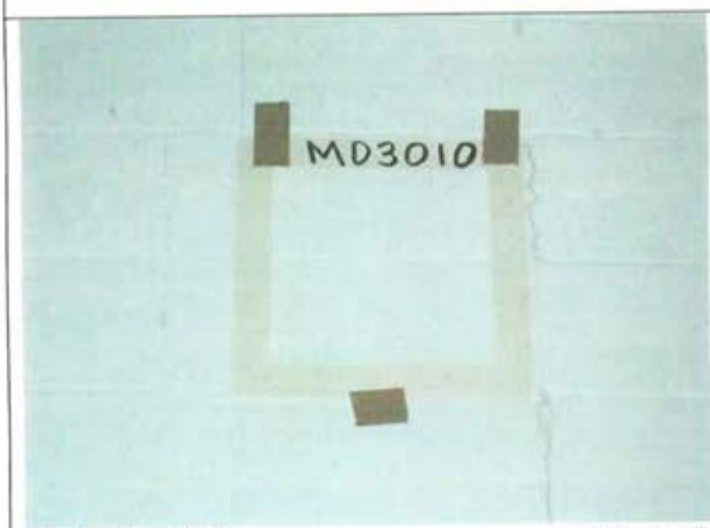
East Middle Wall Photo 13



East Top End Wall Photo 14

South Lower Wall Photo 15

South Middle Wall Photo 16



South Top Wall Photo 17

West Ceiling Photo 18

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Middle Ceiling Photo 19

East Ceiling Photo 20

Could Not Reach Exhaust Duct Photo 21

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Attachment 3

Residential Lead Hazard Standards - TSCA Section 403

You will need Adobe Reader to view some of the files on this page. See EPA's PDF page to learn more.

As part of EPA's ongoing efforts to protect children from lead poisoning, the Agency announces new standards to identify dangerous levels of lead in paint, dust and soil. These new national standards are more protective than previous EPA guidance and will, for the first time, provide home owners, school and playground administrators, childcare providers and others with standards to protect children from hazards posed by lead, including children in federally-owned housing.

Under these new standards, federal agencies, including the U.S. Department of Housing and Urban Development, as well as state, local and tribal governments, will have new uniform benchmarks on which to base remedial actions taken to safeguard children and the public from the dangers of lead. These standards will also apply to other federal lead provisions, such as EPA's real estate disclosure requirements currently in place for persons selling or renting a home or apartment. These hazard standards will also serve as general guidance for other EPA programs engaged in toxic waste cleanups. In addition, these standards will provide landlords, parents, and childcare providers with specific levels on which to make informed decisions regarding lead found in their homes, yards, or play areas.

Health problems from exposure to lead can include profound developmental and neurological impairment in children. Lead poisoning has been linked to mental retardation, poor academic performance and juvenile delinquency. Nearly one million children in America today have dangerously elevated levels of lead in their blood. Because of the potential dangers, any exposure to deteriorated lead-based paint presents a hazard.

Under the new standards, lead is considered a hazard when equal to or exceeding 40 micrograms of lead in dust per square foot on floors, 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard.

Identifying lead hazards through these standards will allow inspectors and risk assessors to assist property owners in deciding how to address problems which may include lead paint abatement, covering or removing soil or professional cleaning of lead dust.

This action appears in the January 5, 2001, Federal Register (PDF) (36 pp, 357K).

Contact the National Lead Information Center (NLIC) to speak with an information specialist.

Final Rules and Policy in Effect

- 40 CFR Part 745, Lead; Identification of Dangerous Levels of Lead; Final Rule - 1/5/2001 (PDF) (36 pp, 357K)
- Authorization Status of States and Tribes (PDF) (1 pg, 67K)
- Interpretive Guidance for the Federal Program, TSCA Sections 402/403
- Economic Analysis of Toxic Substances Control Act Section 403: Hazard Standards (PDF) (207 pp, 1MB)

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Step-by-Step Summary

Cleaning: How To Do It

1. Include step-by-step procedures for precleaning, cleaning during the job, and daily and final cleanings in project design or specifications.

2. Assign responsibilities to specific workers for cleaning and for maintaining cleaning equipment.

3. Have sufficient cleaning equipment and supplies *before* beginning work.

4. If contamination is extensive, conduct precleaning of the dwelling unit. Move or cover all furniture and other objects.

5. Conduct ongoing cleaning during the job, including regular removal of large and small debris and dust. Decontamination of all tools, equipment, and worker protection gear is required before it leaves containment areas. Electrical equipment should be wiped and high-efficiency particulate air (HEPA) vacuumed, not wetted down, to minimize electrocution hazards.

6. Schedule sufficient time (usually 30 minutes to an hour) for a complete daily cleaning, starting at the same time near the end of each workday after lead hazard control activity has ceased.

7. For final cleaning, wait at least 1 hour after active lead hazard control activity has ceased to let dust particles settle.

8. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceilings, walls, trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.

9. Wash all surfaces with a lead-specific detergent, high-phosphate detergent, or other suitable cleaning agent to dislodge any ground-in contamination, then rinse. Change the cleaning solution after every room is cleaned.

10. Repeat step 8. To meet clearance standards consistently, a HEPA vacuum, wet wash, and HEPA vacuum cycle is recommended. For interim control projects involving dust removal only, the final HEPA vacuuming step is usually not needed (see Chapter 11). Other cleaning methods are acceptable, as long as clearance criteria are met and workers are not overexposed.

11. After final cleaning, perform a visual examination to ensure that all surfaces requiring lead hazard control have been addressed and all visible dust and debris have been removed. Record findings and correct any incomplete work. This visual examination should be performed by the owner or an owner's representative who is independent of the lead hazard control contractor.

12. If other construction work will disturb the lead-based paint surfaces, it should be completed at this point. If those surfaces are disturbed, repeat the final cleaning step after the other construction work has been completed.

13. Paint or otherwise seal treated surfaces and interior floors.

14. Conduct a clearance examination (see Chapter 15).

15. If clearance is not achieved, repeat the final cleaning.

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Step-by-Step Summary (continued)

16. Continue clearance testing and repeated cleaning until the dwelling achieves compliance with all clearance standards. As an incentive to conduct ongoing cleaning and a thorough final cleaning, the cost of repeated cleaning after failing to achieve clearance should be borne by the contractor as a matter of the job specification, not the owner.

17. Do not allow residents to enter the work area until cleaning is completed and clearance is established.

18. Cleaning equipment list:

- HEPA vacuums.
- Detergent.
- Waterproof gloves.
- Rags.
- Sponges.
- Mops.
- Buckets.
- HEPA vacuum attachments (crevice tools, beater bar for cleaning rugs).
- 6-mil plastic bags.
- Debris containers.
- Waste water containers.
- Shovels.
- Rakes.
- Water-misting sprayers.
- 6-mil polyethylene sheeting (or equivalent).

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Recommendations:

1. Due to the lead dust wipe results, it is recommended that the east end floor, middle of floor, west end floor, the west end lover wall north top wall, east end trap door floor, east end lower wall, east end top wall, and south end lower wall be thoroughly cleaned. Also, the two exhaust ducts must be thoroughly wiped down with an industrial cleaner using tri-phosphate, Mr. Kleen or Spic-n-Span. Even though the exhaust duct area was not sampled due to inaccessibility, it's a good probability that the two exhaust vents are highly contaminated due to the high lead wipe result taken from the Pontotoc Armory storage room exhaust vent. For additional lead cleaning measures, see attachment 4. (RAC 1)

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI May 30, 2000

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Indianola, MS Armory Indoor Firing Range wipe sample results.

1. References.

   a. 385-10, Army Safety Program

   b. National Guard Regulation, AR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft March 2000

   c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

   d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

   e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range at the Indianola, MS Armory by SSG Patricia A. Jones are enclosed.

3. Findings.

   a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require decontamination of the Indianola, MS Armory firing range.

   b. A single wipe blank sample was included in the sample bag. A wipe sample media not used during the sampling but handled in the field exactly the same way as the used media needs to be included for each ten samples taken to document the presence or absence of cross contamination of the sampling media.

4. Recommendations.

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a. Use the present results as baseline level prior to decontamination.

b. The sampling results follow the expected pattern of contamination and since no cross contamination is suspected the results can be used to initiate corrective action.

c. To initiate corrective action use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be decontaminated.

ii. determining acceptance of ranges after housekeeping clean up and/or decontamination of a range.

b. Closely follow all recommendations in References 1.b and 1.c when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled housekeeping cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust (see reference 1.c).

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

5. If additional information is needed about industrial hygiene services or lead wipe sample results; please contact Mr. Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, 1- Non-Responsive [redacted]

Non-Responsive [redacted]

Regional Industrial Hygienist

ENCL.
as

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 19, 2000

Non-Responsive
GA Army National Guard
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: Non-Responsive
FAX [redacted]

RE: INDIANOLA ARMORY Order No.: 0005286

Dear Non-Responsive

Analytical Environmental Services, Inc. received 22 samples on 5/15/00 8:15:00 AM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Laboratory Manager

CC:

3781 PRESIDENTIAL PARKWAY, SUITE 111 • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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Project Name: MS, Indianola Armory

BULK SAMPLE DATA

For use of ~~this form see~~ USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive

Sampled Installation: INDOOR FIRING RANGE

Project Number: 00006

ARLOC:

[redacted] Non-Responsive

Date Collected: [redacted]RIL 00

Date Shipped: 19 APRIL 00

Description of Operation: LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BEDS/AREA): INDIANOLA ARMORY

Associated Complaints (be specific): NONE

Associated Air Samples: ☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached: ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	BOTTOM LEFT WALL		0005286-1
	2	CENTER LEFT WALL		-2
	3	TOP LEFT WALL		-3
	4	Top Left Bullet Stop End		-4
	5	Middle Bullet Stop End		-5
	6	Bottom Right Bullet Stop End		-6
	7	Top Right Wall		-7

Comments to Lab: [redacted]

Lab Use Only

Analyst Initials | Reviewed by (Initials) | Date Received | Date Reported

Requests Performed | Comments

[redacted] Non-Responsive

5/15/2000 U.S. Mail

8:00 AM

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
[redacted] -IHS

Sampled Installation
INDOOR FIRING RANGE

Project Number
00006

ARLOC

Sample Collected by
[redacted]

Date Collected
18 APRIL 00

Date Shipped
19 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
INDIANOLA ARMORY

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	[illegible]	Manufacturer
Address		MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	8	Middle Right Wall		— 8
	9	Bottom Right Wall		— 9
	10	Bottom Rear Wall		— 10
	11	MIDDLE FLOOR		— 11
	12	Top Rear Wall		— 12
	13	Floor Right Bullet Stop		— 13
	14	REAR CENTER WALL		— 14

Comments to Lab:
[redacted]

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Operations Performed: Comments: 8/15 U.S. Pa

[redacted]

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
[redacted] - IHS

Sampled Installation
INDOOR FIRING RANGE

Project Number
00006

ARLOC

Samples Collected By
[redacted]

Date Collected
18 APRIL 00

Date Shipped
19 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
INDIANOLA ARMORY

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Mfr	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks	
	15	Floor Left Rear Wall			15
	16	Ceiling Left Bullet Stop			16
	17	Ceiling Center			17
	18	Ceiling Right Rear Wall			18
	19	BACK WALL IN OBSERVATION ROOM			19
	20	METAL CHAIR ON (L) WALL			20
	21	PLYWOOD ON RIGHT WALL			21

Comments to Lab

Lab Use Only

Lab List Checked	Reviewed by (Checked)	Date Received	Date Reported

Comments:

[redacted] 8/15/2000 U.S. Mail 8.15 a.m.

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted] IHS

Sampled Installation
INDOOR FIRING RANGE

Project Number
00006

ARLOC

Non-Responsive [redacted]

Date Collected
18 APRIL 00

Date Shipped
19 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
INDIANOLA ARMORY

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Ref	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	22	BLANK (CONTROL SAMPLE)		22
		Blank (Control Sample)		

Comments to Lab:

Lab Use Only

Analyst (Individual)	Reviewed by (Individual)	Date Received	Date Reported

U.S. Mail 8:15 am

Non-Responsive [redacted]

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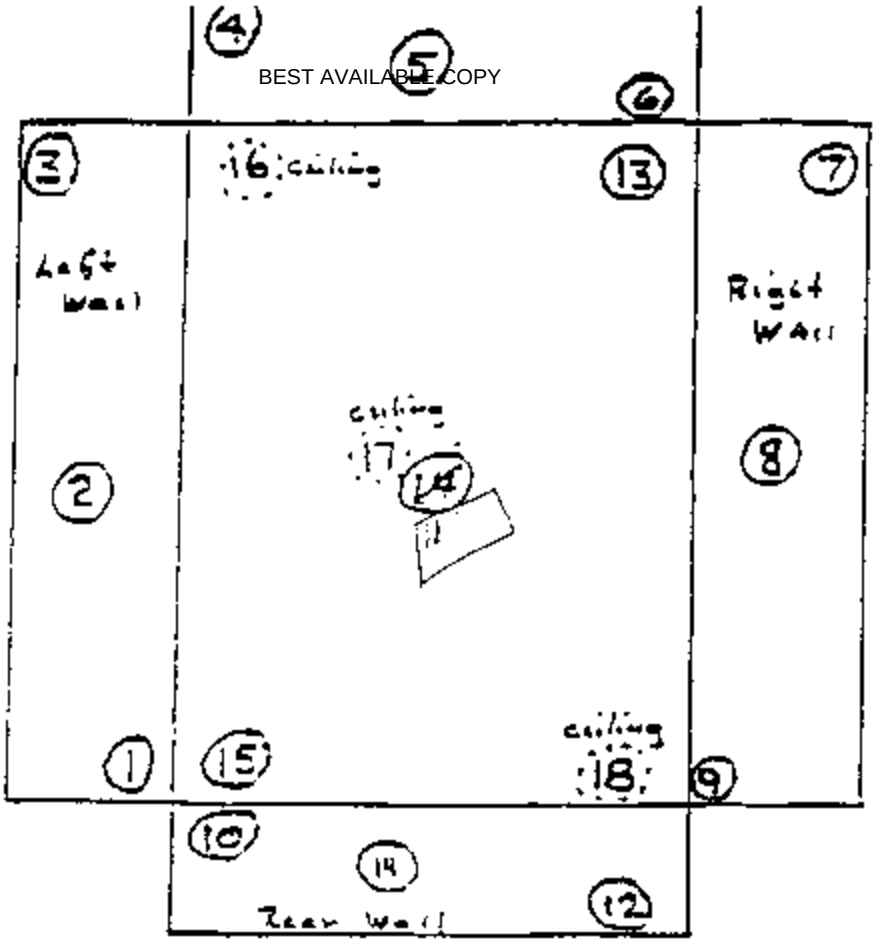

Contents of range samp...

1. range sampling diagra...
2. bulk sample data form...
3. sampling swabs
4. distilled water
5. bulk sample container
6. treatment gloves

○ —— WALL

◌ —— CEILING

□ —— FLOOR

1. Eighteen samples per rifle range will be taken.

   a. samples will be taken utilizing a 3"x 3" template.
   b. smear tabs will be moistened only with distilled water.
   c. samples are to be numbered and taken in correlation with the above diagram.
   d. each smear tab will be placed separately in a small, numbered plastic bag.

2. If property or equipment is being stored in the range take appropriate amount of samples not to exceed 15 each. Continue with the numbering system.

3. Bulk sample form [illegible] completed and signed [illegible]

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client Name GA ARMY NATL GUARD

Date and Time Receive 5/15/00 8:15:00 AM

Work Order Numbe [redacted]

Received by MH

Checklist completed b [redacted] 15-00 Date

Reviewed by [redacted] 5/16/00 Date

Matrix

Carrier name Std US Mail

Shipping container/cooler in good condition?	Yes ✔	No	Not Presen
Custody seals intact on shippping container/cooler?	Yes	No	Not Presen ✔
Custody seals intact on sample bottles?	Yes	No	Not Presen ✔
Chain of custody present?	Yes ✔	No	
Chain of custody signed when relinquished and received?	Yes ✔	No	
Chain of custody agrees with sample labels?	Yes ✔	No	
Samples in proper container/bottle?	Yes ✔	No	
Sample containers intact?	Yes ✔	No	
Sufficient sample volume for indicated test?	Yes ✔	No	
All samples received within holding time?	Yes ✔	No	
ontainer/Temp Blank temperature in compliance?	Yes ✔	No	
Water - VOA vials have zero headspace?	No VOA vials submitted ✔	Yes	No
Water - pH acceptable upon receipt?	Yes ✔	No	

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

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Analytical Environmental Services, Inc.

Date: 5/19/00

TOTAL METALS IN WIPE SAMPLES
N7082

CLIENT:	GA Army National Guard	**Lab Order:**	0005286
Project:	INDIANOLA ARMORY	**Date Received:**	5/15/00 8:15:00
Project No:		**Matrix:**	Wipe
PO No:		**Analyst:**	Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0005286-001A	1	69.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-002A	2	33.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-003A	3	200	µg, Total	20.0	1	4/18/00	5/18/00
0005286-004A	4	877,000	µg, Total	17,500	874	4/18/00	5/18/00
0005286-005A	5	35,900	µg, Total	742	37.1	4/18/00	5/18/00
0005286-006A	6	213,000	µg, Total	4,160	208	4/18/00	5/18/00
0005286-007A	7	194	µg, Total	20.0	1	4/18/00	5/18/00
0005286-008A	8	114	µg, Total	20.0	1	4/18/00	5/18/00
0005286-009A	9	220	µg, Total	20.0	1	4/18/00	5/18/00
0005286-010A	10	78.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-011A	11	3,730	µg, Total	55.6	2.78	4/18/00	5/18/00
0005286-012A	12	63.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-013A	13	12,000	µg, Total	204	10.22	4/18/00	5/18/00
0005286-014A	14	238	µg, Total	20.0	1	4/18/00	5/18/00
0005286-015A	15	48,900	µg, Total	931	46.57	4/18/00	5/18/00
0005286-016A	16	34.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-017A	17	23.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-018A	18	32.0	µg, Total	20.0	1	4/18/00	5/18/00
0005286-019A	19	169	µg, Total	20.0	1	4/18/00	5/18/00
0005286-020A	20	345	µg, Total	20.0	1	4/18/00	5/16/00
0005286-021A	21	541	µg, Total	20.0	1	4/18/00	5/16/00
0005286-022A	22	BRL	µg, Total	20.0	1	4/18/00	5/16/00

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI

June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive Non-Responsive, MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Indianola, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by SSG. Patricia Jones are enclosed.

3. Findings. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Indianola, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive [redacted]

Non-Responsive [redacted]
Regional Industrial Hygienist

ENCL.
as

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 10, 2002

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: Non-Responsive
FAX [redacted]

RE: Indianola, MS

Order No.: 0205125

Dear Non-Responsive

Analytical Environmental Servs, Inc. received 20 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive
[redacted]
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018
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FOIA Requested Record #J-15-0085 (MS)
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0 205125

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
03

ARLOC

Samples Collected By
Non-Responsive

Date Collected
25 APRIL 2002

Date Shipped
30 APRIL 2002

LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
CO B 2nd 198th
Indianola, MS

Associated Complaints (be specific)
NONE

Associated Air Samples ☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
001	1	BOTTOM LEFT WALL		
002	2	CENTER LEFT WALL		
003	3	TOP LEFT WALL		
004	4	Top Left Bullet Stop End		
005	5	Middle Bullet Stop End		
006	6	Bottom Right Bullet Stop End		
007	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed by (Initials) | Date Received | Date Reported

Procedures Performed | Comments: A.6 EN 5/4/02 12:30

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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0205125

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
03

ARLOC

Sampled/Collected By
Non-Responsive

Date Collected
25 APRIL 2002

Date Shipped
30 APRIL 2002

LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
CO B 2nd 198th
INDIANOLA, MS.

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Mail	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
008	8	Middle Right Wall		
009	9	Bottom Right Wall		
010	10	Bottom Rear Wall		
011	11	MIDDLE FLOOR		
012	12	Top Rear Wall		
013	13	Floor Right Bullet Stop		
014	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed by (Initials) | Date Received | Date Reported

Procedures Performed | Comments:

A GAN
5/4/02
12:30

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FOIA Requested Record #J-15-0085 (MS)
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0205125

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive

Sampled Installation: INDCOB FIRING RANGE

Project Number: 03

ARLOC:

Samples Collected by: Non-Responsive

Date Collected: 25 APRIL 2002

Date Shipped: 30 APRIL 2002

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA): CO B 2nd 198th INDIANOLA, MS

Associated Complaints (be specific): NONE

Associated Air Samples: ☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name

Vol

Manufacturer

Address

MSDS Attached: ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
015	15	Floor Left Rear Wall		
016	16	Ceiling Left Bullet Stop		
017	17	Ceiling Center		
018	18	Ceiling Right Rear Wall		
019	20	Blank Sample		
020	21	Blank Sample		

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed by (Initials) | Date Received | Date Reported

Analyses Performed | Comments:

A GEN
5/4/02
12:30

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client NGB

Date and Time 5/4/02 12:50

Work Order Number 0205125

Received by AG

Checklist completed by Non-Responsive [redacted] 5/4/02 Date

Reviewed by Non-Responsive [redacted] 5/6/02 Date

Carrier name: US MAIL

	Yes	No	Not Present
Shipping container/cooler in good condition?	✓		
Custody seals intact on shipping container/cooler?			✓
Custody seals intact on sample bottles?			✓
Chain of custody present?	✓		
Chain of custody signed when relinquished and received?	✓	✓	
Chain of custody agrees with sample labels?	✓		
Samples in proper container/bottle?	✓		
Sample containers intact?	✓		
Sufficient sample volume for indicated test?	✓		
All samples received within holding time?	✓		
Container/Temp Blank temperature in compliance?	✓		

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes ___ No ___

Water - pH acceptable upon receipt? Yes ___ No ___ NA

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: No TAT. Per client history, proceed with a standard TAT.

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT: National Guard Bureau Region-South III
Project: Indianola, MS
Project No: Indianola MS
PO No:

Lab Order: 0205125
Date Received: 5/4/02 12:30:00
Matrix: Wipe
Analyst: Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205125-001A	1	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-002A	2	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-003A	3	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-004A	4	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-005A	5	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-006A	6	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-007A	7	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-008A	8	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-009A	9	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-010A	10	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-011A	11	157	µg, Total	20.0	1	4/25/02	5/9/02
0205125-012A	12	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-013A	13	339	µg, Total	20.0	1	4/25/02	5/9/02
0205125-014A	14	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-015A	15	82.0	µg, Total	20.0	1	4/25/02	5/9/02
0205125-016A	16	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-017A	17	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-018A	18	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-019A	20	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205125-020A	21	BRL	µg, Total	20.0	1	4/25/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive [redacted] Non-Responsive [redacted] MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Jackson, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by SSG. Patricia Jones are enclosed.

3. Findings.

a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Canton, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-S1, Non-Responsive [redacted].

Non-Responsive [redacted]

Regional Industrial Hygienist

ENCL.
as

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 10, 2002

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: Non-Responsive
FAX [redacted]

RE: Jackson, MS

Order No.: 0205126

Dear Non-Responsive

Analytical Environmental Servs, Inc. received 18 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive
[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018

FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau

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0205126

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK. GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted] SPECIALIST

Sampled Installation
INDOOR FIRING RANGE

Project Number
04

ARLOC

Sampled Collected By
Non-Responsive [redacted]

Date Collected
26 APRIL 2002

Date Shipped
30 APRIL 2002

Description of Operation
LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
Raymond Rd Armory
Jackson, MS

Associated Complaints (be specific)
NONE

Associated Air Samples ☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name	[illegible]	Manufacturer

Address

MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
001	1	BOTTOM LEFT WALL		
002	2	CENTER LEFT WALL		
003	3	TOP LEFT WALL		
004	4	Top Left Bullet Stop End		
005	5	Middle Bullet Stop End		
006	6	Bottom Right Bullet Stop End		
007	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed by (initials)	Date Received	Date Reported

Procedures Performed **Comments:**

A-68N
5/4/02
12:30

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020 5126

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
04

ARLOC

Samples Collected by
Non-Responsive

Date Collected
26 APRIL 2002

Date Shipped
30 APRIL 2002

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
Raymond Road Armory
JWN, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	NSN	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
008	8	Middle Right Wall		
009	9	Bottom Right Wall		
010	10	Bottom Rear Wall		
*	11	Carpet on floor MIDDLE FLOOR		
011	12	Top Rear Wall		
012	13	Floor Right Bullet Stop		
013	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed By (Initials) | Date Received | Date Reported

Procedures Performed | Comments:

A. GEN
5/4/02
12:30

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0205126

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code) NGB-AVN-SI 510 PLAZA DR SUITE 1530 COLLEGE PARK, GA 30349	Point of Contact (name/AUTOVON) Non-Responsive LAT

Sampled Installation INDOOR FIRING RANGE	Project Number 04	ARLOC
Samples Collected by Non-Responsive	Date Collected 26 APRIL 2002	Date Shipped 30 APRIL 2002
Description of Operation LEAD SAMPLING OF FIRING RANGE		Location (BLDG/AREA) Raymond Rd. Armory Jxn. MS

Associated Complaints (be specific)

NONE

Associated Air Samples — If yes, list sample numbers

☐ Yes ☒ No

Label Information

Trade Name	[illegible]	Manufacturer
Address		MSDS Attached ☐ Yes ☐ No

Analysis Desired

LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
014	15	Floor Left Rear Wall		
015	16	Ceiling Left Bullet Stop		
016	17	Ceiling Center		
017	18	Ceiling Right Rear Wall		
	21			

Comments to Lab:

Lab Use Only

[illegible]	Reviewed by (initials)	Date Received	Date Reported
[illegible]	Comments:		

A. Orn
8/4/02
12:38

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Released by National Guard Bureau

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client NATIONAL GUARD BUREAU

Date and Time 5/6/02 12:30

Work Order Number 0205126

Received by Non-Responsive [redacted]

Checklist completed by Non-Responsive [redacted] Sign 5/6/02 Date

Reviewed by [redacted] 5/6/02 Date

Carrier name: OSMAIC

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓	No __	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? ~~Yes __ No __~~ NA

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: No TAT x 1 Blank Sample submitted and not on COC. Per client history, analyze the blank sample and proceed with a standard TAT. Sample #11 was not submitted. Per client history, omit this sample and proceed with all other analyses

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Jackson, MS
Project No: Jackson MS
PO No:

Lab Order: 0205126
Date Received: 5/4/02 12:30:00
Matrix: Wipe
Analyst: Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205126-001A	1	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-002A	2	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-003A	3	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-004A	4	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-005A	5	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-006A	6	45.0	µg, Total	20.0	1	4/26/02	5/9/02
0205126-007A	7	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-008A	8	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-009A	9	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-010A	10	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-011A	12	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-012A	13	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-013A	14	427	µg, Total	20.0	1	4/26/02	5/9/02
0205126-014A	15	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-015A	16	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-016A	17	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-017A	18	BRL	µg, Total	20.0	1	4/26/02	5/9/02
0205126-018A	BLANK SAMPLE	BRL	µg, Total	20.0	1	4/26/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI August 29, 2003

MEMORANDUM FOR: The Adjutant General of Mississippi, ATTN: Leland Armory Manager, 4168 Old Highway 61 North, Leland, MS 38756.

SUBJECT: Transmittal of IH Survey Report of the Leland Armory in Leland, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

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NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Leland Armory in Leland, MS.

k. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

l. Report dated 15 August 2003, Industrial Hygiene Survey, Non-Responsive of Tamar Industrial Hygiene Consulting.

2. General.

a. At the request of the MS ARNG Safety and Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling of the Leland Armory in Leland, MS.

b. The surveys were conducted by Non-Responsive of Tamar Industrial Hygiene Consulting, Naperville, IL

3. Findings. All HHIM field survey forms and survey findings of the report. (See enclosure 1)

4. Recommendations.

a. Follow all recommendations made in reference 1.l., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Control water infiltration in the armory and/or replace or repair damaged surfaces or components (ceiling and floor tiles). Building conditions that present IAQ concerns or problems not only exacerbates normally minor health issues but also tend to promote or accelerate building deterioration.

c. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-03. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-04 IHIP.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Leland Armory in Leland, MS.

f. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

5. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:
NBG-AVN-SH
State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.
State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Leland Armory
4168 Old Highway 61 North
Leland, MS 38756

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] CIH PE
Tammer Sciences, Inc.

August 15, 2003

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May, 2018

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- Site Description
- Scope of Work
- Methodology

Findings & Discussion

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- Asbestos Suspect Building Material ..... Page 3
- Noise Survey ..... Page 4
- Illumination Survey ..... Page 5
- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
- Recommendations ..... Page 6

Appendices

A. Photographs and Floor Layout.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. References.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Leland Armory on 17 June 2003 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<10 to 270 microgram per square foot.	Clean Contaminated Surfaces in Accordance to NGB Procedures.
Asbestos Bulk Samples	5 to 10% Chrysotile Asbestos in Floor Tiles	Update the facility asbestos management plan to include the floor tiles.
Noise Survey	Noise levels ranged from 44 to 57 dBA.	No action.
Illumination Survey	10 to 70 footcandles	Consider increasing the lighting in the Kitchen.
HVAC/IAQ	No issues.	No action.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Leland Armory in Leland, Mississippi on 17 June 2003

BACKGROUND:

Introduction. At the request of Non-Responsive [redacted] of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Leland Armory in Leland, Mississippi. Non-Responsive [redacted] contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 17 June 2003. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility houses the Water Supply Company and has four full time employees. The building is a one-story structure, which consists of an administrative office area, a kitchen, training or classroom, a drill hall, a supply room, a converted firing range used as a storage area, and a storage room. Copies of the floor layout and photos are included in Appendix A.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Quest Sound Level Meter Model 2400 Serial Number J10174219, with a calibration date of June 4, 2002. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted]

Lead Wipe Samples: Ten wipe samples were collected from the converted indoor firing range area and other administrative areas as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
LELW01	Top of Freezer in Kitchen	180
LELW02	Top of Filing Drawers Stored in the Converted IFR.	<10
LELW03	Top of Lockers Stored in the Converted IFR.	13
LELW04	Floor by the Bullet Trap Area.	18
LELW05	Return Grill in the Administrative Office.	13
LELW06	Supply Diffuser in Conference Room.	59
LELW07	Top of Soda Machine in Drill Hall.	13
LELW08	Top of Light Fixtures in Drill Hall.	270
LELW09	Top of Filing Cabinet in Supply Office.	<10
LELW10	Field Blank.	<10

The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: Three types of building materials were identified as potentially containing asbestos. The identified types included 12 by 12 inches floor tiles, baseboard, and 2x4 feet ceiling tiles. A total of three bulk samples were collected randomly from the identified materials. Other construction material consisted of cement floors and cinder block walls. The table below lists the samples collected and the results:

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Sample #	Description	% Asbestos Type
LELA01	12x12 inch floor tile.	5% Chrysotile.
LELA01A	Tile Mastic	10% Chrysotile.
LELA02	Baseboard	None.
LELA03	2x4 Ceiling tiles form the office areas	None.

Update the facility asbestos management plan to include the floor tiles. The laboratory report and chain of custody forms are attached in Appendices B and C.

Noise Survey Area noise readings were collected in the various surveyed areas within the armory and reported as a range. The Table below lists the noise reading ranges as recorded on the day of the survey:

Area	Reading in Decibels on the A-Scale (dBA)
Drill Hall	45 – 50
Class Room	48 – 50
Kitchen	44 – 48
Supply Room	47 – 50
Storage Area	45 – 50
Administrative Office #2	50 – 55
Administrative Office #1	52 – 57

All readings are well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 10 foot-candles to 70 foot-candles. Specific readings were as follows:

Area	Reading in Foot-candles
Drill Hall	30 – 50
Class Room	50 – 70
Kitchen	10 – 20
Supply Room	40 – 50
Storage Area	10 – 20

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Administrative Office #1	50 – 60
Administrative Office #2	52 – 57

Except for the Kitchen, all readings are within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 2 ceiling mounted air handlers located in a mechanical room. The system is capable to deliver outside makeup air to the occupied space. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendations:

1. Clean lead contaminated surfaces in accordance to National Guard Bureau Procedures.
2. Update the Facility Asbestos Management Plan to Include the Floor Tiles and Mastic
3. Consider Upgrading or increasing the lights in the kitchen.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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Photo #1: Leland Armory Front Entrance.

Photo #2: View of the Armory North Side.

Photo #3: Outside of the Firing Range on The South West of the Armory.

Photo #4: View of the North West Side of the Armory.

Photo #5: Drill Hall.

Photo #6: Administration Office area Showing Ceiling Tiles and Return Air Grill.

Photo #7: Converted Firing Range Facing East.

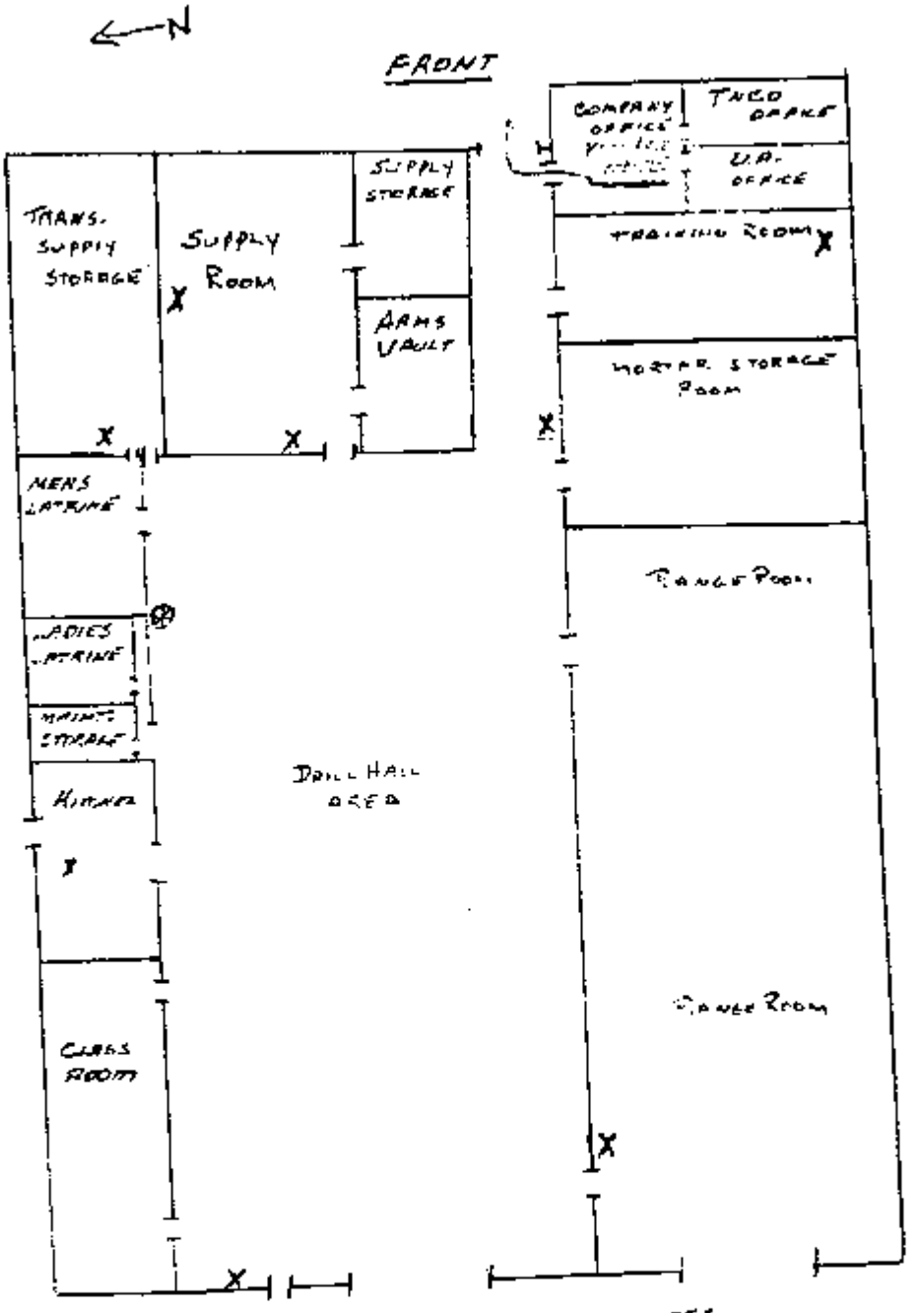
Photo #8: Converted Firing Range Facing West Showing Items Stored.

Photo #9: Kitchen.

Photo #10: Ceiling Mounted Air Handler.

Photo #11: Off White 12 by 12 inches Floor Tiles.

Photo #12: Baseboard Sampled as a Suspect Asbestos Containing Material.



X LOCATION OF FIRE EXTINGUISHERS

⊕ LOCATION OF FIRE HOSE

— Leland Armory

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APPENDIX B

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EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-9651 Email: gmiller1@emsl.com

EMSL

Attn: Non-Responsive [redacted] Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax:
Project: Non-Responsive [redacted]

Customer ID: TS80
Customer PO:
Received: 06/26/03 10:49 AM
EMSL Order: 200306601
EMSL Project ID:

Lead in Wipes by Flame AAS (SW 846, 7420)

Client Sample Description		Lab ID	Analyzed	Area Sampled	Lead Concentration
LELW01	Results for these wipe samples do not meet the EPA standards for sample matrix and are not recognized under the NLLAP accreditation program	0001	7/9/03	144 in²	160.0 µg/ft²
LELW02		0002	7/9/03	144 in²	<10.0 µg/ft²
LELW03		0003	7/9/03	n/a	13.0 µg/wipe
LELW04		0004	7/9/03	n/a	18.0 µg/wipe
LELW05		0005	7/9/03	n/a	13.0 µg/wipe
LELW06		0006	7/9/03	n/a	59.0 µg/wipe
LELW07		0007	7/9/03	n/a	13.0 µg/wipe
LELW08		0008	7/9/03	n/a	270.0 µg/wipe
LELW09		0009	7/9/03	n/a	<10.0 µg/wipe
LELW10		0010	7/9/03	n/a	<10.0 µg/wipe

Non-Responsive [redacted]

AIHA: 100194
or other approved signatory

The QC data associated with the sample results included in the report meet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comment section.

ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100194

Printed: 7/9/03 1:18:59 PM

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EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: asiegel@EMSL.com

EMSL

Attn: Non-Responsive
Tammar Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: Non-Responsive
Project: [redacted]

Customer ID: TS80
Customer PO:
Received: 06/25/03 5:33 PM

EMSL Order: 040310564
EMSL Project ID:
Analysis Date: 7/5/2003

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos %	Fibrous	Non-Asbestos %	Non-Fibrous	Asbestos %	Type
LELA1 TILE 040310564-0001		Gray Non-Fibrous Heterogeneous	Dissolved			95%	Non-fibrous (other)	5%	Chrysotile
LELA1 MASTIC 040310564-0003		Black Fibrous Heterogeneous	Dissolved			90%	Non-fibrous (other)	10%	Chrysotile
LELA2 040310564-0002		Brown Non-Fibrous Heterogeneous	Dissolved			100%	Non-fibrous (other)	None Detected	
LELA3 040310564-0004		Gray Fibrous Heterogeneous	Dissolved NOT ON CHAIN OF CUSTODY.	50% 30%	Cellulose Min. Wool	20%	Non-fibrous (other)	None Detected	

Non-Responsive
[redacted]

Analyst(s)
Non-Responsive

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLM-1

1

THIS IS THE LAST PAGE OF THE REPORT.

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APPENDIX C

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200306601

LEAD

EMSL ANALYTICAL — CHAIN OF CUSTODY

Date: _____ EMSL Representative: _____ Project Name/No.: _____ P.O.#: _____

Company Name: Tammer Sciences, Inc. EMSL-Bill to: Same as

Street: 3744 Lawrence Drive Street: _____

Box #: _____ Box #: _____

City/State: Naperville, IL Zip: 60564 City/State: _____ Zip: _____

Phone Results to: (Name) [redacted] Telephone: [redacted]

Fax Results to: (Name) [redacted] Fax #: _____

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod. / AOAC (974.02)	Flame Atomic Absorption	0.01% ++	
Lead Wastewater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☐-ASTM List Wipe Type ☐-non ASTM	SW846-7420 / HUD Appendix 14.2 Digest.	Flame Atomic Absorption	10 ug/wipe	6-10
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 ****.126 / SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead Wastewater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.3 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification Requirement)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++ ,# Please Refer to Price Quote

^If no box is checked, non-ASTM is assumed

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
LEL W01		144 in²	
LEL W02		"	

@ Relinquished By: (Perso[redacted] Date: 6/20/03

Received at EMSL By: _____ Date: 6/26

Received at EMSL By: _____ Date: _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory assists to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 w STLC.doc

Page 1 of 2

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FOIA Requested Record #J-15-0085 (MS)
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200306601

EMSL ANALYTICAL CHAIN OF CUSTODY LEAD

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
LELW03			
LELW04			
LELW05			
LELW06			
LELW07			
LELW08			
LELW09			
LELW10			

@ Relinquished By: (Person) Non-Responsive Date: 6/20/03

Received at EMSL By: Date:

Received at EMSL By: Date:

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Page 2 of 2

Lead Chain Nov 2001 v7 STLC.doc

040310564

EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

Third Party Billing requires written authorization from third party

EMSL Rep:

Your Company Name: Tammer Sciences, Inc.
Street: 3744 Lawrence Drive
Box #:
City/State: Naperville, Il Zip: 60564

EMSL-Bill to: Same
Street:
Box #:
City/State: Zip:

Phone Results to:
Name: Non-Responsive
Telephone #:
Project Name/Number: MSARNG

Fax Results to:
Name: Non-Responsive
Fax #:
Purchase Order #:

MATRIX			TURNAROUND			
☐ Air	☐ Floor Tile	☐ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☑ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☐ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☑ 144+ hours 6-10 Days			

TEM AIR, 3 hours, 6 hours. Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon - Fri.). Please Refer to Price Quote

PCM - Air
☐ NIOSH 7400
☐ OSHA
☐ Other:

TEM AIR
☐ AHERA
☐ NIOSH 7402
☐ EPA Level II

TEM WATER
☐ Wastewater
☐ Drinking Water EPA 100.1
☐ Water - NY Wastewater
☐ Water-NY Drinking Water

PLM - Bulk
☑ EPA 600/R-93/116
☐ EPA Point Count
☐ NY Stratified Point Count
☐ PLM NOB (Gravimetric) NY 198.1
☐ Other:

TEM BULK/misc
☐ Drop Mount (Qualitative)
☐ Chatfield
☐ TEM NOB (Gravimetric) NY 198.4

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

TEM MICROVAC / WIPE
☐ ASTM D 5755-95 quantitative method

XRD
☐ Asbestos
☐ Silica

OTHER
☐

SEM Air or Bulk
☐ Qualitative
☐ Quantitative

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)

Total Samples #: 2

Client Sample # (s): LELA1 - LELA2

Relinquished: Non-Responsive Date: 6/20/03 Time:

Received: Date: Time:

1

From Lead

Non-Responsive 03

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APPENDIX D

Posted to NGB FOIA Reading Room
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FOIA Requested Record #J-15-0085 (MS)
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HHIMS Industrial Hygiene Survey Form

Front page

AHLOC: 47000

Installation:

Building: ARMORY

Room Number:

Unit / Organization (45): 1387th QM Water Supply, Leland, MS

Location: [redacted]

Operation:

Survey Date: month: day: 7

Evaluator-HNUS:

Macom: XX

Submacom: NG

RAC:

DSN:

Commercial:

Frequency (hrs/day):

No. CIVs:

No. MIL: 04

Contractors:

No. LOCs:

Ventilation Units:

Non-Responsive

Controls Present (If >8 continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit code:

Controls Required (25 characters max): N/A

Manufacturer's Description (10 characters max):

NIOSH TC # or Foreign equivalent (10 characters max):

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118 (muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACD ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
PONOISECO	1 2 0 0 1 - 2 9 - 5			Chrysotile Asbestos
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOR				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments — Remember to comment on problems, recommendations, and needed control items

Operation described is

5-10% Chrysotile asbestos in Floor tiles

(comments continued on attached)

☐ This operation was explained to the evaluator, but was not actually observed.

There is a noise data sheet attached to this form

There is a ventilation data sheet attached to this form

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May, 2018

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 4 7 0 0 0

Installation:

Building: A R M O R Y

Room Number:

Location:

Operation:

Survey Date: month 0 3 0 6 1 7 day

Evaluator-HNUS: [redacted]

Macom: X X

Submacom: N G

Unit / Organization (45): 1387th QM Water Supply Leland, MS

RAC:

[redacted]

Non-Responsive

DSN: [redacted]

Commercial: [redacted]

Frequency (hrs/day):

No. CIVs:

No. MIL: 0 4

Contractor:

No. LOCs:

Ventilation Units:

Controls Present (If >8, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit code:

Controls Required (25 characters max): N/A

NIOSH TC # or Foreign equivalent (10 characters max)

Manufacturer's Description (18 characters max)

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-115 (muff/earplug comb muffs and earplugs			
(115 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO AOM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
PONOISECO	7439-92-1			Lead dust
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMMAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOIL				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments

Remember to comment on problems, recommendations, and special control items

Operation described is

Converted IFR and small arms cleaning tanks in the drill Hall

(comments continued on attached)

☐ This operation was explained to the evaluator, but was not actually observed.

There is a noise data sheet attached to this form

There is a ventilation data sheet attached to this form

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APPENDIX E

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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REFERENCES

1. American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23rd Edition, 1998.

2. American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

3. American National Standards Institute, Z358.1-1998. Emergency Eyewash and Shower Equipment 1998.

4. Army Regulation (AR) 11-34, The Army Respiratory Protection Program, 1990

5. Army Regulation (AR) 40-5, Preventative Medicine, 15 October 1990.

6. Army Regulation (AR) 385-10, The Army Safety Program, 23 May 1988.

7. National Fire Protection Association (NFPA) No. 30, Standard for Flammable and Combustibles Liquid Code, 1996.

8. National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.

9. NGR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

10. TB MED 503, The Army Industrial Hygiene Program, February 1985.

11. Title 29, Code Of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

12. TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

13. TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI May 5, 2000

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive, MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Louisville, MS Armory Indoor Firing Range wipe sample results.

1. References.

   a. 385-10, Army Safety Program

   b. National Guard Regulation, AR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft March 2000

   c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

   d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

   e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range at the Louisville, MS Armory by Non-Responsive are enclosed.

3. Findings.

   a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require decontamination of the Louisville, MS Armory firing range.

   b. A single wipe blank sample was included in the sample bag. A wipe sample media not used during the sampling but handled in the field exactly the same way as the used media needs to be included for each ten samples taken to document the presence or absence of cross contamination of the sampling media.

4. Recommendations.

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a. To establish a baseline level, prior to decontamination, the sampling needs to be repeated including a blank for each ten samples taken.

b. The sampling results follow the expected pattern of contamination and since no cross contamination is suspected the results can be used to initiate corrective action.

c. To initiate corrective action use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be decontaminated.

ii. determining acceptance of ranges after housekeeping clean up and/or decontamination of a range.

b. Closely follow all recommendations in References 1.b and 1.c when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled housekeeping cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust (see reference 1.c).

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

5. If additional information is needed about industrial hygiene services or lead wipe sample results; please contact Mr. [redacted] Regional Industrial Hygienist, NGB-AVN-SI, 1-[redacted].

Non-Responsive

Non-Responsive

Non-Responsive

Regional Industrial Hygienist

ENCL.
as

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 24, 2000

[redacted]
GA Army National Guard
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE Louisville/ 00005 Order No.: 0004354

Dear [redacted]

Analytical Environmental Services, Inc. received 24 samples on 4/18/00 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

CC:

3781 PRESIDENTIAL PARKWAY, SUITE 111 • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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BULK SAMPLE DATA

For use of ~~this form~~ USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK. GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted] SPECIALIST

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	00005	

Samples Collected by	Date Collected	Date Shipped
Non-Responsive [redacted]	07 APRIL 00	10 APRIL 00

Description of Operation	Location (BLDG/AREA)
LEAD SAMPLING OF INDOOR FIRING RANGE	LOUISVILLE –

Associated Complaints (be specific)
NONE

Associated Air Samples — If yes, list sample numbers
☐ Yes ☒ No

Label Information

Grade Name	Name	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	BOTTOM LEFT WALL		0004354-1
	2	CENTER LEFT WALL		-2
	3	TOP LEFT WALL		-3
	4	Top Left Bullet Stop End		-4
	5	Middle Bullet Stop End		-5
	6	Bottom Right Bullet Stop End		-6
	7	Top Right Wall		-7

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed by (initials)	Date Received	Date Reported

Comments (attached) Comments:

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May, 2018

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-CO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted]

Sampled Installation: FIRING RANGE

Project Number: 00005

ARLOC:

[redacted]

Date Collected: 07 APRIL 00

Date Shipped: 10 APRIL 00

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location (Building): LOUISVILLE

Associated Complaints (be specific): NONE

Associated Air Samples: [ ] Yes [X] No

If yes, list sample numbers

Label Information

Trade Name:

Manufacturer:

Address:

MSDS Attached: [ ] Yes [ ] No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	8	Middle Right Wall		0004354 -8
	9	Bottom Right Wall		-9
	10	Bottom Rear Wall		-10
	11	MIDDLE FLOOR		-11
	12	Top Rear Wall		-12
	13	Floor Right Bullet Stop		-13
	14	REAR CENTER WALL		-14

Comments to Lab:

Lab Use Only

Analyst Initials: Reviewed by Initials: Date Received: Date Reported:

Results Verified: Comments:

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May, 2018

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted]

Sampled Installation
INDOOR FIRING RANGE

Project Number
00005

ARLOC

Samples Collected by
Non-Responsive [redacted]

Date Collected
7 APRIL 00

Date Shipped
10 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
LOUISVILLE, MS.

Associated Complaints (be specific)
NONE

Associated Air Samples
☐ Yes ☒ No

If yes, list sample numbers

Label Information

Name

Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	15	Floor Left Rear Wall		0004354-015
	16	Ceiling Left Bullet Stop		-16
	17	Ceiling Center		-17
	18	Ceiling Right Rear Wall		-18
	19	FIRE EXTINGUISHER		-19
	20	MAP RIGHT BOTTOM BULLET STOP		-20
	21	OBSERVATION ROOM BACK WALL		-21

Comments to Lab: [redacted]

Lab Use Only

Reviewed by (Initials) | Date Received | Date Reported

Comments:

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is ESHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted]

Sampled Installation
FIRING RANGE

Project Number
00005

ARLOC

Non-Responsive [redacted]

Date Collected
7 APRIL 00

Date Shipped
10 APRIL 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (City/Area)
LOUISVILLE, MS.

Associated Complaints (as specified)
NONE

Associated Air Samples
☐ Yes ☒ No

If Yes, list sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	22	AFAST	0004354-2	
	23	LT. GREEN PLASTIC BOX TOP CENTER		-23
	24	Blank (Control Sample)		-24

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed by (Initials) | Date Received | Date Reported

Comments

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May, 2018

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FOIA Requested Record/W 15-0005 (MS)
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client Name GA ARMY NATL GUARD

Date and Time Receive 4/18/00 12:30:00 PM

Work Order Numbe 0004354

Received by [redacted]

Checklist completed b [redacted] 4/18/00 Date

Reviewed by [redacted] 4/18/00 Date

Matrix

Carrier name Std US Mail

Shipping container/cooler in good condition?	Yes ☑	No	Not Presen
Custody seals intact on shippping container/cooler?	Yes ☐	No	Not Presen ✔
Custody seals intact on sample bottles?	Yes ☐	No	Not Presen ✔
Chain of custody present?	Yes ☑	No	
Chain of custody signed when relinquished and received?	Yes ☑	No	
Chain of custody agrees with sample labels?	Yes ☑	No	
Samples in proper container/bottle?	Yes ☑	No	
Sample containers intact?	Yes ☑	No	
Sufficient sample volume for indicated test?	Yes ☑	No	
samples received within holding time?	Yes ☑	No	
Container/Temp Blank temperature in compliance?	Yes ☑	No	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes	No
Water - pH acceptable upon receipt?	Yes ☑	No	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

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Analytical Environmental Services, Inc.

Date: *24-Apr-00*

CLIENT: GA Army National Guard
Lab Order: 0004354
Project: Louisville 00005

Sample ID	Units		Lead
01	µg, Total		< 20
02	µg, Total		< 20
03	µg, Total		< 20
04	µg, Total		19,500
05	µg, Total		10,200
06	µg, Total	<	101,000
07	µg, Total		< 20
08	µg, Total		< 20
09	µg, Total		20
10	µg, Total		< 20
11	µg, Total		22.0
12	µg, Total		< 20
13	µg, Total		235
14	µg, Total		< 20
15	µg, Total		23.0
16	µg, Total		< 20
17	µg, Total		< 20
18	µg, Total		< 20
19	µg, Total		< 20
20	µg, Total		< 20
21	µg, Total		< 20
22	µg, Total		< 20
23	µg, Total		< 20
24	µg, Total		29.0

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May, 2018

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

16 May 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted], Supervisor Louisville Armory, 2310 Hwy 15 South, Louisville, MS 39339.

Thru: Non-Responsive [redacted] DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Louisville Armory, Louisville, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Louisville Armory, Louisville, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

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SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Louisville Armory, Louisville, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2011. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2012 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:

Non-Responsive tate Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..

e Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Louisville Armory
2310 Hwy 15 South
Louisville, MS 39339

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive CIH PE
Tammer Sciences, Inc.

May 9, 2011

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May, 2018

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- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
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A. Floor Layout and Illumination Measurements.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. Photographs.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Louisville Armory on 23 February 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, where necessary, conducting an illumination survey, a noise survey, where excessive noise sources are identified, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 to 196 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No excessive noise levels were identified.	No action.
Illumination Survey	Average readings ranged from 5 to 86 foot candles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room. Water leaks and damage was observed in the exercise room.	Consider replacing the wood with metal. Ensure that all water leaks are repaired and building damaged materials are replaced.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Louisville Armory in Louisville, Mississippi on 23 February 2011

BACKGROUND:

Introduction. At the request of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Louisville Armory in Louisville, Mississippi. Non-Responsive, Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 23 February 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 199, houses Company G 104 Service Battery 2-114. Three full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, a drill hall, a supply room, classrooms, and an exercise room. The indoor firing range has been converted to the mobility area. Copies of the floor layout are included in Appendix A. Photos are included in Appendix E.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Where the presence of asbestos was suspect, bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was intended to be minimally destructive and samples were collected from inconspicuous areas. Each collected sample, if collected, was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Larson Davis Model Spark 706RC noise level meter was used to collect area noise readings. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive.

Lead Wipe Samples: Ten wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
LV01	TNCO office bookshelf.	<20
LV02	Top of fridge in kitchen.	<20
LV03	Drill hall floor south east corner.	20
LV04	Drill hall floor middle of hall.	<20
LV05	Drill hall floor north west corner by vault.	<20
LV06	Top of vending machine in drill hall.	27
LV07	Drill hall floor in form of converted IFR.	<20
LV08	Converted IFR floor by trap.	196
LV09	Top of shelf middle of converted IFR.	<20
LV10	Top of extinguisher case in the converted IFR.	29

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: No suspect building material types were identified in the Armory as potentially containing asbestos.

Noise Survey Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were collected. Noise levels are likely to be well below the Occupational Safety and Health

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Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 2 foot-candles to 114 foot-candles. Specific readings were as follows:

Area	Lighting Readings in Foot Candles		
	Min	Average	Max
Orderly Room	5	35	57
R&R Office	2	11	78
1SG Office	12	44	80
TNCO	10	49	104
CL2 Office	21	35	38
RNCO Office	10	27	40
Conference Room	27	75	114
XO/PL/PSG Office	6	49	79
Classroom	9	30	93
Scullery	44	86	101
Kitchen	25	69	96
Pantry	17	38	66
Supply Annex	1	11	24
Supply room	1	5	11
Drill hall	13	36	90
Weight Room	12	30	78
Mobility/OCIE	3	16	32

Except for the kitchen and the Scullery all readings were outside the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work. 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

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Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 4 forced air units located two mechanical rooms. No evidence of outside makeup air capabilities for any o fthe four system. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure. No complaints of indoor air quality issues were documented or communicated with the POC. Other water leaks were observed in the exercise room. According to [redacted], FMO has been informed and they re working on repairing the leaks and replacing all water damaged materials.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room and repair all water leaks in the exercise rooms.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact [redacted], Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at [redacted].

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APPENDIX A

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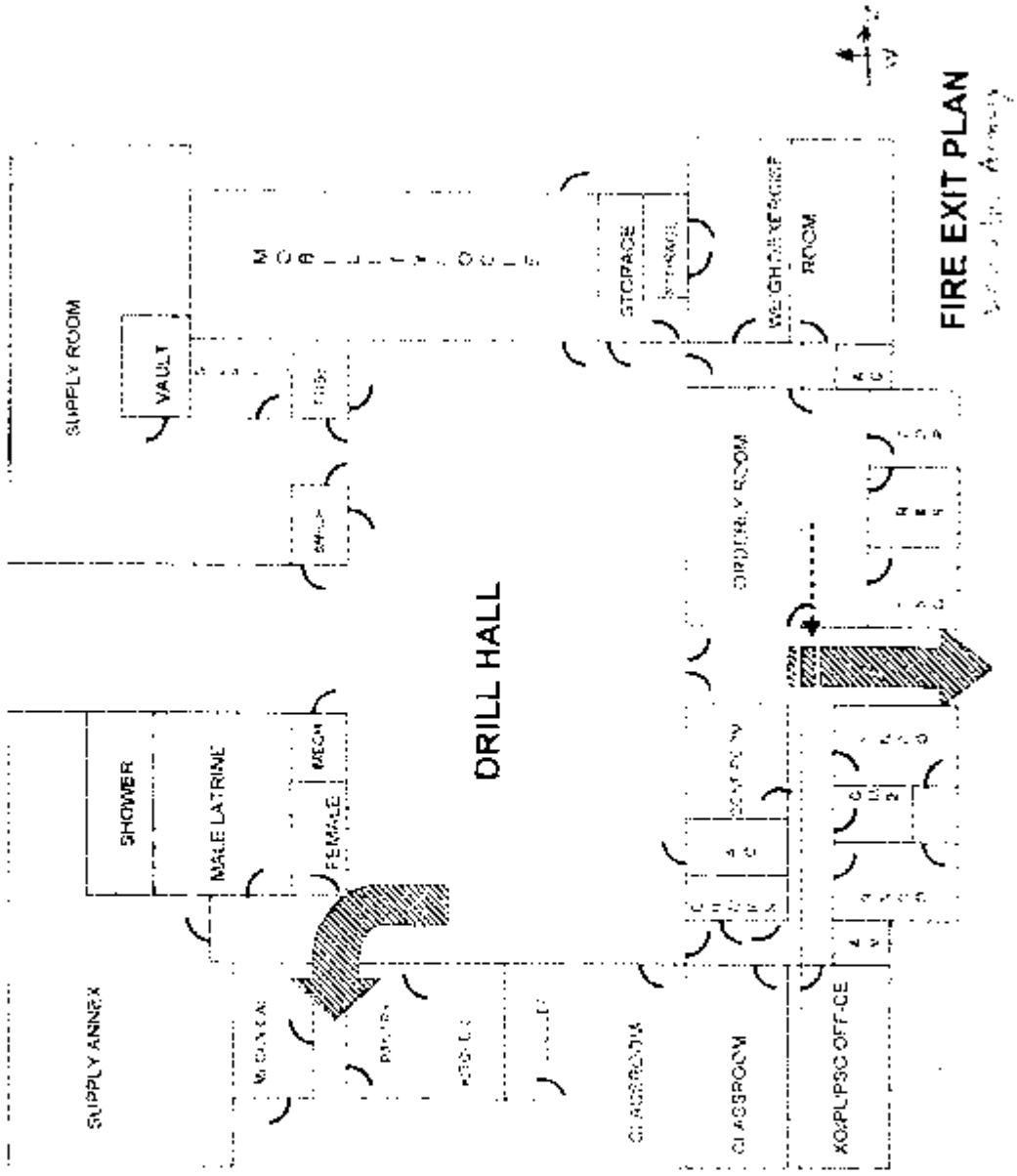
FIRE EXIT PLAN
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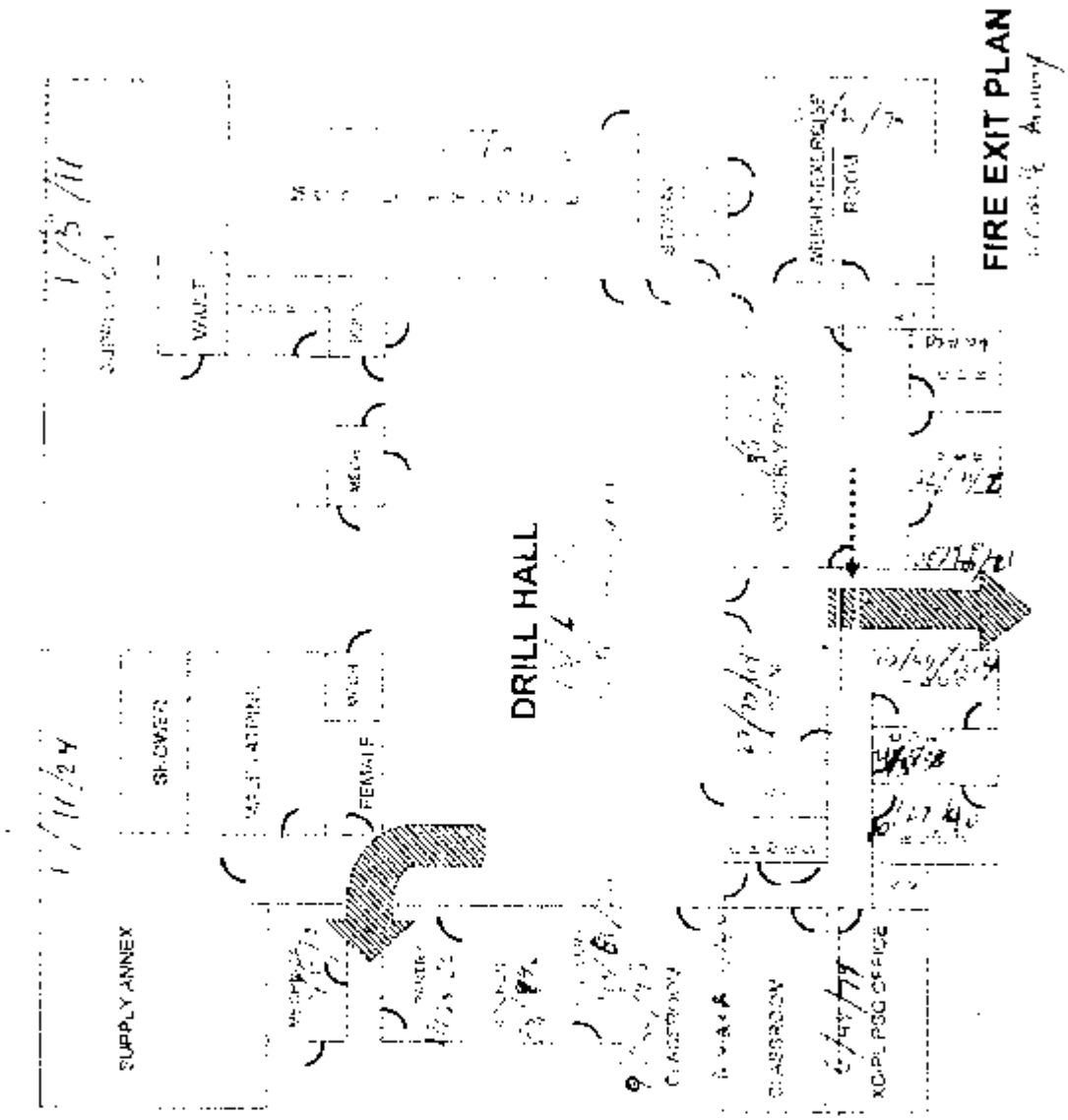
VAULT
STORAGE
ROOM
DRILL HALL
SHOWER
MALE LATRINE
FEMALE
SUPPLY ANNEX
CLASSROOM
CLASSROOM
XO/PLPSO OFF-CE



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APPENDIX B

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 11, 2011
Non-Responsive
[redacted]
Tammer Sciences, Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: MSARNG Armories

Dear Non-Responsive [redacted]

Order No: 1100436

Analytical Environmental Services, Inc. received 62 samples on 3/4/2011 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive [redacted]
Project Manager

[illegible]

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Analytical Environmental Services, Inc.

Date: [illegible]

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: [illegible]
Project: [illegible]
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
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Qualifiers: [illegible]

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Analytical Environmental Services, Inc.

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[illegible] (N91081[illegible]7082)
N7102

CLIENT: [illegible]
Project: [illegible]
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: [illegible]

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Qualifiers: [illegible]

Results are [illegible]

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APPENDIX C

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FOIA Requested Record #J-15-0085 (MS)
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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX (770) 457-8188

CHAIN OF CUSTODY

Work Order: 11-3436

Date: 3/22/2011 Page 1 of 1

COMPANY: [redacted] Non-Responsive

ADDRESS: 2994 Lawrence Drive
Magnolia, NC 28364

PO#: 630 561 7606

[redacted] Non-Responsive

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Total Mercury	Lead	PRESERVATION (See codes)	REMARKS	No. of Containers
1	MW	2/21	day			Water	✓	✓			
2	WFB - Blank	2/21	PM			Water					
3	TM01	2/22	day			Basis		✓			
4	CS01 → CS11	2/22/11	AM			Sediment			✓		
5	LV01 → LV10	2/22/11	PM			Leaf			✓		
6	AK01 → AK09	2/22/11	AM						✓		
7	CP01 → CP09	2/22/11	PM						✓		
8	WP01 → WP10	2/22/11	AM						✓		
9	SV01 → SV10	2/22/11	PM						✓		
10											
11											
12											
13											
14											

RELINQUISHED BY: [redacted] Non-Responsive DATE/TIME: 3/22/11 PM

RECEIVED BY: [redacted] Non-Responsive DATE/TIME: 3/22/11

PROJECT INFORMATION

PROJECT NAME: MSANG Annuals

PO#:

[redacted] Non-Responsive

RECEIPT

Total # of containers:

Turnaround Time Required
- Standard (Business Days)
- 7 Business Days Rush
- 3 Business Days Rush
- Next Business Day Rush
- Same Day Rush (notify mgr.)
- Other

Received in Good Condition?
Cooler Temp.
Custody Seals Intact?

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD
Carrier
Tracking #
Cooler Temp.
Other

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED ON THE NEXT BUSINESS DAY. IF NO DATE IS MARKED ON COC ANSWER WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A - Air, DW - Drinking Water, SL - Sediment, SO - Soil, SW - Surface Water, W - Water (Effluent), WW - Wastewater, DIW - Deionized Water, O - Other (specify)

PRESERVATIVE CODES: 1 - Acid, 2 - Base, 3 - Bisulfate, 4 - Cyanide, 5 - Nitric Acid, 6 - Sodium Bisulfate/Ascorbic Acid, 7 - Sodium Hydroxide/Zinc Acetate, 8 - Sulfuric Acid, 9 - None, 10 - Other (specify)

Yellow Copy - Original, Pink Copy - Client

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form — Front Page

ARLOC: 4 7 0 0 0 0
Installation: [redacted]
Building: M A I N
Room Number:

Location: M S
Operation:
Survey Date: Month 0 2 2 3 day 1
Evaluator -HNUS: [redacted]
Macom: N G
Submacom: X X
Unit / Organization (45): Company G 104 Service Battery 2-114
RAC:

[redacted]

DSN: [redacted]
Commercial: [redacted]
Frequency (hrs/day): 1
No. CIVs:
No. MIL: 0 3
Contractors: 0 0
No. LOCs:
Ventilation Units:

0 0 | 0 0 | 0 0 | 0 0

Controls Present (if>6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit Code:

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs		X	X
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safet(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

HHIMS Industrial Hygiene Survey Form — Back Page

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	CAS code	PAC	EPC	Hazard Description
PONOISECO	7 4 3 9 - 9 7 - 1			Lead Dust
POHOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POHLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOIL				

Social Security Number or Unique identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

> Personnel data provided by the facility is attached to this form

Comments Remember to comment on problems, recommendations, and needed control items

Operation described is

Small arms clean ups in drill hall. Surface wipe samples were collected fro various areas of the Armory

Refer to the report for the results

☐ Comments continued on attached

This operation was explained to the evaluators but was not actually observed

There is a noise data sheet attached to this form

There is a ventilation data sheet attached to this form

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APPENDIX E

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FOIA Requested Record #J-15-0085 (MS)
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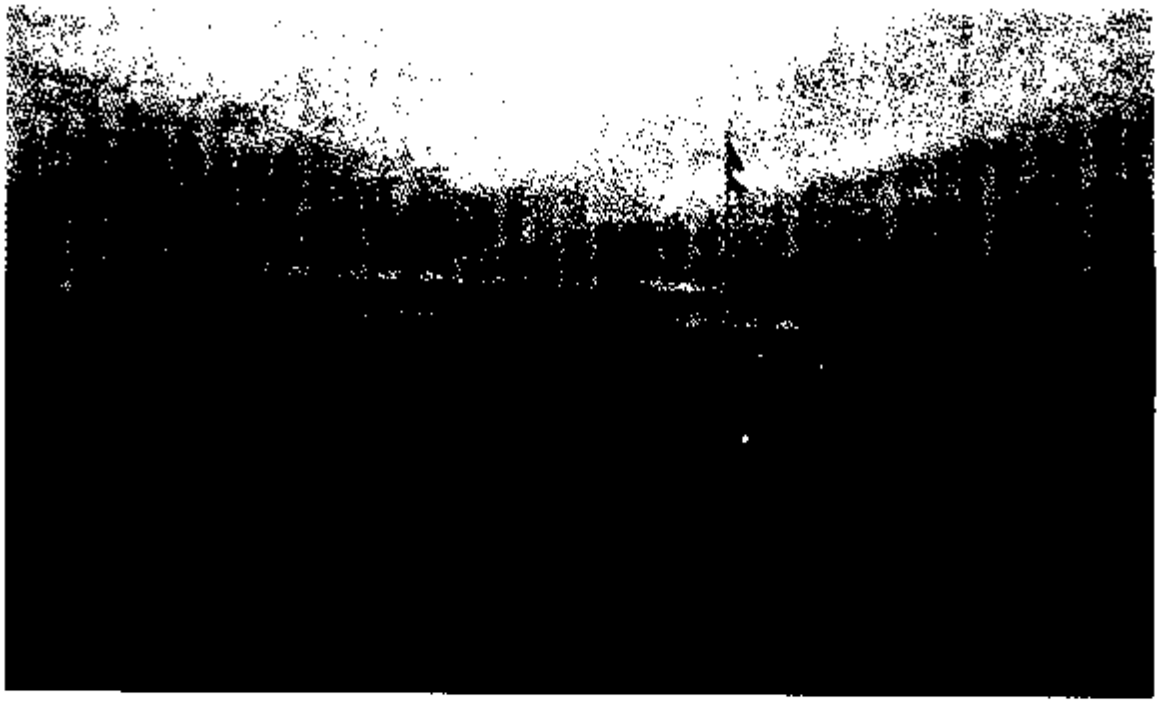

Photo #1: Front entrance to the Louisville Armory.

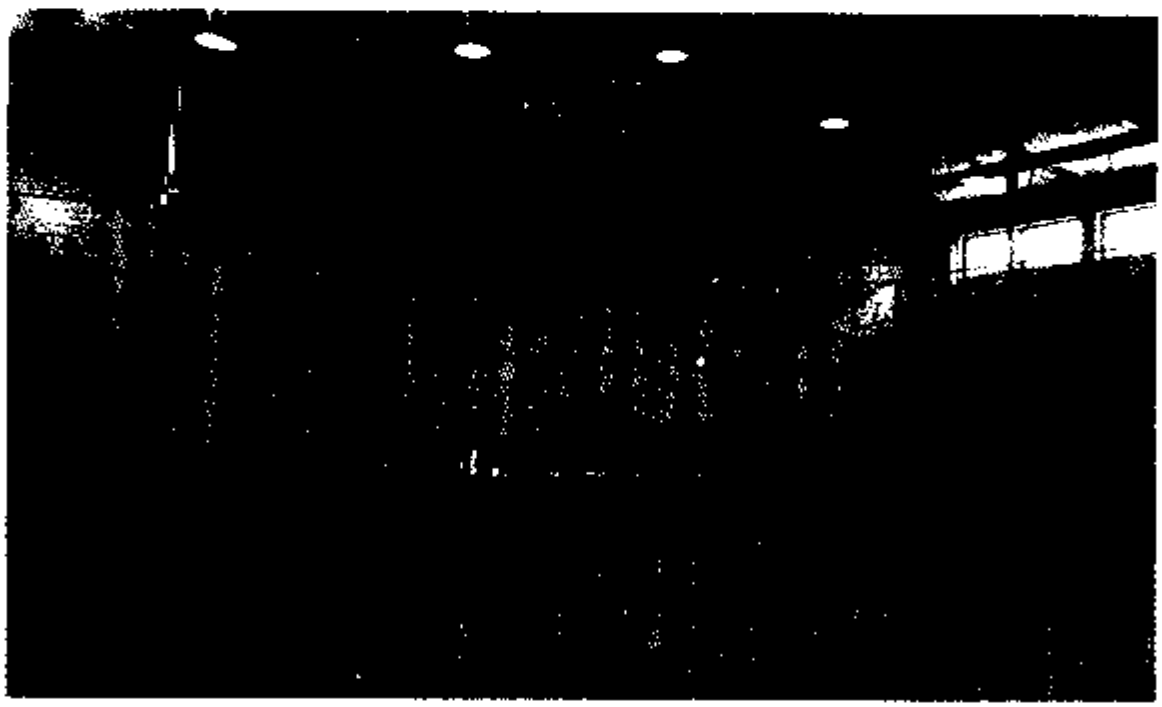

Photo #2: Drill Hall facing south.

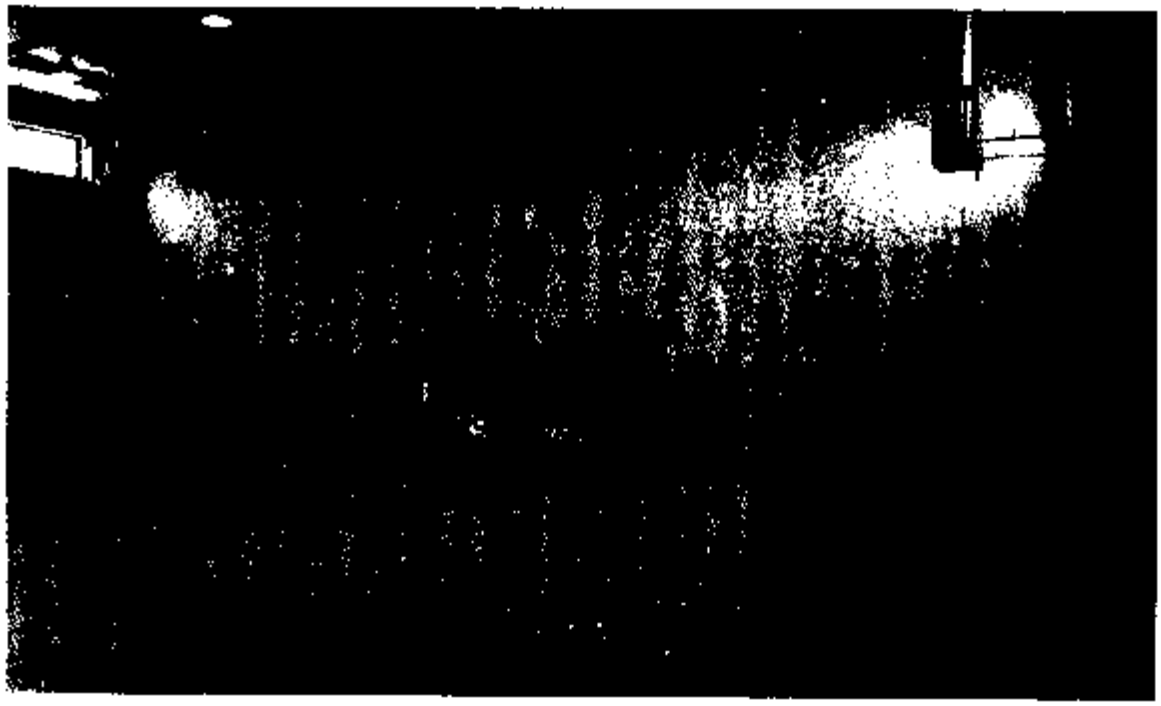

Photo #3: Drill hall facing north.

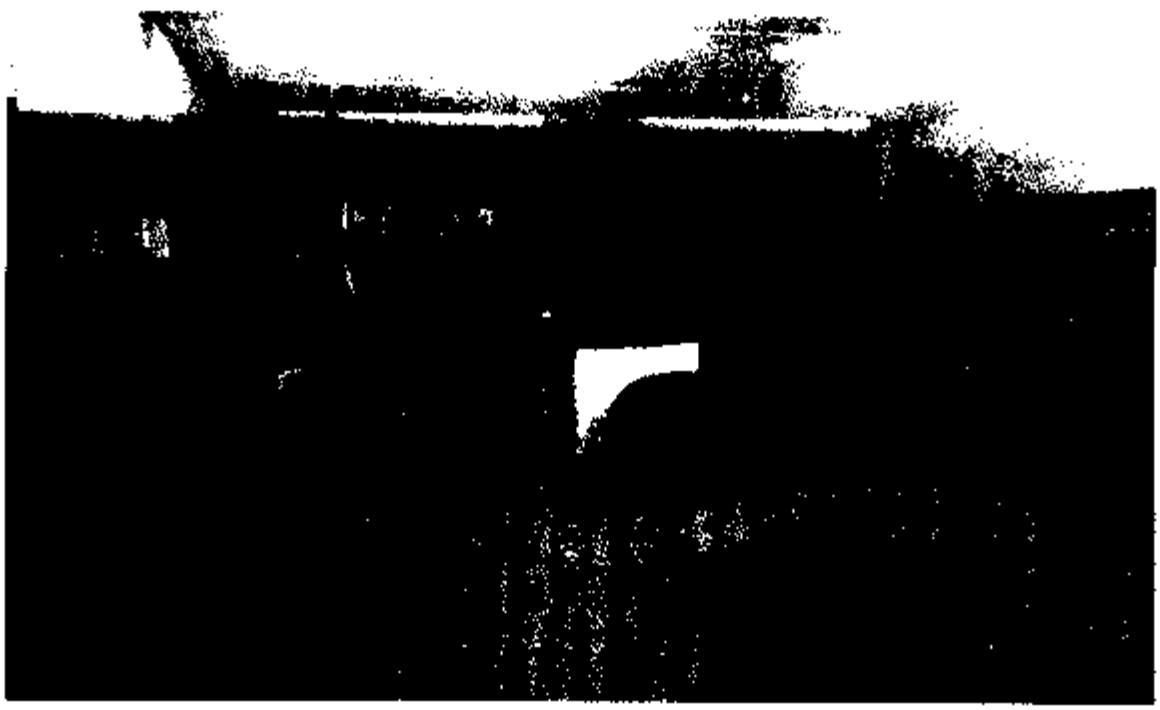

Photo #4: Converted IFR used as Mobility Area.

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Photo #5: Converted IFR facing east.

Photo #6: Converted IFR observation deck

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Photo #7: Classroom.

Photo #8: Mechanical room showing the common return air plenum.

Photo #9: Kitchen.

Photo #10: Rear of the Armory.

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI June 10, 2002

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive Non-Responsive, MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Louisville, MS Indoor Firing Range wipe sample results.

1. References.

a. 385-10, Army Safety Program

b. All States (Log Number P01-0075) Army National Guard (ARNG) Safety and Occupational Health Program -- POLICY AND RESPONSIBILITIES FOR INSPECTION, EVALUATION AND OPERATION OF ARMY NATIONAL GUARD INDOOR FIRING RANGES

c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

d. OSHA Standards 29 CFR (Code of Federal Regulations),1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations),1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range in Indianola, MS by Non-Responsive are enclosed.

3. Findings. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require further decontamination of the firing range in Louisville, MS.

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4. Recommendations.

a. Continue decontamination process until clearance sample meet the required standard. Use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be cleaned. If items stored in this location were not sampled, sample before removing from location (removal dependent on sampling results).

ii. determining acceptance of ranges after clean-up and/or decontamination of a range.

b. Closely follow all recommendations in Ref. 1. b. when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust.

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

4. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive [redacted]

Non-Responsive [redacted]

Regional Industrial Hygienist

ENCL.
as

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 10, 2002

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: Non-Responsive
FAX [redacted]

RE: Louisville, MS

Order No.: 0205124

Dear Non-Responsive

Analytical Environmental Servs, Inc. received 20 samples on 5/4/02 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.
NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.
AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.
These results relate only to the items tested.
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive
[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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0205124

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)	Point of Contact (name/AUTOVON)
NGB-AVN-SI 510 PLAZA DR SUITE 1530 COLLEGE PARK. GA 30349	Non-Responsive

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	02	

Samples Collected By	Date Collected	Date Shipped
Non-Responsive	25 APRIL 2002	30 APRIL 2002

Description of Operation	Location (BLDG/AREA)
LEAD SAMPLING OF INDOOR FIRING RANGE	TRP A 98th CAV LOUISVILLE, MS.

Associated Complaints (be specific)

NONE

Associated Air Samples — If yes, list sample numbers

☐ Yes ☒ No

Label Information

Trade Name	Mfr	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired

LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
001	1	BOTTOM LEFT WALL		
002	2	CENTER LEFT WALL		
003	3	TOP LEFT WALL		
004	4	Top Left Bullet Stop End		
005	5	Middle Bullet Stop End		
006	6	Bottom Right Bullet Stop End		
007	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Procedures Performed — Comments:

A. GIEN
5/4/02
12:30

0205124

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
02

ARLOC

Samples Collected by
[redacted] Non-Responsive

Date Collected
25 APRIL 2002

Date Shipped
30 APRIL 2002

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
TRP A 98th CAV
LOUISVILLE, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name	Mfr	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
008	8	Middle Right Wall		
009	9	Bottom Right Wall		
010	10	Bottom Rear Wall		
011	11	MIDDLE FLOOR		
012	12	Top Rear Wall		
013	13	Floor Right Bullet Stop		
014	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Inst (Indicate)	Reviewed By (Indicate)	Date Received	Date Reported

Procedures Performed **Comments:**

A Green
5/4/02
12:30

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0205124

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive

Sampled Installation	Project Number	ARLOC
INDOOR FIRING RANGE	02	

Samples Collected By	Date Collected	Date Shipped
[redacted] Non-Responsive	25 APRIL 2002	30 APRIL 2002

Description of Operation: LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA):

Associated Complaints (be specific): NONE

Associated Air Samples: ☐ Yes ☒ No

If yes, list sample numbers:

Label Information

Trade Name	Mfr	Manufacturer

Address:

MSDS Attached: ☐ Yes ☐ No

Analysis Desired: LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
015	15	Floor Left Rear Wall		
016	16	Ceiling Left Bullet Stop		
017	17	Ceiling Center		
018	18	Ceiling Right Rear Wall		
-019	21			

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Procedures Performed: Comments:

A. Gen
5/14/02
12:30

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client NGB

Date and Time 5/4/02 12:30

Work Order Number 0205124

Received by Non-Responsive [redacted]

Checklist completed by Non-Responsive [redacted] (Signature) 5/4/02 (Date)

Reviewed by Non-Responsive [redacted] (Initials) 5/6/02 (Date)

Carrier name: USMAIL

	Yes	No	Not Present
Shipping container/cooler in good condition?	✓		
Custody seals intact on shipping container/cooler?			✓
Custody seals intact on sample bottles?			✓
Chain of custody present?	✓		
Chain of custody signed when relinquished and received?		✓	
Chain of custody agrees with sample labels?	✓		
Samples in proper container/bottle?	✓		
Sample containers intact?	✓		
Sufficient sample volume for indicated test?	✓		
All samples received within holding time?	✓		
Container/Temp Blank temperature in compliance?	✓		

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? ~~Yes~~ ~~No~~ NA

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: * no TAT * Two blanks samples submitted but not on COC. Per client history, analyze the blank samples and proceed with a standard TAT.

Corrective Action

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Analytical Environmental Servs, Inc.

Date: 5/10/02

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT:	National Guard Bureau Region-South IH	**Lab Order:**	0205124
Project:	Louisville, MS	**Date Received:**	5/4/02 12:30:00
Project No:	Louisville MS	**Matrix:**	Wipe
PO No:		**Analyst:**	Non-Responsive [redacted]

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0205124-001A	1	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-002A	2	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-003A	3	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-004A	4	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-005A	5	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-006A	6	255	µg, Total	20.0	1	4/25/02	5/9/02
0205124-007A	7	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-008A	8	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-009A	9	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-010A	10	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-011A	11	60.0	µg, Total	20.0	1	4/25/02	5/9/02
0205124-012A	12	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-013A	13	260	µg, Total	20.0	1	4/25/02	5/9/02
0205124-014A	14	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-015A	15	26.0	µg, Total	20.0	1	4/25/02	5/9/02
0205124-016A	16	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-017A	17	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-018A	18	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-019A	BLANK 1	BRL	µg, Total	20.0	1	4/25/02	5/9/02
0205124-020A	BLANK 2	BRL	µg, Total	20.0	1	4/25/02	5/9/02

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG April 6, 2013

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Supervisor MS ARNG McComb Armory, 319 West Avenue North, McComb, Mississippi, 39209.

Thru: Non-Responsive DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG McComb Armory, McComb, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1998.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. USAEHA TG-141, January 2007, Guidelines for Air Sampling and Bulk sample Collection. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and follow up industrial hygiene sampling at the MS ARNG , McComb Armory McComb, Mississippi.

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SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG McComb Armory, McComb, Mississippi.

3. Findings: The information that follows is based on the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. .

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2013. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2014 IHIP.

b. Have all HHIM data entered into the HHIM computer module.

c. Use the report to help in correcting all deficiencies noted.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the State Occupational Health Office for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of AR ARNG. If additional information is needed please contact Non-Responsive [redacted] Regional Industrial Hygienist, Non-Responsive [redacted] Non-Responsive [redacted].

Non-Responsive [redacted]
Regional Industrial Hygienist

CF:
Non-Responsive [redacted] State Safety Manager, 1410 Riverside Dr, Jackson, MS 39202.
State Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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MISSISSIPPI ARMY NATIONAL GUARD
(MS ARNG)

McCOMB ARMORY
319 WEST AVENUE NORTH
McCOMB, MISSISSIPPI 39648

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MS ARNG)

At
McComb Army National Guard Armory
319 West Avenue North
McComb, Mississippi 39648

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

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- Ventilation Survey.....Page 4
- General Overview of the Armory.....Page 4
- Wipe Samples (Lead).....Page 5

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RECOMMENDATIONS.....Page 7

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APPENDICES

A. REFERENCES
B. ILLUMINATION SURVEY
C. VENTILATION SURVEY
D. LEAD WIPE SAMPLE WORKSHEETS, DIAGRAMS, RESULTS
E. PHOTOGRAPH INDEX AND PHOTOGRAPHS
F. NGB DESIGN GUIDE 415-2, TABLE 8, ELECTRICAL REQUIREMENTS
G. HHIM REPORT FORM AND EMPLOYEE ROSTER

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SUBJECT:
Industrial Hygiene Survey of the Mississippi Army National Guard Armory, located in McComb, Mississippi.

BACKGROUND:

Introduction:
At the request of Non-Responsive of the Army National Guard Bureau Region South Industrial Hygiene Office, an Industrial Hygiene Survey was conducted for the Mississippi Army National Guard's Armory, located in McComb, Mississippi. Non-Responsive Non-Responsive, dba HINCHCO, conducted the Industrial Hygiene Survey on 05 February 2013. It was unknown when the last Industrial Hygiene was conducted for the Armory.
The main Point of Contact for the survey was Non-Responsive Non-Responsive, the Armory Manager. He can be reached telephonically at Non-Responsive.

Site Description:
The McComb Armory is located at 319 West Avenue North in McComb, Mississippi. The armory is constructed of masonry and has a steel roof over the drill floor area. The building was constructed in 1954 and has approximately 21,210 square feet of useable area.
The building is occupied by sixteen (16) fulltime employees ranging from unit personnel to recruiters. The unit personnel belong to HQ, 1-155 CAB and HHC, 1-155 CAB.

Scope of Work:
The Industrial Hygiene Survey conducted at the MS ARNG Armory consisted of an Illumination Survey, Ventilation Survey of the building, Lead Wipe Testing, detection of water leaks, mold/mildew build-up, and the general condition of the facility. Interviews with the Armory Manager and several of the employees housed in the Armory was accomplished to determine if there were any occupational health, industrial hygiene , or safety concerns that should be addressed in this report.

Methodology:

An Illumination Survey was completed for the entire Armory. Emphasis was placed on inhabited areas and areas that are depicted in NGB's Design Guide 415-2, Table 8, Electrical Requirements. The Illumination Diagram is located in Appendix B of this report. The chart depicting the average illumination in the Armory Areas is located in the Illumination Section of this report.

The Armory was not noise hazardous and no machinery or equipment required testing for noise levels above 85dBa.

A Ventilation Analysis was conducted throughout the Armory. The results of this survey are located in Appendix C of this report.

Lead Wipe Samples were taken on the Drill Floor, in the Arms Vault, the converted Firing Range, and in the Kitchen. Results along with all pertinent information regarding the wipe protocol is located in Appendix D of this report.

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FINDINGS:

The main Point of Contact (POC) during the Industrial Hygiene Survey was Non-Responsive. He can be reached telephonically at 601-6847133.

ILLUMINATION SURVEY:

An Illumination Survey was conducted throughout the McComb Armory. Emphasis was placed on areas that were inhabited on a regular basis. Emphasis was also placed on areas that are depicted in NGB Design Guide 415-2, Table 8, Electrical Requirements (copy of Table 8 is located in Appendix F of this report). All measurements were recorded in foot-candles, within the proper range, in accordance with the type illumination present, on work surfaces, and approximately four (4') feet from the floor.

An Extech Heavy Duty Light Meter, Serial Number L631426, and a Calibration Date of 12 June 2012, was utilized for the illumination recordings.

FINDINGS:

The Chart below depicts the average illumination readings/recordings for the area surveyed. Consideration was taken for the actual placement of the work stations in a particular area. For actual recordings, where more than one recording was taken, refer to the diagram in Appendix B of this report.

LOCATION	FOOT-CANDLES RECORDED	STANDARD PER NGB DG 415-2	STD. MET?
RM 101 OFC	75	50	YES
RM 102 OFC	62	50	YES
RM 103 OFC	80	50	YES
RM 105 CONF. RM	73	50	YES
RM 107 OFC	122	50	YES
RM 108 MAIL RM	108	50	YES
RM 109 OFC	70	50	YES
RM 110 MECH	57	30	YES
RM 111 OFC	55	50	YES
RM 112 OFC	80	50	YES
RM 113 OFC	86	50	YES
RM 114 OFC	55	50	YES
RM 118 CLASSROOM	69	50	YES
RM 119 CLASSROOM	78	50	YES
RM 120 OFC	76	50	YES
RM 121 OFC	78	50	YES
RM 123 OFC	68	50	YES
RM 124 OFC	108	50	YES
RM 125 OFC	72	50	YES
RM 127 OFC	85	50	YES
RM 129 SUPPLY	69	40	YES
RM 131 SUPPLY	27	40	NO
RM 135 KITCHEN	77	50	YES
RM 136 SCULLERY	58	50	YES
RM 137 GYM	111	50	YES
RM 138 STORAGE	61	20	YES
DRILL FLOOR	10	50	NO

DRILL FLOOR: TOTAL OF 21 LIGHTS - SEVEN (7) OPERATIONAL
SUPPLEMENTAL ILLUMINATION REQUIRED IN RM 131, SUPPLY

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Overall, the Illumination throughout the McComb Armory meets or exceeds the standard as set forth in NGB Design Guide 415-2, Table 8, Electrical Requirements. The Illumination Rehab at the Armory was quite successful.

VENTILATION SURVEY:

FINDINGS:

A Ventilation survey was conducted at the Armory. Particular attention was paid to Indoor Air Quality throughout the Armory. The main concern was that temperature, relative humidity/dew point, and carbon dioxide levels were in a range that would prohibit the growth of mildew or mold and demonstrate a lack of carbon monoxide build-up (CO_2 as the determinant).
The chart located in Appendix C of this report shows the readings throughout the key areas of the Armory.
There were no areas that demonstrated a problem with CO_2, relative humidity, or temperature.
Measurements were taken with a SUPCO IAQ55 Indoor Air Quality Meter, Serial # 9923463, and a Calibration Date of 05 JAN 13.

GENERAL OVERVIEW OF THE ARMORY:

FINDINGS:

The McComb Armory was built in 1954. It is quite obvious that there have been a few renovations since its inception. The illumination is, overall, excellent. The indoor firing range has been cleaned and converted to a storage area. The illumination in the drill floor area requires some attention. The inoperable lights should be either replaced or one needs to determine why they are not illuminating.
There were no signs of any mold or mildew. The IAQ survey indicated the conditions for successful mold/mildew growth is not present.
There were areas that indicated roof leakage (see photographs). A roofing contractor was hired and the roof leakage is supposedly stopped. The next rain will determine if the repairs were successful.
Lead wipe samples were taken on the Drill Floor, Armament Vault, Kitchen, and the converted Indoor Firing Range.
One can readily see the employees of the armory take great pride in the housekeeping of their workplace. There was no debris, FOD, or clutter in the armory.

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LEAD WIPE SAMPLING:

FINDINGS:

A total of thirty-one (32) Lead Wipe Samples were taken in the McComb Armory.

Twelve (12) were taken on the Drill Floor, ten (10) were taken in the Arms Vault, seven (7) were taken in and around the converted Indoor Firing Range, and three (3) were taken in the Kitchen area.

None of the 31 samples breached the action level of 200ug/sq.ft.

All samples with the exception of the arms vault samples (13M - 21M) indicated below the reporting limit of 20 ug/sq.ft.

Samples within the Arms Vault ranged from a low of 35 ug/sq.ft. to a high of 72 ug/sq.ft.

The submission memorandum, Chain of Custody Forms, Lead Wipe Spreadsheets, and Diagrams depicting the lead wipe locations are located in Appendix D of this report.
The Kitchen lead wipe locations are numbered on the photographs in Appendix E of this report.

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EXECUTIVE SUMMARY

ITEM: ILLUMINATION SURVEY
FINDINGS:
Overall, the Illumination is excellent throughout the McComb Armory. The only areas that did not meet the NGB DG 415-2 standards were the Drill Floor and the Supply Area. (RAC 4)

ITEM: VENTILATION SURVEY
FINDINGS:
The Ventilation Survey conducted throughout the Armory demonstrated an Indoor Air Quality that is not conducive to mold and mildew development/growth. There was no higher than usual readings of Carbon Dioxide.
There were no signs of mold or mildew development.
There were a few areas where the roof was leaking but has since been repaired. (RAC 4)

ITEM: LEAD WIPE SAMPLING
FINDINGS:
All of the lead wipes taken in the Arms Vault indicated the presence of lead. There were no results close to reaching or breaching the 200 ug/sq.ft. action level.
All other lead wipe testing fell below the 20 ug/sq.ft. reporting level. (RAC 4)

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RECOMMENDATIONS

ITEM: ILLUMINATION Survey
RECOMMENDATIONS:
The Supply area illumination is well below the 40 foot-candle requirement (27 foot-candles recorded). Recommend placing higher wattage bulbs in the supply area to enhance illumination. The Drill Floor is well below the recommended 50 foot-candle requirement (10 foot-candles recorded). There are seven lights operational out of a total of twenty-one. A work-order should be established to determine if the bulbs are burned out or if the illumination system is malfunctioning. (RAC 4)

ITEM: VENTILATION SURVEY
RECOMMENDATIONS:
Continue to monitor the temperature, relative humidity, and dew-point to ensure good quality Indoor Air Quality. Be ever vigilant of any water leaks and formation of mold or mildew. (RAC 4)

ITEM: LEAD WIPE TESTS
RECOMMENDATIONS:
Have the MS ARNG Industrial Hygiene Technician re-wipe the Arms Vault in a year to ensure no lead presence is approaching the 200 ug/sq.ft. action level. (RAC 4)

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APPENDIX A

REFERENCES

a. Army Regulation 11-34, The Army Respiratory Protection Program, 15 February 1990.

b. Army Regulation 40-5, Medical Service, Preventative Medicine, 22 July 2005.

c. Army Regulation 385-10, Army Safety Program, 29 February 2000.

d. Department of the Army Pamphlet 40-501, Hearing Conservation, 10 December 1998.

e. National Guard Regulation 385-10, Army National Guard Safety Program, 12 September 2008.

f. Department of Defense Instruction 6055.1 Department Defense Occupational Safety and Health (OSH) Program, 26 October 1986, with update dated 19 August 1998.

g. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

h. TB MED 503, The Army Industrial Hygiene Program, 1 February 1985.

i. Technical Guide 040, Noise Hazard Evaluation/Sound Level Data of Noise Sources.

j. USAHA TG-141, Guidelines for Air Sampling and Bulk Sample Collection, 25 MAY 2010.

k. Army National DG 415-2, Logistics Facilities Design Guide, Table 8, Electrical requirements, pgs. 53-55 Dated 01 June 2011.

l. Army National Guard DG 415-3, Aviation Facilities Design Guide, Table 8, Electrical Requirements, pgs. 39-41, Dated 01 June 2011.

m. Life Safety Code Handbook, Eighth Edition, National Fire Protection Association, Quincy, Massachusetts, July 2012.

n. National Electric Code Handbook, 2008 Edition, National Fire Protection Association, Quincy, Massachusetts.

o. IES Lighting Handbook, Application Volume, Illumination Engineering Society of North America, 2011.

p. Industrial Ventilation, 26th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

q. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2011, American Conference of Industrial Hygienists, Cincinnati, Ohio.

r. Title 29, Code of Federal Regulations, Part 1910, Occupational Safety and Health Standards, rev. 2009.

s. NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, September 2008.

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APPENDIX B
ILLUMINATION SURVEY
WORKSHEET

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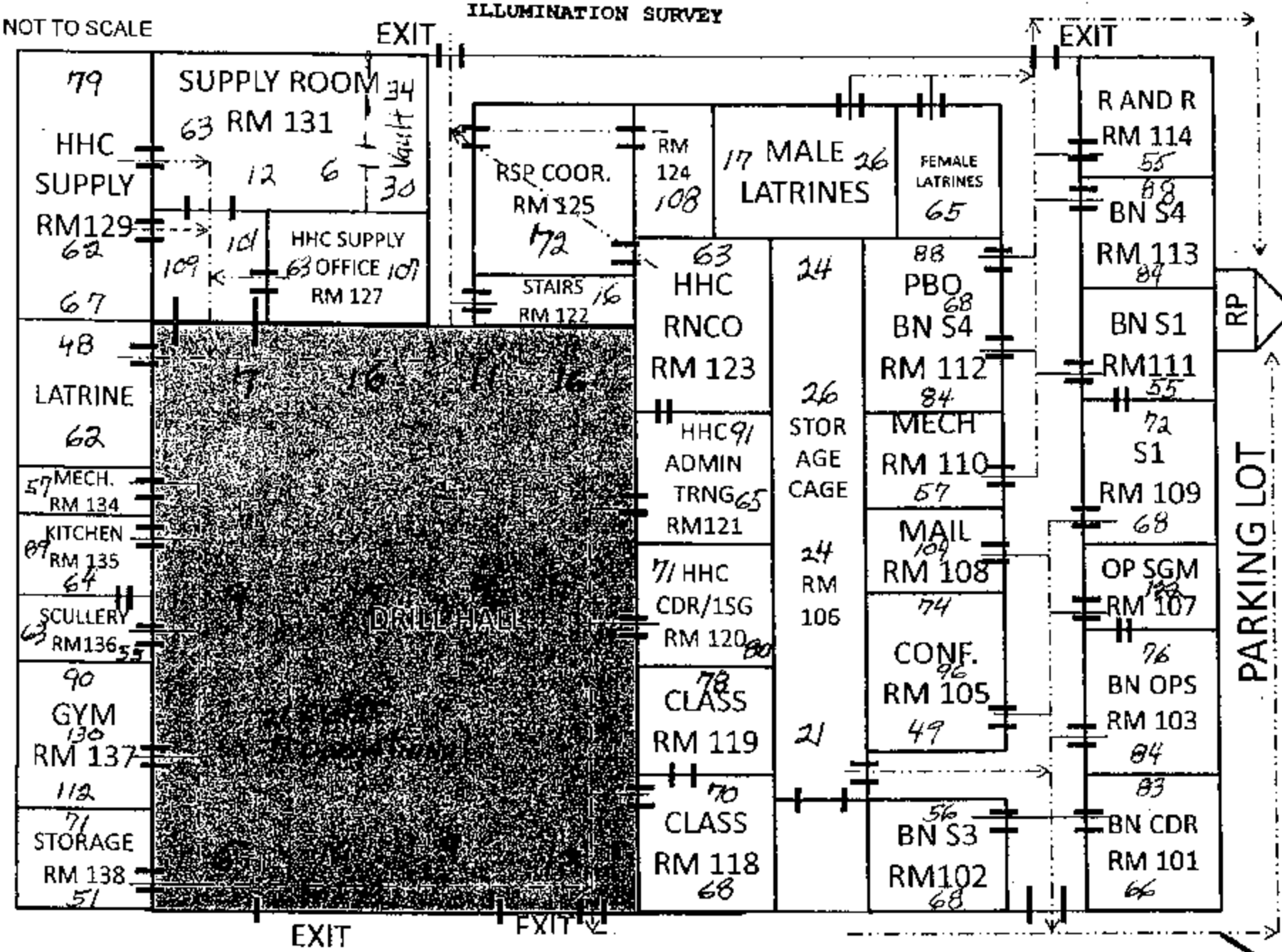
McCOMB ARMORY
ILLUMINATION SURVEY

MAP NOT TO SCALE



04 FEBRUARY 2013
ALL MEASUREMENTS IN FOOT-CANDLES
CLOUDY OVERCAST DAY

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APPENDIX C
VENTILATION SURVEY
CHART

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VENTILATION CHART

THE CHART BELOW DEPICTS THE AREAS WHERE TEMPERATURE, RELATIVE HUMIDITY, AND CO2 (IN PPM) WERE RECORDED WITHIN THE McCOMB ARMORY.

THE OUTSIDE AMBIENT READINGS WERE:
CO2ppm = 427
TEMPERATURE = 55 deg F
RELATIVE HUMIDITY = 37%

BUILDING RECORDINGS

LOCATION	CO2 (ppm)	TEMP (F)	HUMIDITY (%)
KITCHEN ROOM 135	477	64	39
SCULLERY ROOM 136	481	66	40
HHC CMDR ROOM 120	609	64	40
MAIL ROOM ROOM 108	487	65	43
STORAGE ROOM 106	436	62	39
R AND R ROOM 114	472	66	43
BN CMDR ROOM 101	444	66	49

READING OF CARBON DIOXIDE BELOW 1000 PARTS PER MILLION ARE IDEAL.

TEMPERATURE READINGS RANGING FROM 62F TO 76F ARE RECOMMENDED.

RELATIVE HUMIDITY RANGING FROM 30% TO 60% ARE WITHIN STANDARDS.

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APPENDIX D
LEAD WIPE SAMPLES, WORKSHEETS, DIAGRAMS, AND RESULTS

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TO:
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA,GEORGIA 30340-3704

FROM:
Non-Responsive
DBA HINCHCO
18 BOAT COURT
PLACIDA, FLORIDA 33946

RE:
LEAD WIPE SAMPLES FROM MISSISSIPPI ARMY NATIONAL GUARD (MSARNG) ARMORYS (McCOMB, GLOSTER, AND NEW HAVEN)

GENTLEMEN:
PLEASE FIND ENCLOSED LEAD WIPE SAMPLES FOR THE ABOVE MENTIONED MS ARNG ARMORYS.
I HAVE ENCLOSED YOUR CHAIN OF CUSTODY FORMS AND MY SPREADSHEETS FOR THE ARMORYS ALONG WITH THE SAMPLES.
EACH PACKET (INDIVIDUAL ARMORYS) HAS THIS MEMORANDUM AND THEIR RESPECTIVE SPREADSHEETS.
INVOICING SHOULD GO TO NGB INDUSTRIAL HYGIENE SOUTH, COLLEGE PARK, GA AS PER BPA AGREEMENT.
IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME TELEPHONICALLY AT Non-Responsive OR E-MAIL: Non-Responsive
PLEASE SEND THE RESULTS VIA THE E-MAIL ABOVE.

Sincerely,
Non-Responsive

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Boat Court
Placida, FL 33946

Contact: [redacted]
Phone:
e-mail:
Fax:

Project Name/#: MS ARNG McComb Armory
Samplers Name: [redacted]
Sampling Date: 04 FEB 12

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00M	Blank								Lead
01M	Drill Floor								
02M	Drill Floor								
03M	Drill Floor								
04M	Drill Floor								
05M	Drill Floor								
06M	Drill Floor								
07M	Drill Floor								
08M	Drill Floor								
09M	Drill Floor								
10M	Drill Floor								
11M	Drill Floor								
12M	Drill Floor								
13M	Arms Vault								
14M	Arms Vault								
15M	Arms Vault								
16M	Arms Vault								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB Industrial Hygiene Region South, College Park, GA – BPA agreement

Relinquished By:		Date/Time	
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Beat Court
Placida, FL

Contact: [redacted]
Phone:
email:

Project Name/#: MSARNG McComb Armory
Samplers Name: [redacted]
Sampling Date: 04 Feb 19

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME		FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	INITIAL	FINAL	AVG		
17M	Arms Vault								Lead
18M	Arms Vault								
19M	Arms Vault								
20M	Arms Vault								
21M	Arms Vault								
22M	Arms Vault								
23M	Firing Range								
24M	Firing Range								
25M	Firing Range								
26M	Firing Range								
27M	Firing Range								
28M	Firing Range ext. Threshold								
29M	Hallway Intersection								
30M	Kitchen, Top Ice Maker								
31M	Kitchen, Top Cabinet								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB IH South, College Park, GA - BPA Agreement

Relinquished By:		Date/Time	
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☐
Method of Shipment:
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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WIPE SAMPLE SPREADSHEET FOR
MS ARNG, McCOMB ARMORY

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
04 FEB 13	00M	BLANK	LEAD
04 FEB 13	01M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	02M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	03M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	04M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	05M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	06M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	07M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	08M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	09M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	10M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	11M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	12M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	13M	ARMS VAULT	LEAD
04 FEB 13	14M	ARMS VAULT	LEAD
04 FEB 13	15M	ARMS VAULT	LEAD
04 FEB 13	16M	ARMS VAULT	LEAD
04 FEB 13	17M	ARMS VAULT	LEAD
04 FEB 13	18M	ARMS VAULT	LEAD
04 FEB 13	19M	ARMS VAULT	LEAD
04 FEB 13	20M	ARMS VAULT	LEAD
04 FEB 13	21M	ARMS VAULT	LEAD
04 FEB 13	22M	ARMS VAULT	LEAD
04 FEB 13	23M	FIRING RANGE	LEAD

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04 FEB 13	24M	FIRING RANGE	LEAD
04 FEB 13	25M	FIRING RANGE	LEAD
04 FEB 13	26M	FIRING RANGE	LEAD
04 FEB 13	27M	FIRING RANGE	LEAD
04 FEB 13	28M	FIRING RANGE EXTERIOR THRESHOLD	LEAD
04 FEB 13	29M	HALLWAY INTERSECTION	LEAD
04 FEB 13	30M	KITCHEN, TOP OF ICE MACHINE	LEAD
04 FEB 13	31M	KITCHEN, TOP OF KITCHEN CABINET	LEAD

ALL WIPE SAMPLES WERE TAKEN WITH A 12" X 12" (1 SQ.FT.) TEMPLATE.

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM.

FIRING RANGE HAS BEEN CLEANED AND IS CURRENTLY UTILIZED FOR SUPPLY STORAGE

SEE ATTACHED DIAGRAM FOR WIPE SAMPLE COLLECTION AREAS

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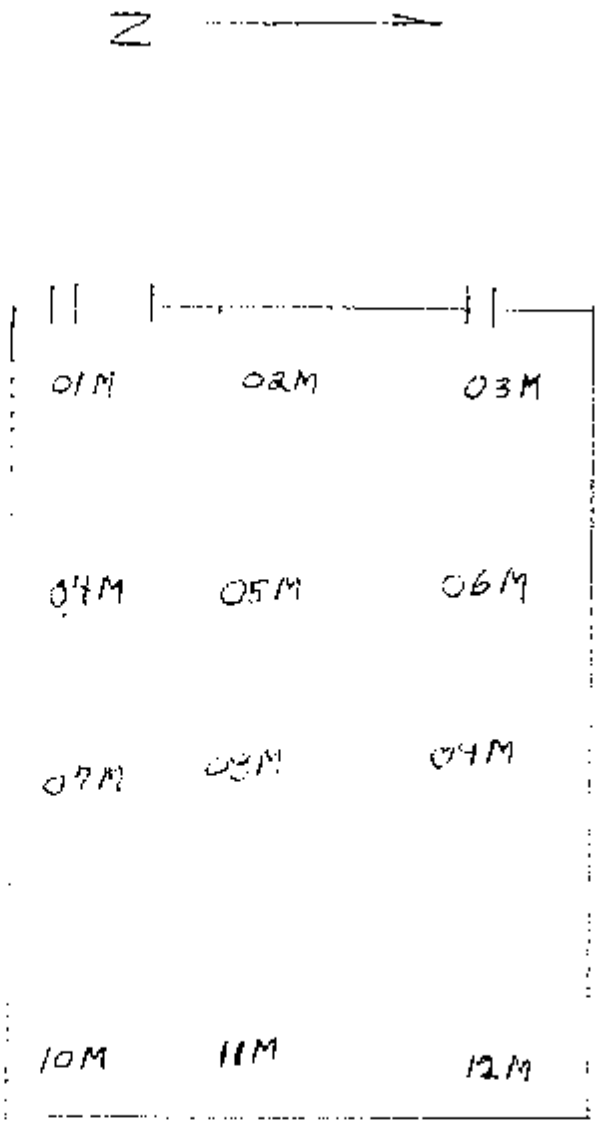
McCOMB ARMORY
DRILL FLOOR
LEAD WIPE LOCATIONS
4 FEBRUARY 2013



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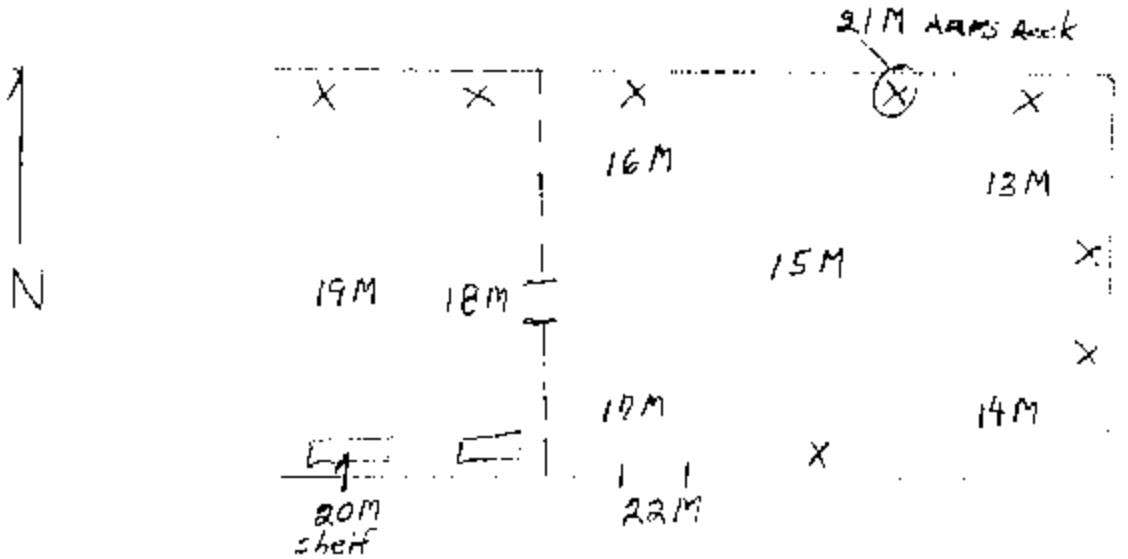
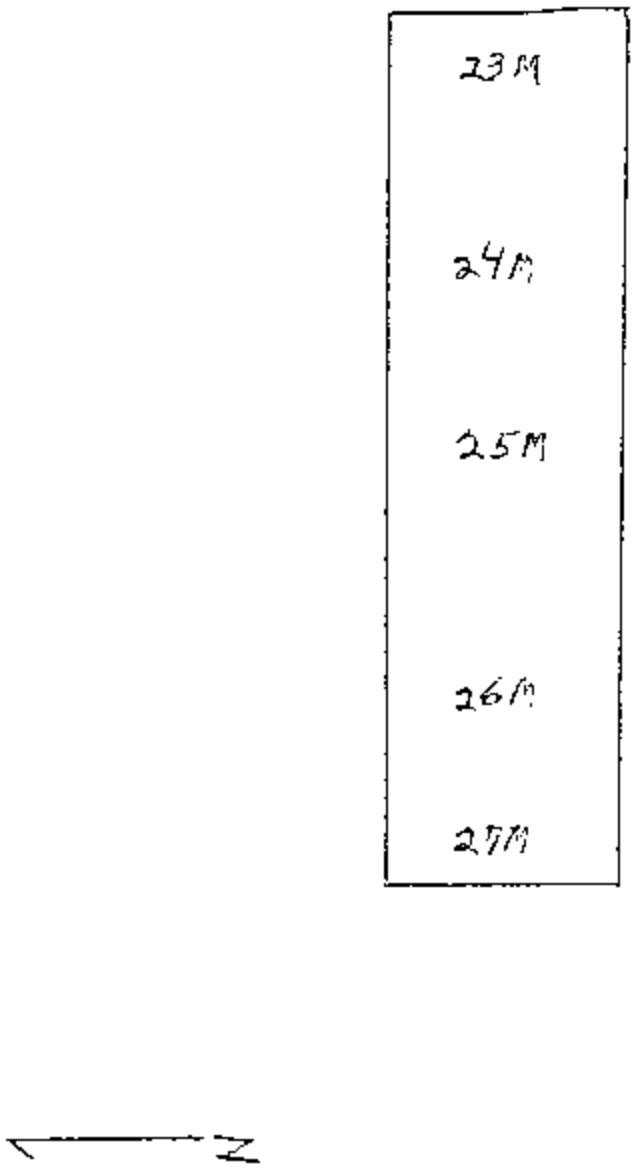
McCOMB ARMORY
ARMS VAULT
LEAD WIPE LOCATIONS
4 FEBRUARY 2013



McCOMB ARMORY
SUPPLY STORAGE
(OLD FIRING RANGE)
LEAD WIPE LOCATIONS

4 FEBRUARY 2013



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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

February 20, 2013

Non-Responsive [redacted]
PO BOX 3083
Placida FL 33946

TEL: Non-Responsive [redacted]
FAX:

RE: MS ARANG McCamb Armory

Dear Non-Responsive [redacted]

Order No: 1302886

Analytical Environmental Services, Inc. received 32 samples on 2/11/2013 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive [redacted]

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Hinchco Work Order Number 1302886

Checklist completed by Non-Responsive [redacted] 2/12/13
Sig[redacted]ate

Carrier name: FedEx __ UPS ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? 2/12/13 Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc

Date: 20-Feb-13

Lab Order: 1302886
Client: HINCHCO
Project: MS ARANG McCamb Armory
Matrix: Bulk
Date Received: 2/11/2013 10:20:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1302886-001A	00M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-002A	01M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-003A	02M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-004A	03M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-005A	04M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-006A	05M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-007A	06M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-008A	07M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-009A	08M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-010A	09M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-011A	10M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-012A	11M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-013A	12M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-014A	13M	68	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-015A	14M	43	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-016A	15M	50	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-017A	16M	60	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-018A	17M	46	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-019A	18M	42	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-020A	19M	35	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-021A	20M	71	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-022A	21M	72	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-023A	22M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-024A	23M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-025A	24M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-026A	25M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-027A	26M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-028A	27M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-029A	28M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-030A	29M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-031A	30M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA
1302886-032A	31M	BRL	µg/ft²	20	1		02/04/2013	02/14/2013	TA

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

Results are blank corrected where applicable

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau

Client: HINCHCO
Project Name: MS ARANG McCamb Armory
Workorder: 1302886

ANALYTICAL QC SUMMARY REPORT

BatchID: 172426

Sample ID: MB-172426 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238446
SampleType: MBLK | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172426 | Analysis Date: 02/14/2013 | Seq No: 4992392

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-172426 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238446
SampleType: LCS | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172426 | Analysis Date: 02/14/2013 | Seq No: 4992395

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	843.6	20	875	0	96.4	80	120	0	0	0	

Sample ID: LCSD-172426 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238446
SampleType: LCSD | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172426 | Analysis Date: 02/14/2013 | Seq No: 4992398

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	747.0	20	875	0	85.4	80	120	843.6	12.1	25	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

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May, 2018

Client: HINCHCO
Project Name: MS ARANG McCamb Armory
Workorder: 1302886

ANALYTICAL QC SUMMARY REPORT

BatchID: 172451

Sample ID: MB-172451 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238457
Sample Type: MBLK | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172451 | Analysis Date: 02/14/2013 | Seq No: 4992515

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	BRL	20	0	0	0	0	0	0	0	0	

Sample ID: LCS-172451 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238457
Sample Type: LCS | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172451 | Analysis Date: 02/14/2013 | Seq No: 4992516

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	755.3	20	875	0	86.3	80	120	0	0	0	

Sample ID: LCSD-172451 | Client ID: | Units: ug, Total | Prep Date: 02/14/2013 | Run No: 238457
Sample Type: LCSD | TestCode: LEAD ON WIPES (N9102/N7082) | BatchID: 172451 | Analysis Date: 02/14/2013 | Seq No: 4992517

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Lead	779.3	20	875	0	89.1	80	120	755.3	3.12	25	

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

1302886

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Bart Court
Placida, FL 33946

Contact: [redacted]
Phone:
e-mail:

Project Name/#: MS ARNG McComb Armory
Samplers Name: [redacted]
Sampling Date: 04 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00M	Blank								Lead
01M	Drill Floor								
02M	Drill Floor								
03M	Drill Floor								
04M	Drill Floor								
05M	Drill Floor								
06M	Drill Floor								
07M	Drill Floor								
08M	Drill Floor								
09M	Drill Floor								
10M	Drill Floor								
11M	Drill Floor								
12M	Drill Floor								
13M	Arms Vault								
14M	Arms Vault								
15M	Arms Vault								
16M	Arms Vault								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB Industrial Hygiene Region South, College Park, GA – BPA agreement

Relinquished By:	[redacted]	Date/Time	4 Feb 13 1295
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: USPS
Lab Recipient: PV
Date: 2/11/13 10:20

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

1302886

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: 18 Boat Court
Placida, FL

Contact: [redacted]
Phone:
Fax:

Project Name/#: MSARNG McComb Armory
Samplers Name: [redacted]
Sampling Date: 04 Feb 13

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
17M	Arms Vault								Lead
18M	Arms Vault								
19M	Arms Vault								
20M	Arms Vault								
21M	Arms Vault								
22M	Arms Vault								
23M	Firing Range								
24M	Firing Range								
25M	Firing Range								
26M	Firing Range								
27M	Firing Range								
28M	Firing Range ext. Threshold								
29M	Hallway Intersection								
30M	Kitchen, Top Ice Maker								
31M	Kitchen, Top Cabinet								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: NGB IH South, College Park, GA - BPA Agreement

Relinquished By:	[redacted]	Date/Time	7 Feb / 1245
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☐
Method of Shipment: UPS
Lab Recipient: [signature]
Date: 2/11/13 10:20

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

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WIPE SAMPLE SPREADSHEET FOR MS ARNG, McCOMB ARMORY

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
04 FEB 13	00M	BLANK	LEAD
04 FEB 13	01M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	02M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	03M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	04M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	05M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	06M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	07M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	08M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	09M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	10M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	11M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	12M	ARMORY DRILL FLOOR	LEAD
04 FEB 13	13M	ARMS VAULT	LEAD
04 FEB 13	14M	ARMS VAULT	LEAD
04 FEB 13	15M	ARMS VAULT	LEAD
04 FEB 13	16M	ARMS VAULT	LEAD
04 FEB 13	17M	ARMS VAULT	LEAD
04 FEB 13	18M	ARMS VAULT	LEAD
04 FEB 13	19M	ARMS VAULT	LEAD
04 FEB 13	20M	ARMS VAULT	LEAD
04 FEB 13	21M	ARMS VAULT	LEAD
04 FEB 13	22M	ARMS VAULT	LEAD
04 FEB 13	23M	FIRING RANGE	LEAD

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04 FEB 13	24M	FIRING RANGE	LEAD
04 FEB 13	25M	FIRING RANGE	LEAD
04 FEB 13	26M	FIRING RANGE	LEAD
04 FEB 13	27M	FIRING RANGE	LEAD
04 FEB 13	28M	FIRING RANGE EXTERIOR THRESHOLD	LEAD
04 FEB 13	29M	HALLWAY INTERSECTION	LEAD
04 FEB 13	30M	KITCHEN, TOP OF ICE MACHINE	LEAD
04 FEB 13	31M	KITCHEN, TOP OF KITCHEN CABINET	LEAD

ALL WIPE SAMPLES WERE TAKEN WITH A 12" X 12" (1 SQ.FT.) TEMPLATE.

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM.

FIRING RANGE HAS BEEN CLEANED AND IS CURRENTLY UTILIZED FOR SUPPLY STORAGE

SEE ATTACHED DIAGRAM FOR WIPE SAMPLE COLLECTION AREAS

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APPENDIX E

PHOTOGRAPH INDEX
AND
PHOTOGRAPHS

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PHOTOGRAPH INDEX

1. EAST SIDE (ENTRANCE)
2. SOUTH SIDE
3. WEST SIDE
4. NORTH SIDE
5. SUPPLY STORAGE (OLD FIRING RANGE)
6. THRESHOLD SUPPLY STORAGE AND HALL WAY INTERSECTION
7. ICE MAKER
8. KITCHEN CABINET (TOP WIPE)
9. KITCHEN
10. DRILL FLOOR
11. TYPICAL OFFICE
12. MAIN ENTRANCE HALLWAY (WATER LEAK)
13. RECRUITING OFFICE (WATER LEAK)

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MS ARNG McCOMB ARMORY PHOTOGRAPHS

#1 – EAST SIDE (ENTRANCE)

#2 – SOUTH SIDE

MS ARNG McCOMB ARMORY PHOTOGRAPHS

#3 – WEST SIDE

#4 – NORTH SIDE

MS ARNG McCOMB ARMORY PHOTOGRAPHS

#5 – SUPPLY STORAGE (OLD FIRING RANGE)

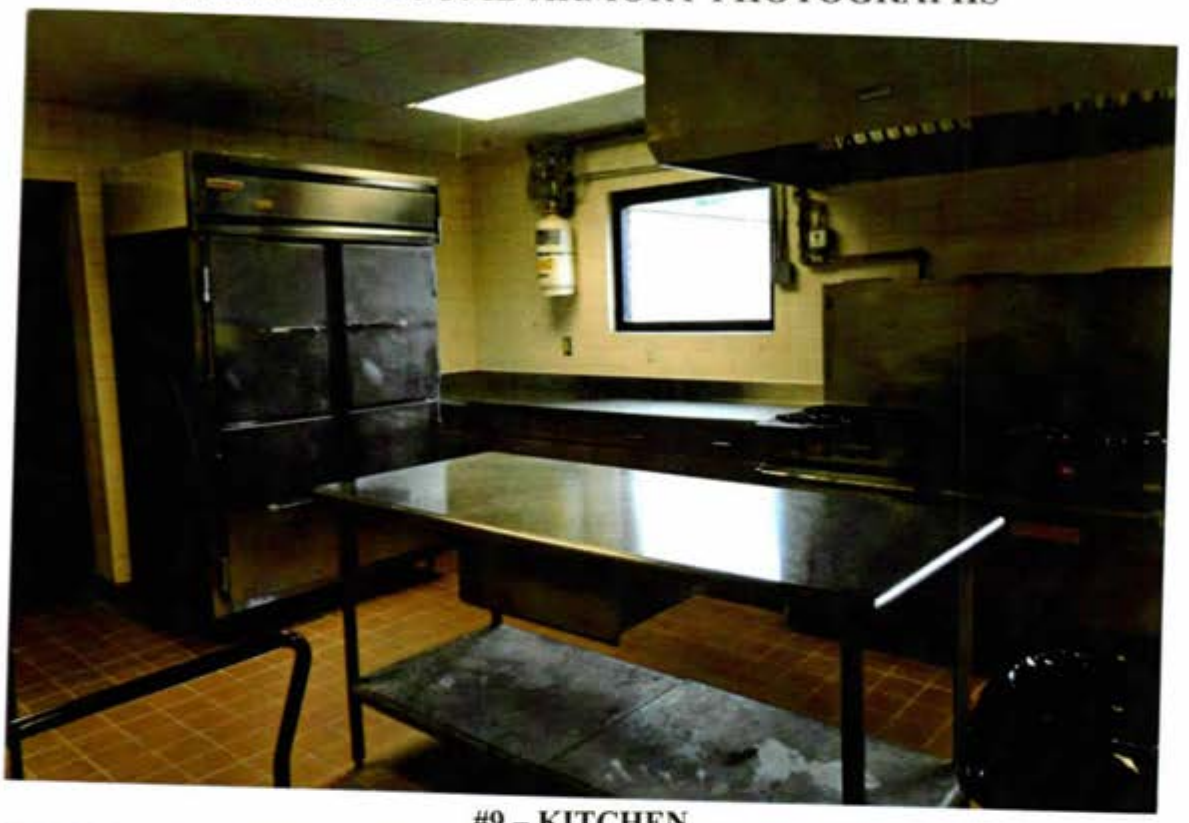
#6 – THRESHOLD SUPPLY AND INTERSECTION OF HALLWAYS

MS ARNG McCOMB ARMORY PHOTOGRAPHS

#7 – ICE MAKER

#8 – TOP, KITCHEN CABINET

MS ARNG McCOMB ARMORY PHOTOGRAPHS



#9 – KITCHEN

#10 – DRILL FLOOR

MS ARNG McCOMB ARMORY PHOTOGRAPHS

#11 – TYPICAL OFFICE

#12 – MAIN ENTRANCE HALLWAY (WATER LEAK)

MS ARNG McCOMB ARMORY PHOTOGRAPHS

#13 – RECRUITING OFFICE (WATER LEAK)

*****

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APPENDIX F
DESIGN GUIDE 415-2
TABLE 8, ELECTRICAL REQUIREMENTS

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ARMY NATIONAL GUARD
DG 415-2
LOGISTICS FACILITIES DESIGN GUIDE

NATIONAL GUARD BUREAU
INSTALLATIONS DIVISION
111 SOUTH GEORGE MASON DRIVE
ARLINGTON, VA 22204-1382

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Table 8. Electrical Requirements

	FUNCTIONAL AREA	LIGHTING	OUTLETS	NOTES
Office Areas				
1	General Supervisor	50 FC		1
2	Supervisor	50 FC		1
3	Production Controller	50 FC		1
4	Inspection and Library	50 FC		1
5	Automation Clerk	50 FC		1
6	Common IT Space	50 FC		2
7	IT Support Activities	50 FC		2
8	Classroom	70 FC		
Personnel Areas				
1	Toilet/Shower	30 FC		
2	Locker Room	30 FC		
3	Break Area	50 FC		
4	Physical Fitness Area	40 FC		2
Work Areas				
1	Tool Room	30 FC		
2	Supply Room	40 FC		
3	Battery Room	50 FC		4
4	Comm. & Electronic Shop	70 FC		2
5	Instrument Repair Shop	70 FC		2
6	Small Arms Repair Shop	70 FC		2
7	Small Arms Test Room	50 FC		2
8	Vault (Small Arms)	40 FC		
9	Vault (CBT Vehicle Arms)	40 FC		
10	Injector Test Room	70 FC		2
11	Fuel and Ignition Repair Shop	70 FC		2
12	BII Storage/Issue	30 FC		
13	Machine Shop	70 FC		2
14	Carpenter Shop	50 FC		2
15	Lumber Storage Shed	20 FC		

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Table 8. Electrical Requirements (Continued)

	FUNCTIONAL AREA	LIGHTING	OUTLETS	NOTES
16	Canvas Shop	50 FC		2
17	Missile Repair Shop	70 FC		2
18	Vault (Missile)	40 FC		
19	Calibration Room	70 FC		
20	Calibration Storage	30 FC		
21	Glass Repair Room	50 FC		2
22	Radiator Test & Repair Room	50 FC		2
23	COMSEC Repair Room	70 FC		2
24	Radiation Calibration Room	70 FC		
25	Bulk POL Storage for Lubricating Systems	30 FC		
26	Bulk POL Storage	30 FC		
27	Controlled Waste Handling	30 FC		
28	Bulky Equipment Storage	30 FC		
29	Flammable Materials Storage	30 FC		
30	Enclosed Unheated Storage	30 FC		
Work bays				
1	General Purpose Work bay	50 FC		2
2	Warm-Up Bay	50 FC		2
3	Welding Shop	50 FC		2
4	Wash Bay	50 FC		2
5	Paint Stripping Bay	50 FC		2
6	Paint Preparation Bay	50 FC		2
7	Paint Booth	50 FC		2
8	Engine/Transmission Test Cell	50 FC		2
9	Electronics Bay	50 FC		2
10	Body Shop	50 FC		2

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APPENDIX H
HEIM REPORT FORM
AND EMPLOYEE ROSTER

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HHIM Report Date: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART I)

Arloc Code: 28000
Building Number: McComb, MS
Location Code: AA
Operation Code: OTH
Survey Date: 4 February 2013

Installation: MS ARNG
Room Number: ARMORY
Location: Entire Bldg.
Operation: TRAINING

Organization/Unit:

Macom Code: NG
Submacom Code: ARNG
Supervisor: SFC Gregory Bennett
RAC: 4

Command: NGB
Submacom: MS ARNG
Phone: 601-684-7133
Frequency: 8 Hours/Day

Number of:
Military: 16
Civilians:
Contractors:
Others:

Staffing Data

Lab Hoods:
Open Surface Tanks:
Maintenance Bays:
Other:

Spray Booths/Hoods:
Vapor Degreasers:
Ventilation Units:

Operation Comments:

1. The McComb Armory is located in McComb, MS. Sixteen fulltime employees occupy the Armory.
2. Three units currently drill at the Armory.
3. An Illumination Survey indicated the Armory has excellent illumination in all parts except the Supply Area and the Drill Floor. Only 7 of 21 lights were operational on the Drill Floor.
4. It is quite apparent that the Armory has had more than one rehab since its inception.
5. The Indoor Firing Range has been converted to a storage area.
6. Lead Wipes were taken on the Drill Floor, Arms Vault, Kitchen, and the converted firing range area. All wipes taken in the Arms Vault indicated a presence of lead. There were no samples close to the 200 ug/sq.ft. action level.

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7. There were no complaints of indoor air quality by any of the armory employees. The IAQ (ventilation survey) indicated no problems with the HVAC system.
8. It is quite apparent the employees take great pride in keeping their Armory in excellent condition.

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Report Date: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART II)

Arloc Code: 28000
Building Number: McComb, MS
Location Code: AA
Operation Code: OTH
Survey Date: 4 February 2013

Installation: MS ARNG
Room Number: ARMORY
Location: Entire Bldg.
Operation: TRAINING

HAZARDS INVENTORY:

HAZARD	CAS CODE	PAC	EPC
LEAD	7439-92-1	3	A

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Report Date: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART III)

Arloc Code: 28000
Building Number: McComb, MS
Location Code: AA
Operation Code: OTH
Survey Date: 4 February 2013

Installation: MS ARNG
Room Number: ARMORY
Location: Entire Bldg.
Operation: Training

Personnel:

Last Name	First Name	MI	SSN	SEX	Category

ALL EMPLOYEES WORKING IN THE ARMORY (SEE EMPLOYEE ROSTER THIS APPENDIX)

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REPORT DATE: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART IV)

ARLOC CODE: 28000
BUILDING NUMBER: McComb. MS
LOCATION CODE: AA
OPERATION CODE: OTH
SURVEY DATE: 4 February 2013

INSTALLATION: MS ARNG
ROOM NUMBER: ARMORY
LOCATION: Entire Bldg.
OPERATION: TRAINING

/ ENGINEERING CONTROLS PRESENT /	EVALUATION /	UNIT CODE /

/ ENGINEERING CONTROLS REQUIRED /	STATUS /
ILLUM -	REC
LEAD -	REC

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REPORT DATE: 20 MARCH 2013

HHIM SURVEY SUMMARY REPORT (PART V)

ARLOC CODE: 28000
BUILDING NUMBER: McComb, MS
LOCATION CODE: AA
OPERATION CODE: OTH
SURVEY DATE: 4 February 2013

INSTALLATION: MS ARNG
ROOM NUMBER: ARMORY
LOCATION: Entire Bldg.
OPERATION: TRAINING

RESPIRATOR	R / U	MANUFACTURER	TC NUMBER
1/2 FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
ABRASIVE BLASTING HOOD			
AIRLINE			
DISPOSABLE			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
SELF CONTAINED			

BODY	R / U
APRONS	
COLD WEATHER CLOTHING	
COVERALLS	
FULL BODY SUIT	
HEAT REFLECTIVE VEST/SUIT	
SAFETY BELT/HARNESS	
SPECIAL PURPOSE CLOTHING	

GLOVES	R / U
ACID	
COLD SURFACES	
COTTON GLOVES	
HOT SURFACES	
NBC AGENTS	
OIL	
SOLVENTS	
SURGICAL GLOVES	

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EYES/FACE	R / U
CHEMICAL/SAFETY	
CHEMICAL/SAFETY	
FULL FACE SHIELD	
LASER EYE PROTECTION	
SAFETY/IMPACT	
SUNGLASSES/GOGGLES	
WELDING HELMET	

HEAD/FEET	R / U
COLD WX BOOTS/HATS	
HARD HATS	
IMPERMABLE BOOTS	
SAFETY/CONDUCTIVE SHOES	
SAFETY/NON-CONDUCTIVE BOOTS	

HEARING	R / U
EAR PLUGS	
HELMETS	
MUFF/PLUG COMBINATION	
MUFF/PLUF COMBINATION + TIME	
MUFFS	

Non-Responsive

Dba HINCHCO	20 MARCH 2013
TITLE	DATE

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RANK	NAME	SSN
Non-Responsive [redacted]		

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-ARS-IHSE (40-5f) July 3, 2008

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Non-Responsive MS ARNG Meridian Armory, 1551 65th Avenue, Meridian, MS 39307.

Thru: Non-Responsive, State Health Systems Specialist JFH-MS-MILPO, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey Report MS ARNG Meridian Armory, Meridian, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

   b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

   c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

   d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

   e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

   f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

   g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

   h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

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i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

k. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

l. Reports dated April 30, 2008, Industrial Hygiene Survey, Mr. Angel M. Guardiola Fayetteville, GA.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Meridian Armory, Meridian, MS.

b. The survey was conducted by Non-Responsive [redacted] 583 Ginger Cake Rd, Fayetteville, GA 30214.

3. Recommendations. Understand that all findings and the recommendations documented in the enclosed report have been reviewed by the Regional Industrial Hygienist. Follow all recommendations made in the enclosed report. Request industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-08. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-09 IHIP.

b. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

c. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

d. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

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NGB-ARS-IHSE (40-5f)
July 3, 2008
SUBJECT: Transmittal of Industrial Hygiene Survey Report MS ARNG Meridian Armory, Meridian, MS.

4. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive, Regional Industrial Hygienist, NGB-ARS-IHSE, Non-Responsive

Non-Responsive
Regional Industrial Hygienist

CF: NGB-ARS-IHSE
Non-Responsive tate Safety Manager, 2497 N. West Street, Jackson, MS 39216.
Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
ENCL.
as

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Non-Responsive
583 GINGER CAKE RD
FAYETTTEVILLE, GA 30214
Non-Responsive

April 30, 2008

Non-Responsive
MS Army National Guard Armory
1551 65th Avenue
Meridian, MS 39307

RE: Baseline Industrial Hygiene Survey

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FINAL REPORT

FOR

BASELINE INDUSTRIAL HYGIENE SURVEY

MISSISSIPPI ARMY NATIONAL GUARD

MERIDIAN ARMORY

MERIDIAN, MS

DATE:

APRIL 17, 2008

PREPARED BY

Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
Non-Responsive

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2.0 INSTRUMENTATION

3.0 FINDINGS

4.0 REFERENCES

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Attachment 2 Laboratory Reports: A/C-Heating System, Weapons Vault Racks And IFR

Attachment 3 Photographs of the Facility

Attachment 4 Weapons Vault and IFR Sampling areas

Attachment 5 Schematic Drawing of Facility

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1.0 INTRODUCTION

At the request of the National Guard Bureau South Region Industrial Hygiene Office, Angel M. Guardiola performed a Baseline Industrial Hygiene Survey at the MS ARNG Meridian Armory. The purpose of the survey was to perform a baseline survey to evaluate health hazards, controls present in the work site, collect lead swipe samples from renovated/inactive or closed Indoor Firing Ranges, Weapons Vault, A/C-Heating System, illumination survey and to make recommendations regarding health hazards associated with the work at the Meridian Armory.

The building was constructed in 1980. The building was remodeled in 2007. New flooring tiles and windows were installed after asbestos abatement was performed in the offices. Ceiling tiles were replaced. The Drill Hall floor was refinished. Also a fire suppression system was installed. Some A/C-Heating units were installed with replacement of some of the vents. Two offices still are cooled with hotel type A/C-Heating wall units. The facility houses the HQ 155th BSTB and the B Co. unit. The armory is used by the troops of the HQ 155th BSTB and the B Co. unit for their monthly weekend drills. Two offices and a supply room in the building are occupied by an aviation unit (B/111).

The HQ 155th BSTB and the B Co. unit had 11 full time personnel at the time of the survey. The employees are assigned to perform administrative duties Monday-Friday 7:00am-4: 30pm. The facility houses administrative areas, classroom, supply room with a weapons vault, a deactivated indoor firing range, a kitchen and a drill hall. The supply room A/C-Heating unit is a self contained unit. There have been some problems with it but it has been fixed. A schematic drawing of the facility can be found in Attachment 5.

The facility was visually examined and personnel consulted to assess potential hazards present. Health Hazard Information Modules were completed. Illumination survey was performed throughout the facility.

2.0 INSTRUMENTATION/CALIBRATION

The following instrumentation was used to obtain light measurements. The instrument used has been calibrated and was operated according to the manufacturer's recommendations:

- SPER SCIENTIFIC Light Meter
  GHOST WIPE, Lead wipes

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3.0 FINDINGS

Illumination

Illumination levels were recorded in administration offices, classroom, training room, the kitchen, the drill hall and the supply room. Light measurements throughout the facility were above IES guidelines. See Light Readings Table at the end of this section.

Administration

Personnel perform administrative duties that consist of reading, handling and generating paper work personnel support in the areas of pay, orders, training and schools. Computer use comprises a large portion of the working day, five to six hours per day. This continuous use of computers can in the long run lead to eyestrain and hand/wrist soreness. Personnel interviewed reported no health problems at the time of the survey.

Motor Pool

The Meridian armory has a motor pool consisting of about a dozen HMMWV vehicles that are kept in a fenced and locked area behind the building. Personnel reported that the rest of their vehicles are stored at a different location together with the Air Guard. PMCS are performed at the monthly weekend drills. When major repairs are needed the vehicles are taken to the FMS 17 located in Decatur.

Drill Hall

There Drill Hall is located at the right side, center area inside the building. It is used for formation on weekend drills. There were many pieces of tents and boxes on the rear of the Drill Hall at the time of the survey. The unit is getting ready for deployment. Personnel reported that the weapons are not clean in the Drill Hall. Occasionally, routine maintenance is done in the Drill Hall. Mainly lubrication done on tables with CLP and rags. Personnel reported that the used rags are disposed of in plastic containers and thrown away. There are two exhaust ventilation fans located close to the roof. The Drill Hall is rented occasionally for outside activities such as antique shows. It has been a while since the last time. The Drill Hall is not rented for parties that people would bring food.

Kitchen

The facility has a kitchen; however it is not used to cook on weekend drills. The kitchen was updated when the building was renovated. Even though it has not been used, it was clean the day of the survey. They eat out on restaurants that have been contracted to provide food on weekend drills.

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Deactivated Indoor Firing Range

There is deactivated Indoor Firing Range (IFR) at this facility. It is located to the left of the Drill Hall. The backstop was located in the area closest to the front of the building (See Attachment 5). Personnel reported that it was "cleaned" but do not know when. The backstop was removed and the floor in the front (pit area) is at the same level of the rest of the floor. The space was divided with metal cages in the middle and two open areas at both ends. It is used as storage. The metal cages are full of equipment and were locked. In the front area, there were metal cabinets, chairs, tables and desks randomly stored. This is the area where the IFR backstop and pit area were located. In the rear area there were metal lockers, camouflage equipment, desks, chairs and four flammables cabinets. All lead samples were taken using a 10 inch by 10 inch template. The US environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. Five wipe samples were taken from where the backstop was and areas surrounding it (See Attachment 4, IFR sampling areas for locations). Four of the samples were above the EPA clearance level of 40ug/ft2 and one of the samples was above the NG Bureau limit of 200ug/ft2. See Table 1 for results.

Table 1

Sample Number	Sample Location	Results	
71	Floor, right side, 46" from front wall and 6" from right wall	50ug	71ug/ft2
72	Floor, junction of the pit area – floor(same level) 84" from front and 74" from right wall	85ug	121ug/ft2
73	Top of metal cabinet at front wall, 39" from right wall	21ug	30ug/ft2
74	Floor, right wall, 107" from the front	147ug	210ug/ft2
75	Floor, left wall next to door, 237" from front wall	56ug	80ug/ft2
70	Blank	BRL	BRL

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Weapons Vault

The Meridian Armory has a weapon storage vault located in the supply room. Personnel stated that accountability and issuing of weapons would be done in this area if routing maintenance is to be performed. As stated in the Drill Hall section, personnel reported that the Drill Hall is not used to clean weapons. The weapons are cleaned in the field. The vault had a de-humidifier at the time of the survey. It is turned on all the time. It has no outside drainage. Personnel stated that it is checked regularly and emptied when full. All lead samples were taken using a 10 inch by 10 inch template. The US environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. Five wipe samples were taken from the weapons vault racks and floor (See attachment 4 for sampling areas). All of the samples were above the EPA clearance level of 40ug/ft2 and none was above the NG Bureau limit of 200ug/ft2. See table 2 for results.

Table 2

Sample Number	Sample Location	Results	
76	Weapons Vault Rack and Floor, First on Left Side	133ug	190ug/ft2
77	Weapons Vault Rack and Floor, Third on Left Side	83ug	118ug/ft2
78	Weapons Vault Rack and Floor, Rear Left Side	59ug	84ug/ft2
79	Weapons Vault Rack and Floor, Second on Rear Right Side	32ug	46ug/ft2
80	Weapons Vault Rack and Floor, Middle on Right Side	47ug	67ug/ft2
70	Blank	BRL	BRL

A/C System

Central A/C-Heating systems are used to cool the administration offices plus the classroom. Two offices still use A/C-Heating wall units. The systems heating units have three filters each. They were dirty the day of the survey. Personnel reported that the systems work well in the summer and winter. All lead samples

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were taken using a 10 inch by 10 inch template. Eight wipe samples were collected from the supply air outlet grills from offices used by personnel of the armory and from the filters (See pictures). All samples were below the EPA clearance level of 40ug/ft2 and the NG Bureau clearance level of 200ug/ft2. See Table 3 below for results.

Table 3

Sample Number	Sample Location	Results
62	A/C-Heating Outlet, B Co. Office	BRL
63	A/C-Heating Outlet, S-4 Office	BRL
64	A/C-Heating Outlet, S-1. Office	BRL
65	A/C-Heating Outlet, Conference Room	BLR
66	A/C--Heating Outlet, XO Office	BRL
67	A/C-Heating Outlet, HHC Office	BRL
68	A/C-Heating Filter, Supply Side	BRL
69	A/C-Heating Filter, Fan Side,	BRL
70	Blank	BLR

Material Safety Data Sheets

The supply room, located next to the drill hall, has a weapons vault and storage area. Personnel interviewed do not know where an MSDS Book or MSDS forms would be. There were four flammables cabinets located inside the last (Or rear section) of the deactivated IFR. One of them was empty. Of the other three, the one numbered 2 contains lube oil and CLP. The one numbered 3 contains household cleaning products. The other one not numbered contains floor finishing liquid. They were not locked but the entrance door to this section is kept locked. There was a Hazardous Materials Inventory List attach to the outside door of each cabinet (See pictures).

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Light Readings

Light measurements were taken in various locations throughout the facility. The results were compared to guidelines recommended by the Illuminating Engineering Society (IES). The results of the survey are shown in Table 4.

Table 4

Location	Light Reading (footcandles)	IES Recommendation (footcandles)
ADO B Co. Office	53-135 (Avg. 87)	50-100
ADO S-4 Office	67-95 (Avg. 75)	50-100
ADO S-1 Office	53-140 (Avg. 104)	50-100
ADO XO Office	64-97 (Avg. 84)	50-100
ADO HHC Office	68-148 (Avg. 112)	50-100
ADO S-3 Office	60-112 (Avg. 80)	50-100
Classroom	70-150 (Avg. 111)	50-100
Conference Room	50-104 (Avg. 81)	50-100
Mail Room	40-97 (Avg. 60)	50-100
Kitchen	50-93 (Avg. 67)	50-100
B Co. Supply Room (Storage)	20-47 (Avg. 31)	20
Commander Office	56-98 (Avg. 78)	50-100
Drill Hall	42-82 (Avg. 65)	30

Light measurements throughout the facility were above IES guidelines. ANSI RP7-1991.

4. REFERENCES

- Guide to Occupational Exposure 2000, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

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- Title 29, Code of Federal Regulations (CFR). 2000, revision, Part 1910. Occupational Safety and Health Standards
- AR 40-5, Preventative Medicine, 15 October 1990.
- AR 385-10, The Army Safety Program, 23 May 1988.
- National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 40-503, The Army Industrial Hygiene Program, 30 October 2000.
- Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.
- Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

Non-Responsive

[redacted]

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RECOMMENDATIONS

- Recommend that when using computers for extended periods of time, personnel should take occasional breaks and change position to minimize the possibility of eyes and/or hands/wrist injury.

- Continue to ensure that weapon maintenance and cleaning is done in a well-ventilated area. Continue to practice good personal hygiene by washing hands after handling and cleaning weapons and ammunition. Ensure that the weapons racks are well cleaned before placing them back in the vault.

- Recommend that when that whenever tables are used to clean or oil weapons in the armory, they should be covered. Also if any rags are used with CLP in the process, they should be disposed of through an FMS facility.

- Recommend that the A/C-Heating filters should be changed in a timely manner following the manufacturers recommendations.

- Recommend that the Occupational Safety and Health office or the appropriate state office review the lead wipe clearance sample results of this facility to determine if the IFR will need further decontamination.

- Ensure that personnel and troops have knowledge of the location of the MSDS book. And is enrolled hazardous materials safety training.

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ATTACHMENT 1

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SECTION 1. DEMOGRAPHIC DATA

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a. ARLOC ____ b. INSTALLATION Meridian, MS Armory c. BLDG/RM NUMBER S1 office

d. LOCATION/CODE AA e. OPERATION/CODE ADO f. DESCRIPTION

S-1 for Battalion - Computer work about 5 hrs/day

Lot of paperwork

g. MACOM/CODE NG

j. TELEPHONE/AUTOVON NUMBER Non-Responsive CODE ____ i. SUPERVISOR Non-Responsive

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ k. RAC ____ l. FREQUENCY (Hrs Per Day) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____

e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4-17-08 b. EVALUATOR (INITIALS) Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
lighting	53-140(Arg.104)	FC	50-100	Adt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PB VDT	eye/hand strain. computer work for long periods of time	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

					d. CATEGORY
Non-Responsive					AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① S-1 for Battalion since 2005. Been in the guard - 20 AGR about 20 yrs.
② Before he was Hattiesburg
③ Computer work about 5 hr/day
④ No health problems as of now

• PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

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(Form, see Fifth User's Instructions.)

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SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Meridian, MS Armory c. BLDG/RM NUMBER S4 Office

d. LOCATION/CODE AA BN S-4 NCO e. OPERATION/CODE ADI Computer work about 5-6 hrs/day f. DESCRIPTION _____

g. MACOM/CODE NG / Non-Responsive /CODE / i. SUPERVISO Non-Responsive

j. TELEPHONE/AUTOVON NUMBER [redacted] k. RAC _____ l. FREQUENCY (Hrs P [redacted]

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4-17-08 b. EVALUATOR (INITIALS) [signature]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lightning	67-95 (Avg. 75)	FC	50-100	Adq

h. PERSONAL PROTECTIVE EQUIPMENT (R-REQUIRED; A-AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	eye/hand strain. Computer work for long periods of time	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. * PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY
Non-Responsive [redacted]					AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Battalion S-4 NCO
② Has been at the facility for since July 2007
③ Before, was in McGee - Supply
④ Computer work about 5 or 6 hrs/day
④ No health problems at this time

* PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide historic of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

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(See ARAM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

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a. ARLOC _____ b. INSTALLATION Meridian MS Armory

c. LOCATION/CODE A/2 ISA B Co Supply Sgt. Computer work about

d. OPERATION/CODE SAH ADU e. BLDG/RM NUMBER _____

f. DESCRIPTION _____

g. MACOM/CODE NG

j. TELEPHONE/AUTOVON NUMBER Non-Responsive CODE _____ i. SUPERVISO Non-Responsive

m. NO CIV(S) _____ n. NO MIL _____ k. RAC _____ l. FREQUENCY (Hrs P

o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINT Non-Responsive

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____ YS _____ d. SPRAY BOOTHS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/17/08 b. EVALUATOR (INITIAL Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting Fixe	53-135 (Aug. 87)	FC	50-100	Adqt
Lighting Storage	20-47 (Aug. 31)	FC	20	Adqt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

i. RESPIRATOR

	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PØ VDT	Eye/hand strain. Computer use for long periods of time	3	
PØ LIFTING	Heavy Lifting	3	
PØ FOOT HAZ	Foot Hazard	3	

BEST AVAILABLE COPY

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY
[redacted]					AGR

Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

B Co Supply Sgt yrs AGR
Has been at this facility 5 yrs
Before he was at Camp Shelby - Am Supply
Computer work about 6 or 7 hrs/day
No health problems

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

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(Form, see FLHSI User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

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a. ARLOC _____ b. INSTALLATION Meridian, MS Armory c. BLDG/RM NUMBER S3 office

d. LOCATION/CODE AA e. OPERATION/CODE ADO f. DESCRIPTION

B+W Operations Sgt - Computer Work about 5 hrs/day

g. MACOM/CODE NG / [redacted] M/CODE / i. SUPERVISO[redacted]

j. TELEPHONE/AUTOVON NUMBER [redacted] k. RAC l. FREQUENCY (Hrs Per Day)

m. NO CIV(S) n. NO MIL o. NO CONTRACTOR(S) p. NO LOC(S) q. NO OTHER

SECTION 2. IH STAFFING DATA

a. LAB HOODS b. VAPOR DEGREASERS c. MAINTENANCE BAYS d. SPRAY BOOTHS

e. OPEN SURFACE TANKS f. VENTIL[redacted]ION UNITS

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/17/08 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lightning	60-112 (Avg. 80)	FC	50-100	Adjt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Eye/hand strain. Computer use for long periods of time	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME				d. CATEGORY
Non-Responsive [redacted]					4512

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

BTN Operations Sgt
- Has been at this facility for 4 yrs
- Before was at Civilian
- Computer work about 5 hrs/day
- No health problems.

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

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(Form, see FIFTH User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

BEST AVAILABLE COPY

a. ARLOC ____ b. INSTALLATION Meridian, MS Armory c. BLDG/RM NUMBER HHC office

d. LOCATION/CODE AA Readiness NCO HHC e. OPERATION/CODE ADP Computer work about f. DESCRIPTION ____

g. MACOM/CODE NG / ____ Non-Responsive ____ OM/CODE ____ / ____ i. SUPERVISO Non-Responsive

j. TELEPHONE/AUTOVON NUMBER ____ k. RAC ____ l. FREQUENCY (Hrs Per Day) ____

m. NO CIV(S) ____ n. NO ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____

e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4-17-08 b. EVALUATOR (INITIALS) Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lightning	68-148 (Avg. 112)	FC	50-100	Adq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Eyelhand strain - Computer use for long periods of time	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive [redacted]					AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Readiness NCO HHC
② Has been at this facility for
③ Before was at
- Computer work about 5-6 hr/day
- No health problems as of the time of the survey

PRIVACY ACT STATEMENT

Title 6 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

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ATTACHMENT 2

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Analytical Environmental Services, Inc.

Date: 4/25/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: Non-Responsive
Project: Meridian, MS Armory
Delivery Order:
PO No:

Lab Order: 0804C11
Date Received: 4/18/2008 1:00 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0804C11-001A	62	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-002A	63	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-003A	64	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-004A	65	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-005A	66	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-006A	67	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-007A	68	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-008A	69	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-009A	70	BRL	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-010A	71	50	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-011A	72	85	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-012A	73	21	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-013A	74	147	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-014A	75	56	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-015A	76	133	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-016A	77	83	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-017A	78	59	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-018A	79	32	µg, Total	20	1	4/17/2008	4/21/2008	JY
0804C11-019A	80	47	µg, Total	20	1	4/17/2008	4/21/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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ATTACHMENT 3

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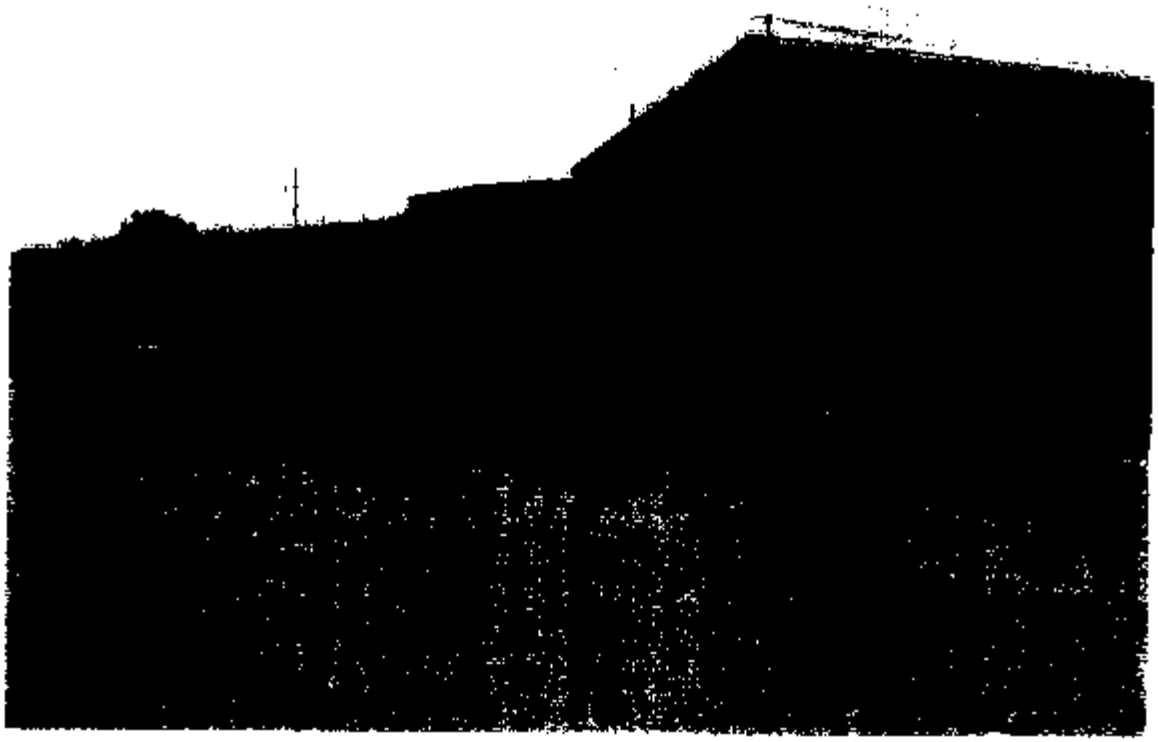


MERIDIAN, MS
ARMORY

DRILL HALL

BEST AVAILABLE COPY

BEST AVAILABLE COPY

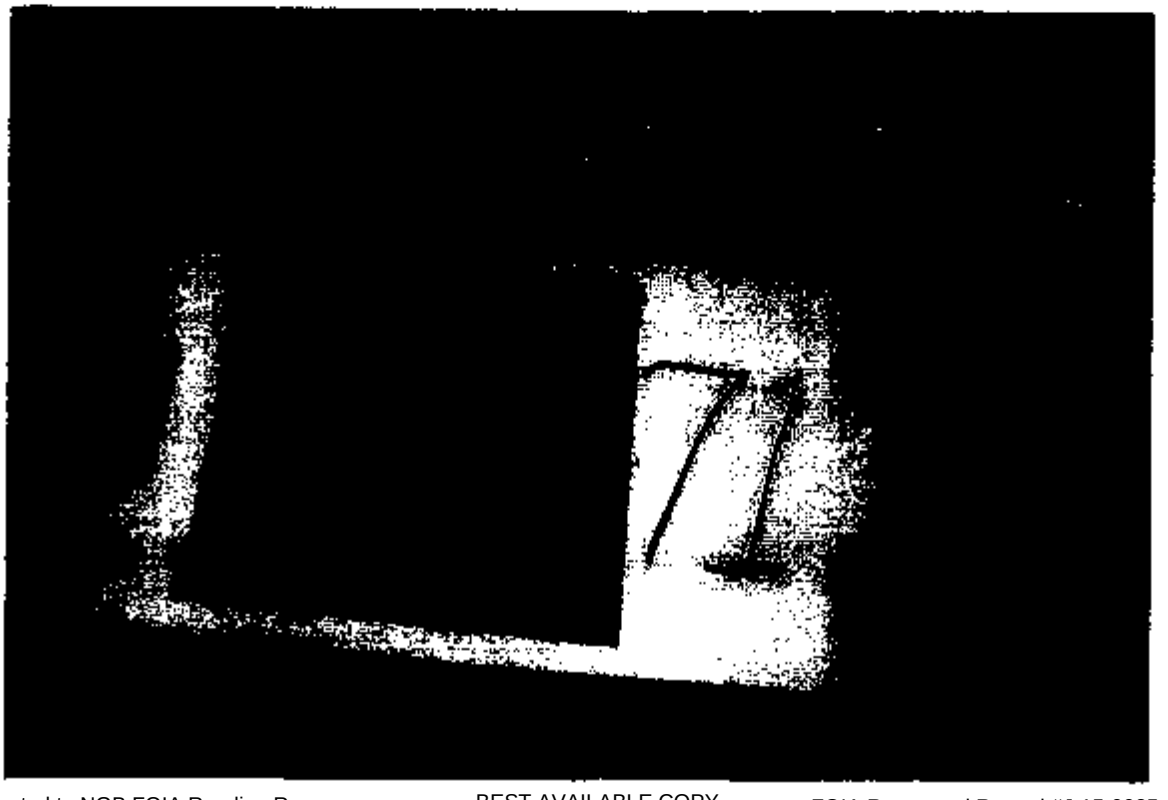
CONVERTED IFR, BACKSTOP & PIT AREA

CONVERTED IFR, VIEW OF METAL CAGES FROM REAR SECTION

BEST AVAILABLE COPY

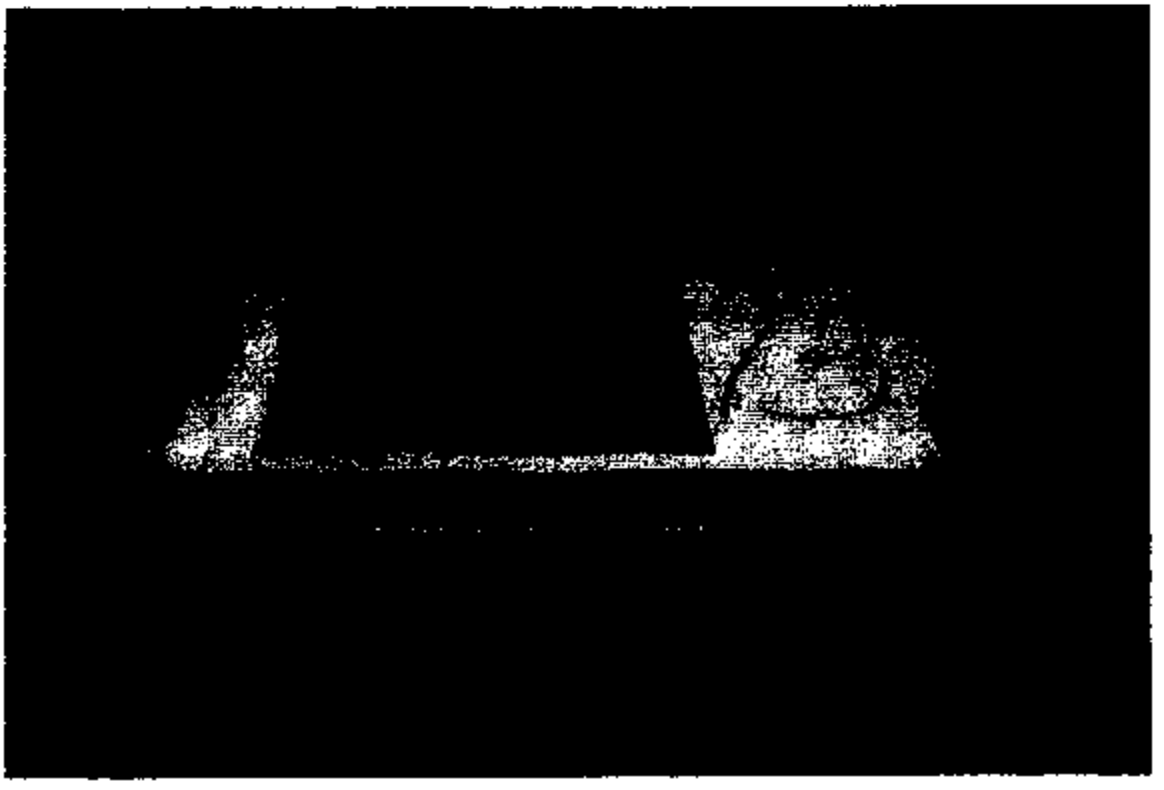
CONVERTED IFR, PIT AREA FILLED WITH CONCRETE

CONVERTED IFR SAMPLE AREA 71



BEST AVAILABLE COPY

CONVERTED IFR
SAMPLE AREAS 72 & 73



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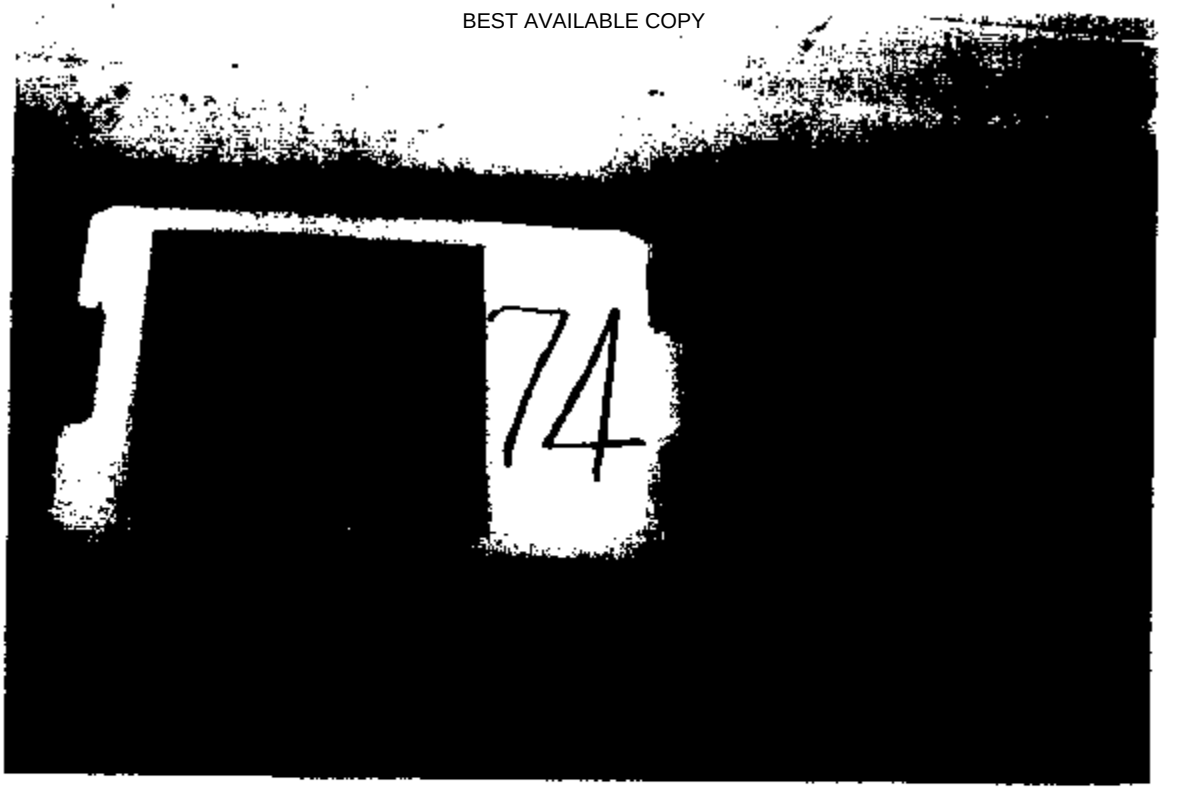
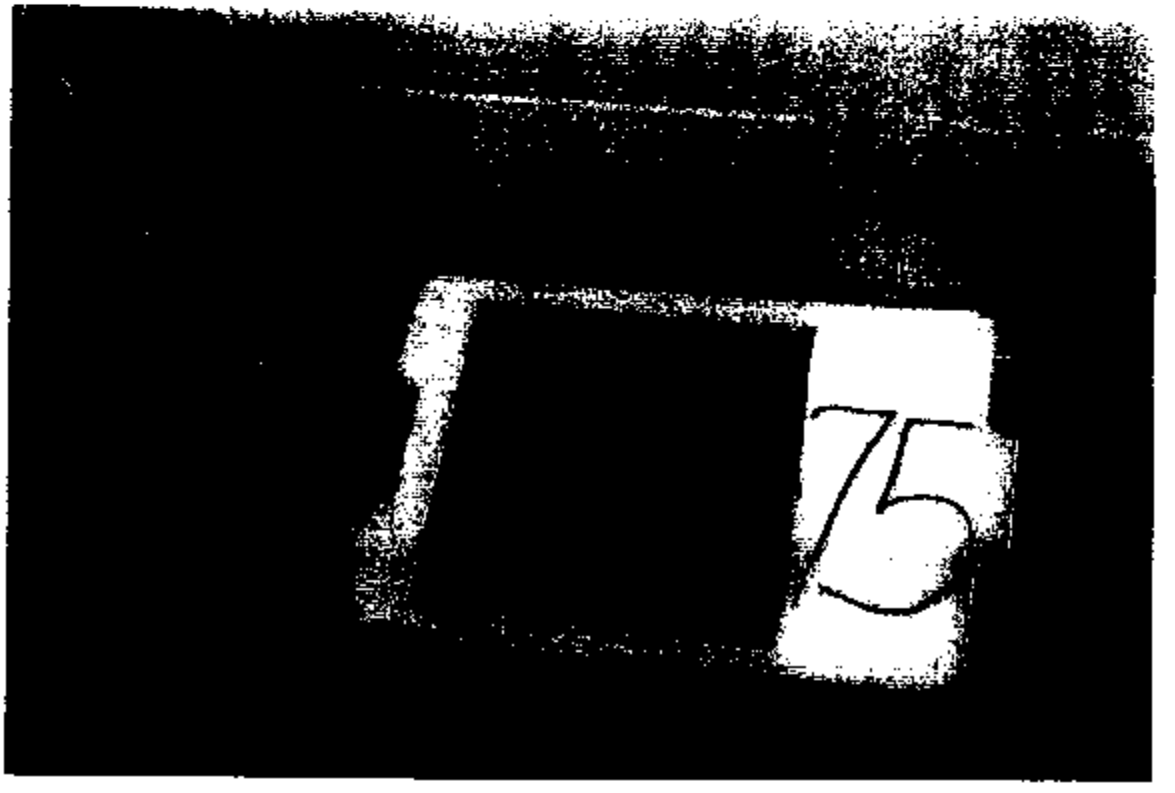


CONVERTED IFR
SAMPLE AREAS 74 & 75



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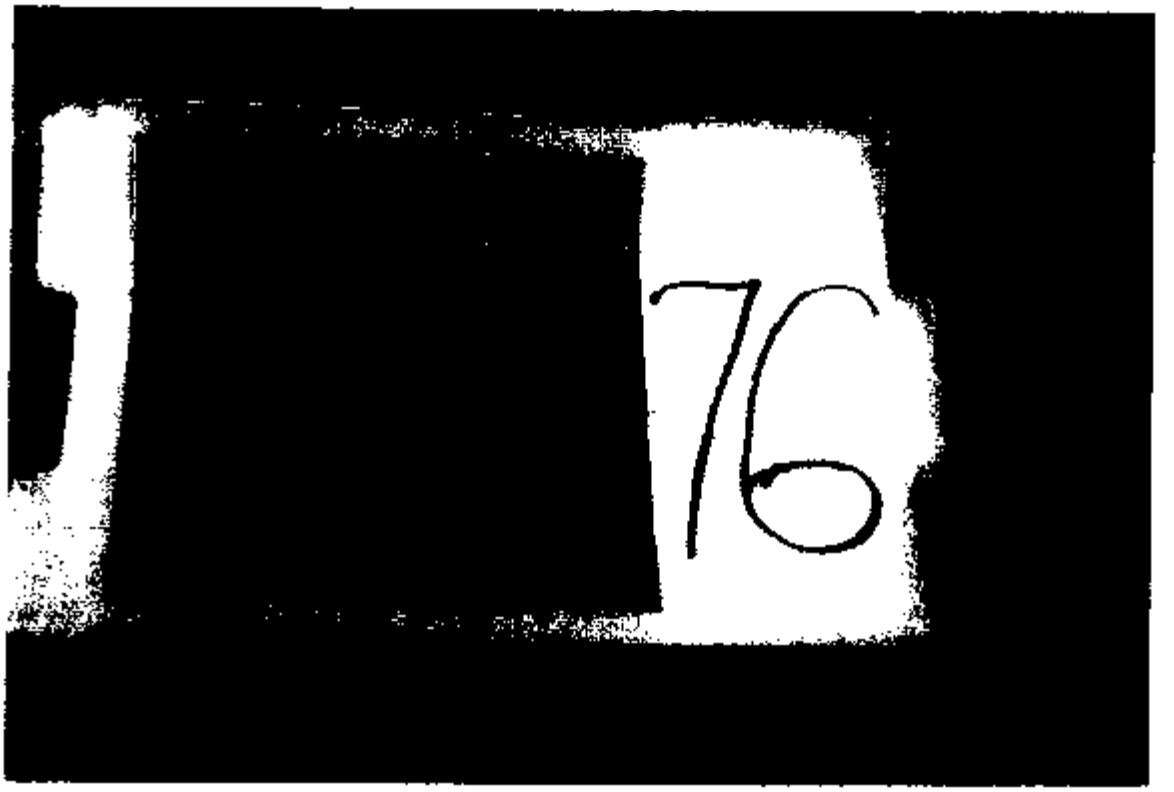
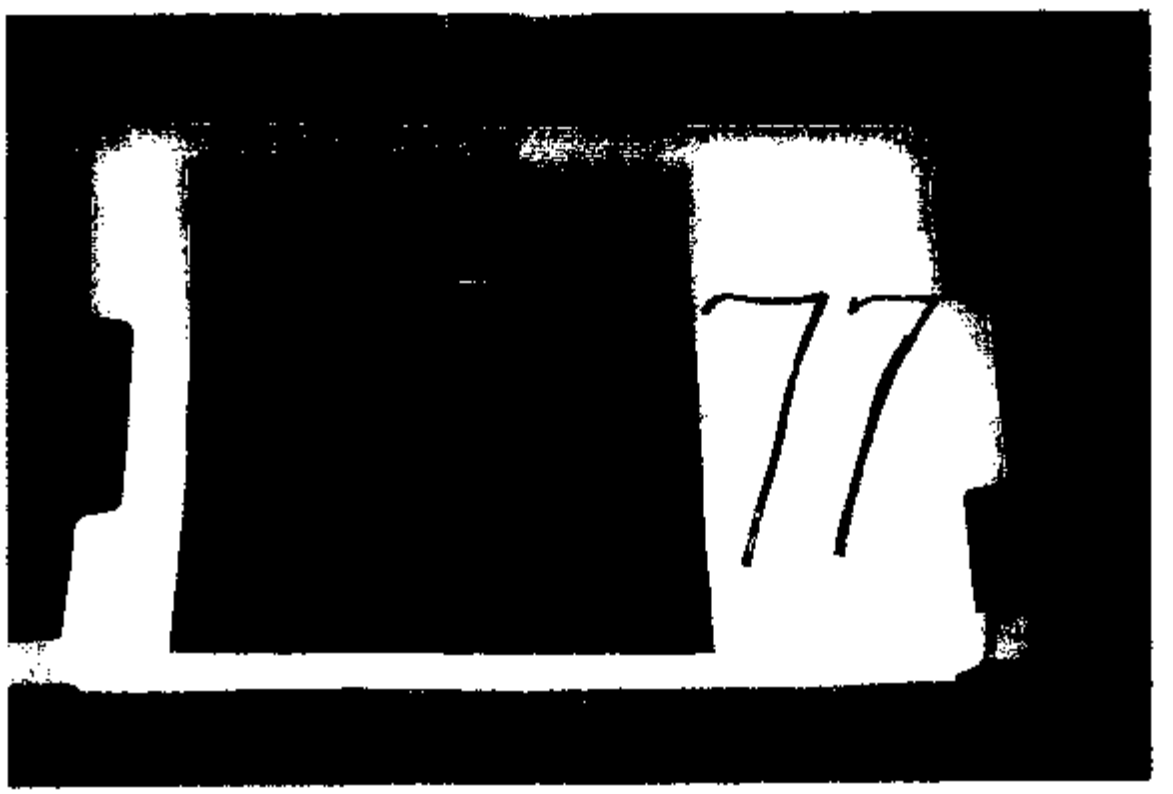


WEAPONS VAULT,
SAMPLES AREAS 76 & 77



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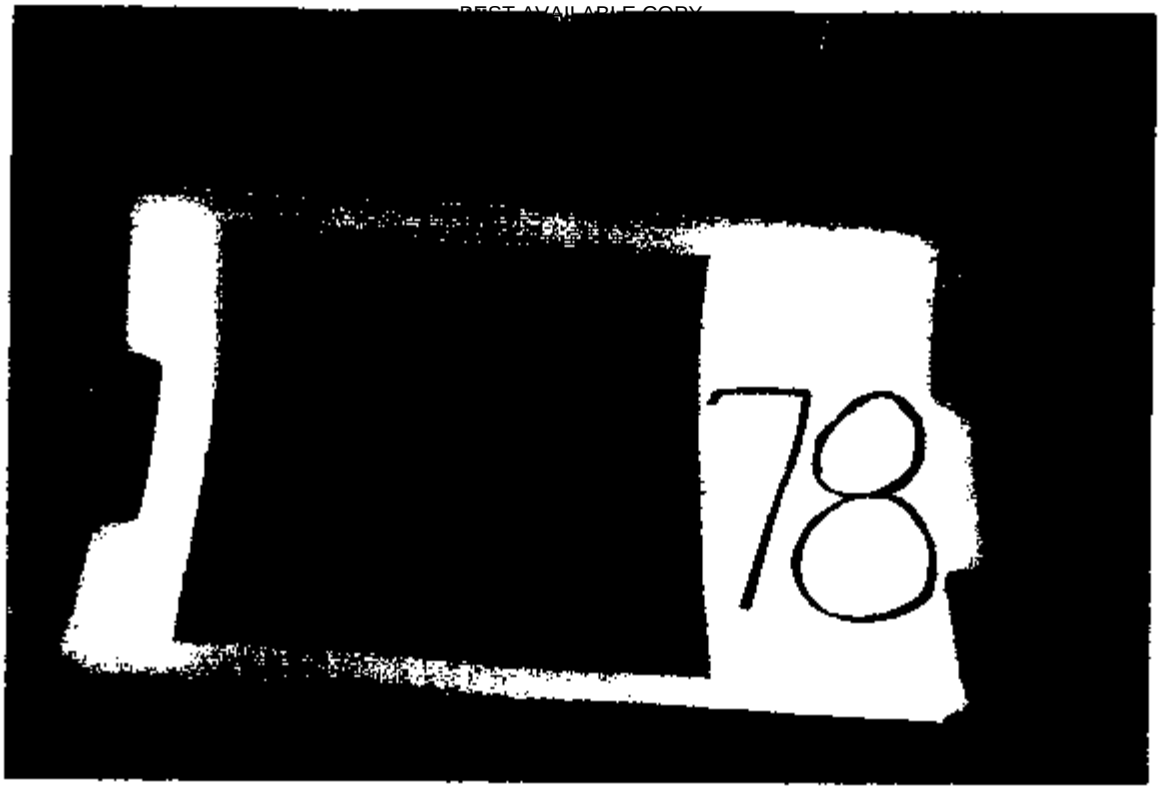
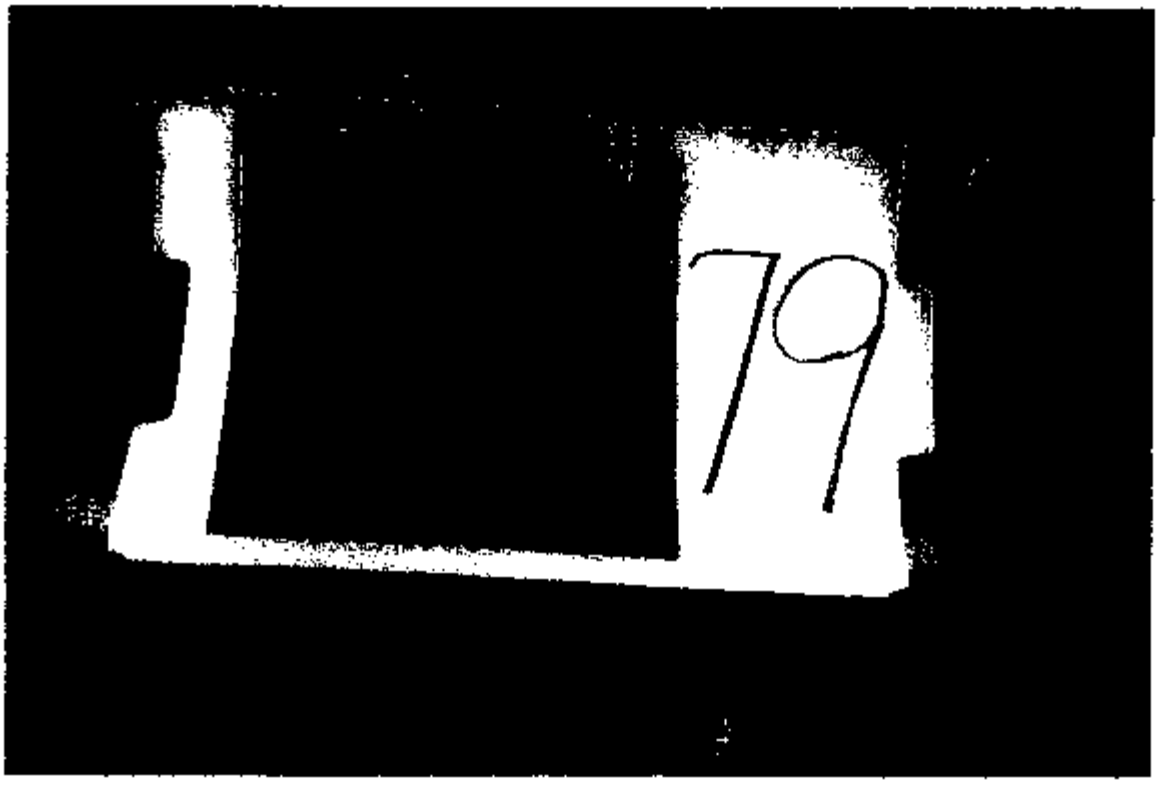


WEAPONS VAULT
SAMPLE AREAS 78 & 79



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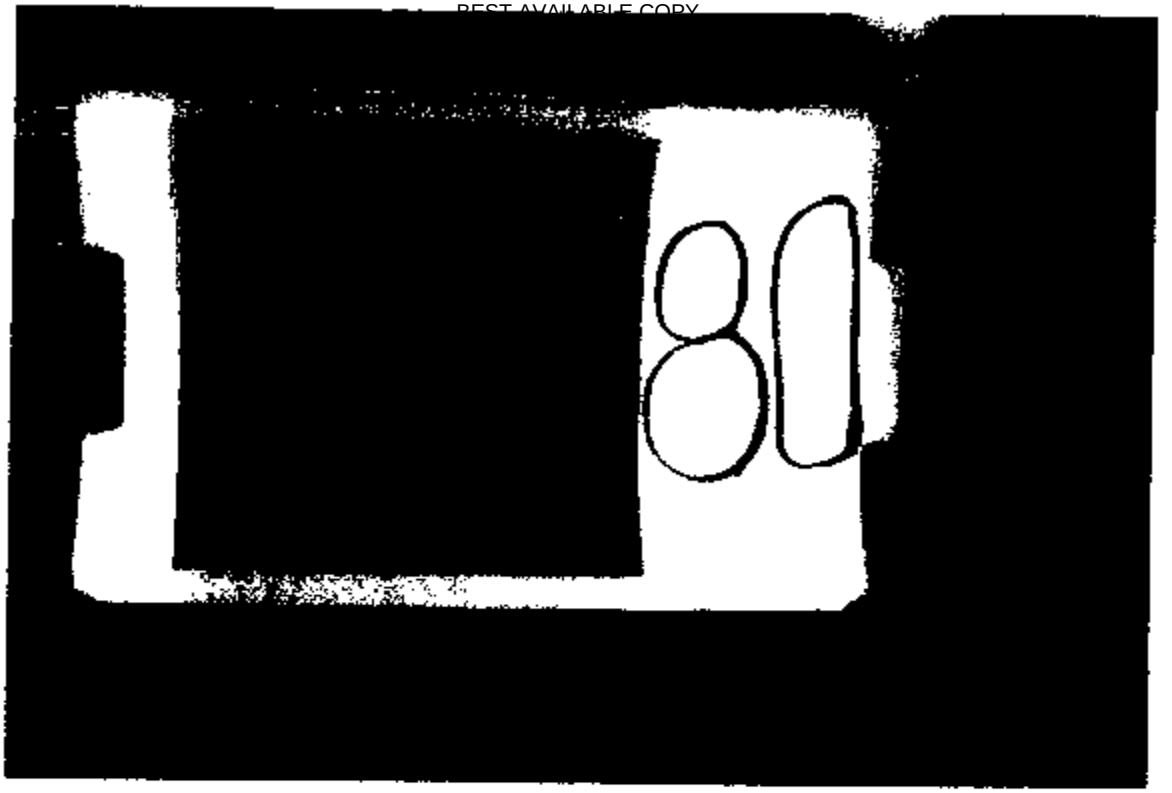
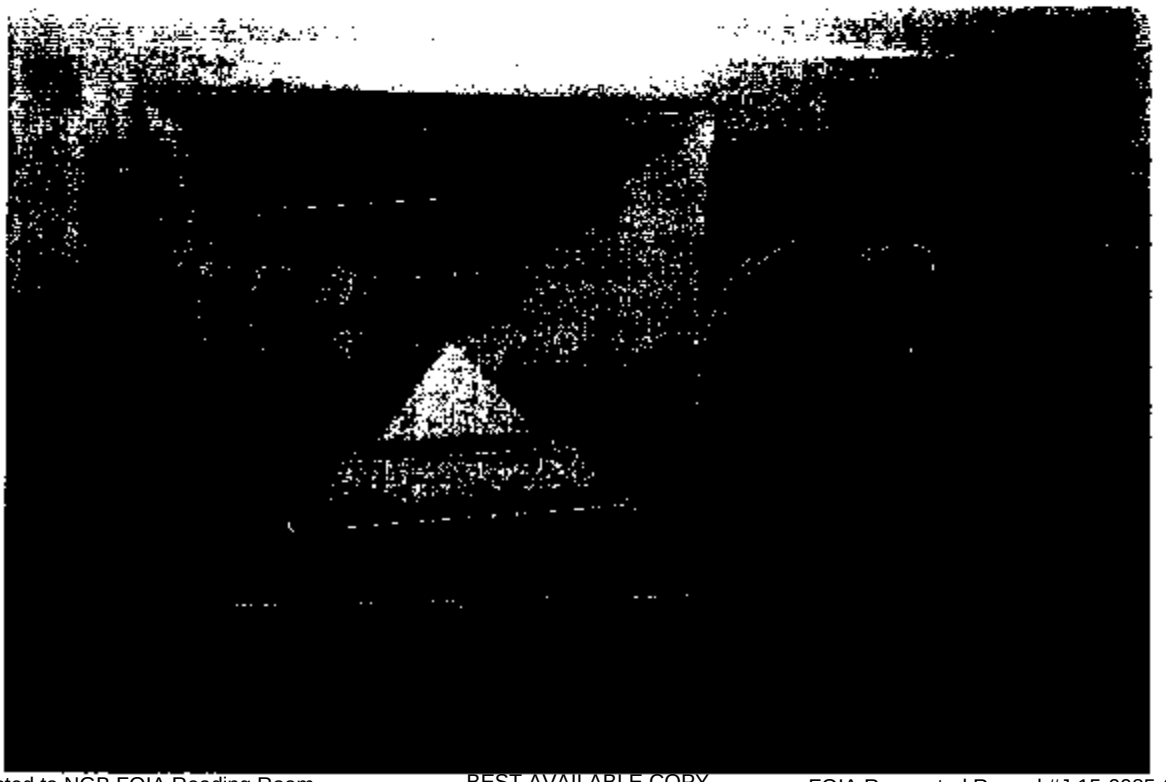


WEAPONS VAULT
SAMPLE AREA 80

A/C-HEATING OUTLET S-4 OFFICE, SAMPLE 63



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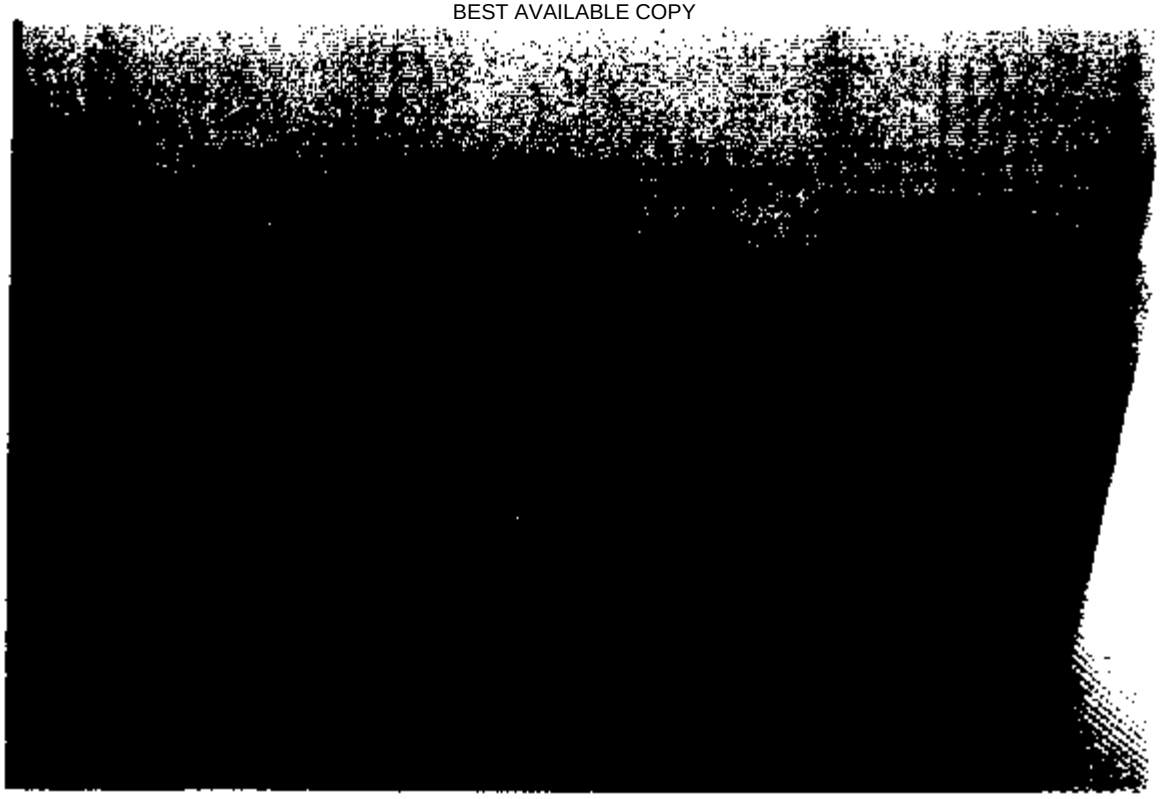
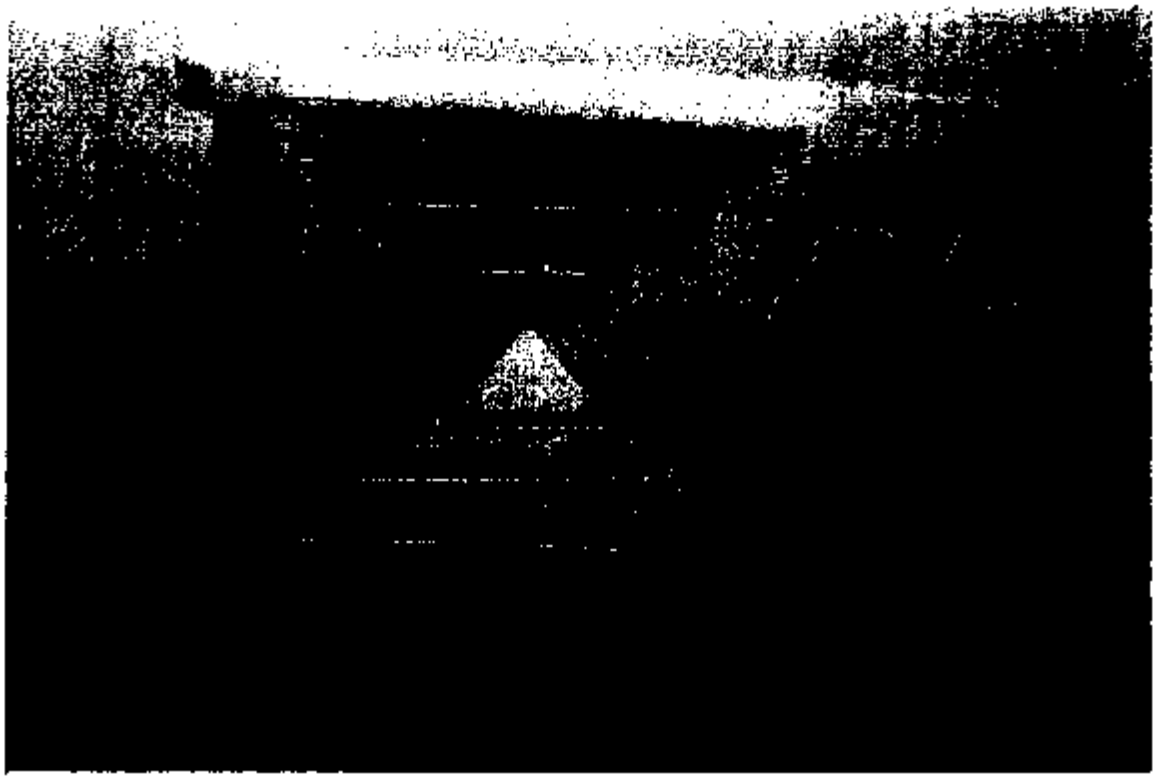


A/C-HEATING OUTLETS
B CO. & S-1 OFFICES,
SAMPLES 62 & 64



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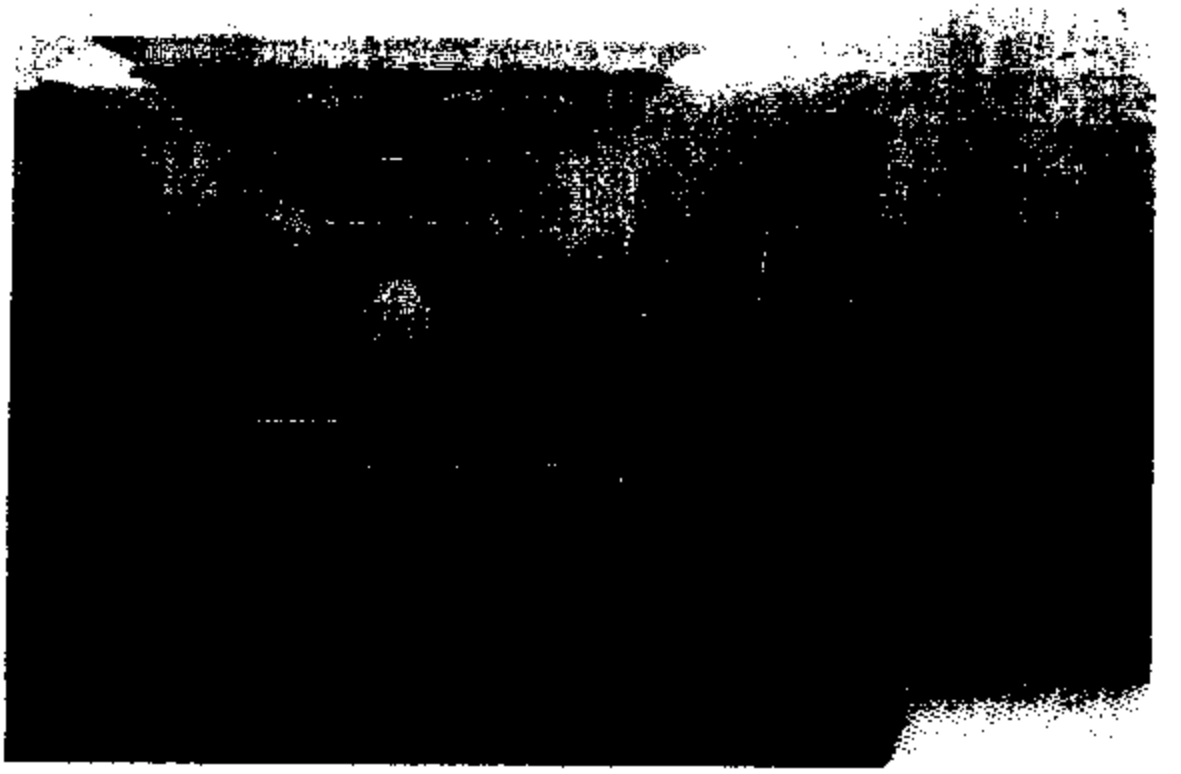
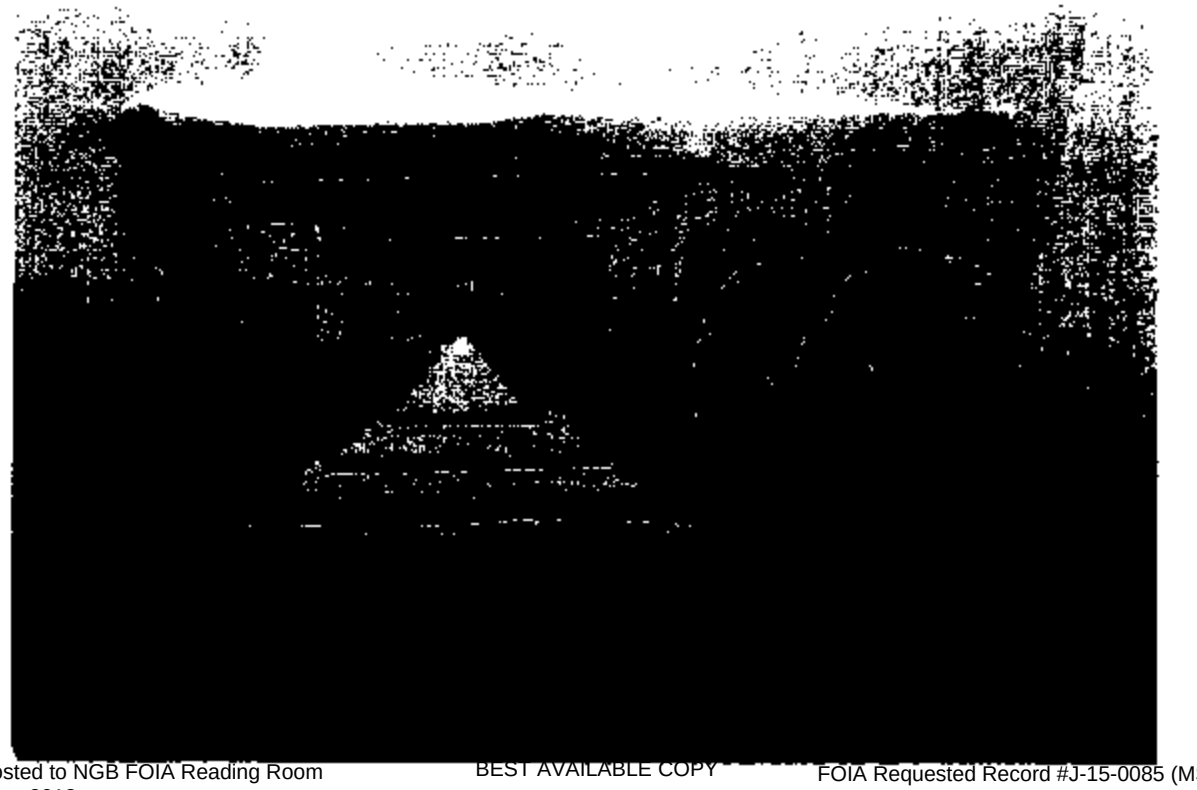


A/C-HEATING OUTLETS
CONF. ROOM & XO
OFFICE, SAMPLES 65 & 66



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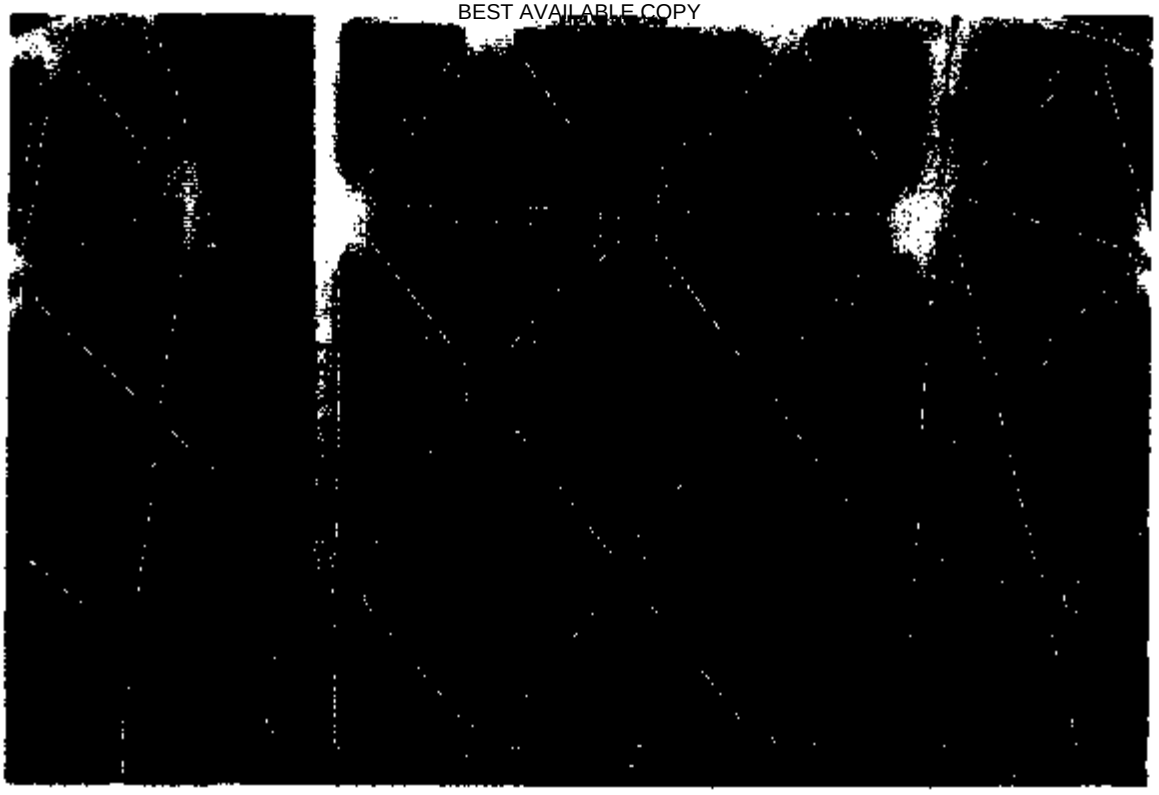

A/C-HEATING FILTERS

MOTOR POOL

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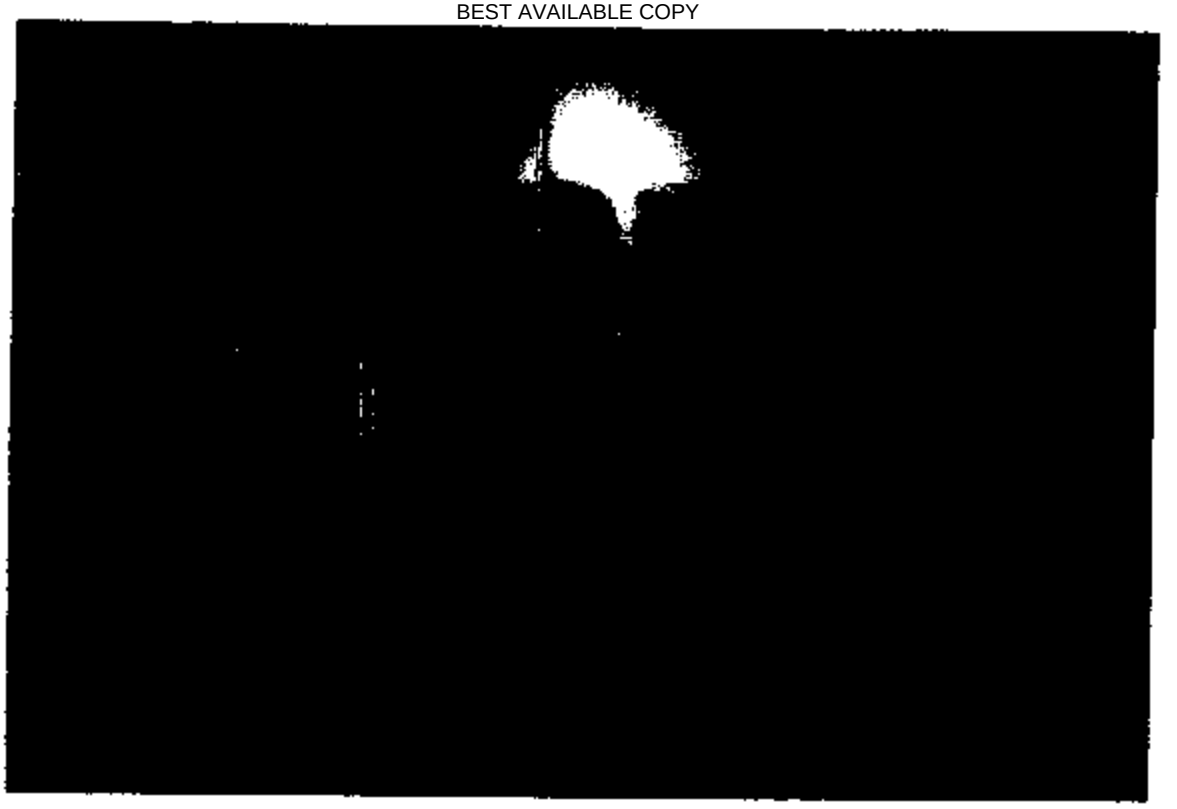
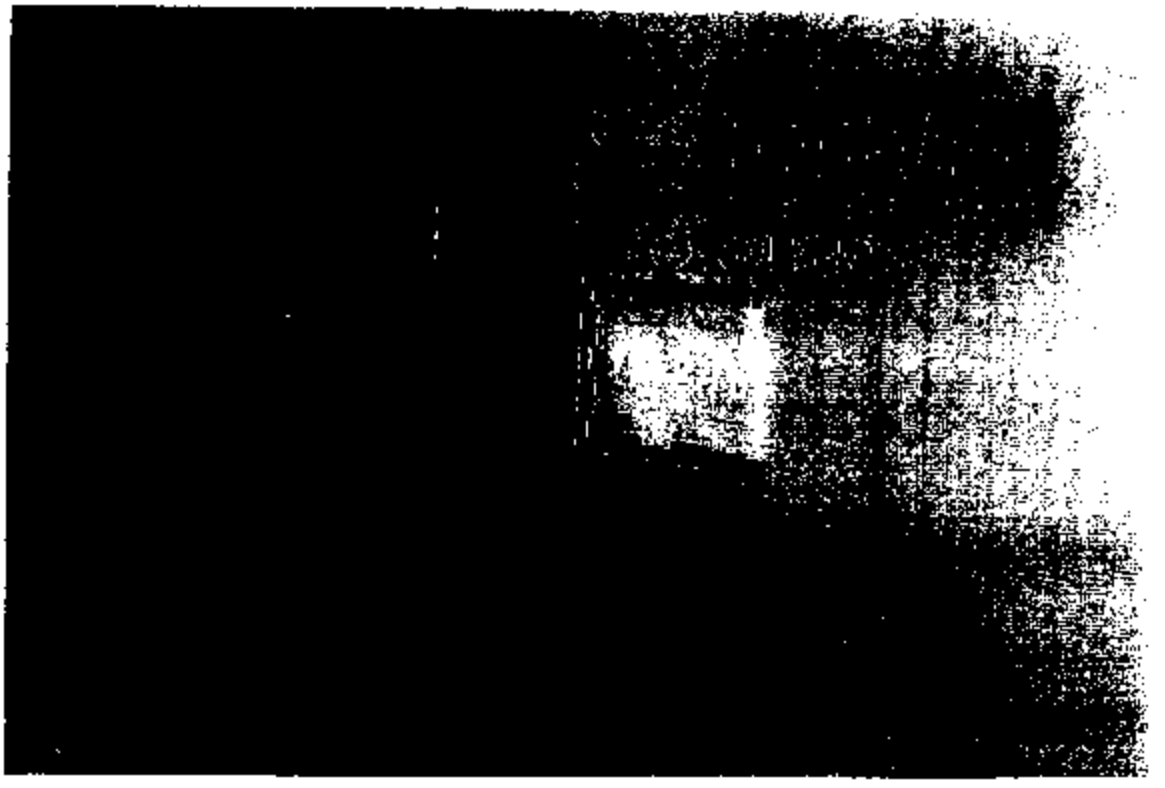


FLAMMABLES CABINETS



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ATTACHMENT 4

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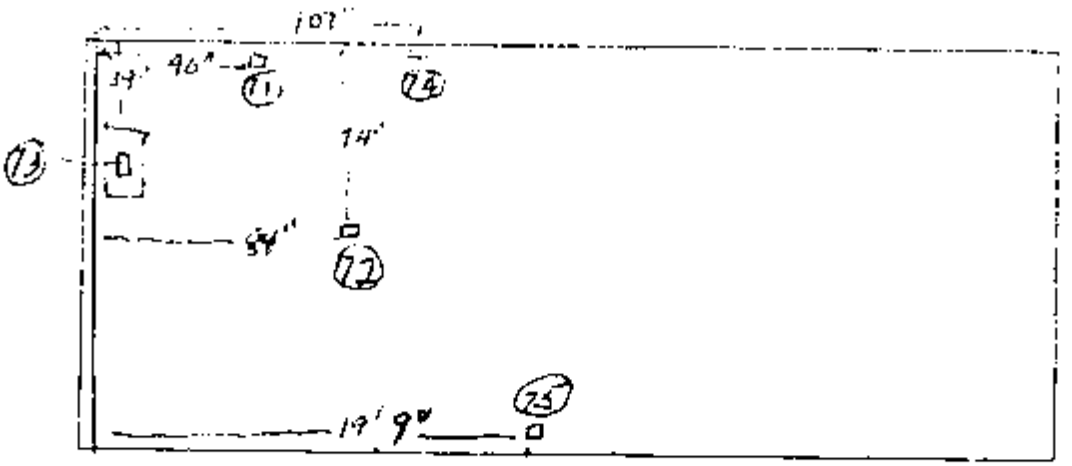
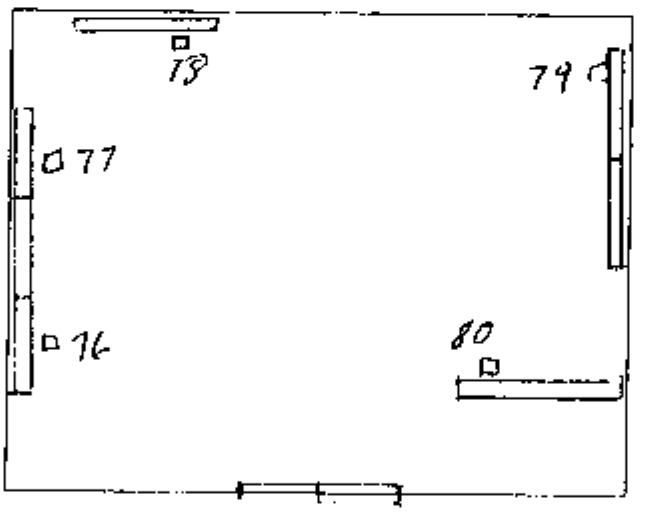


Converted IFR Sampling Areas



Weapons Vault Sampling Areas

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ATTACHMENT 5

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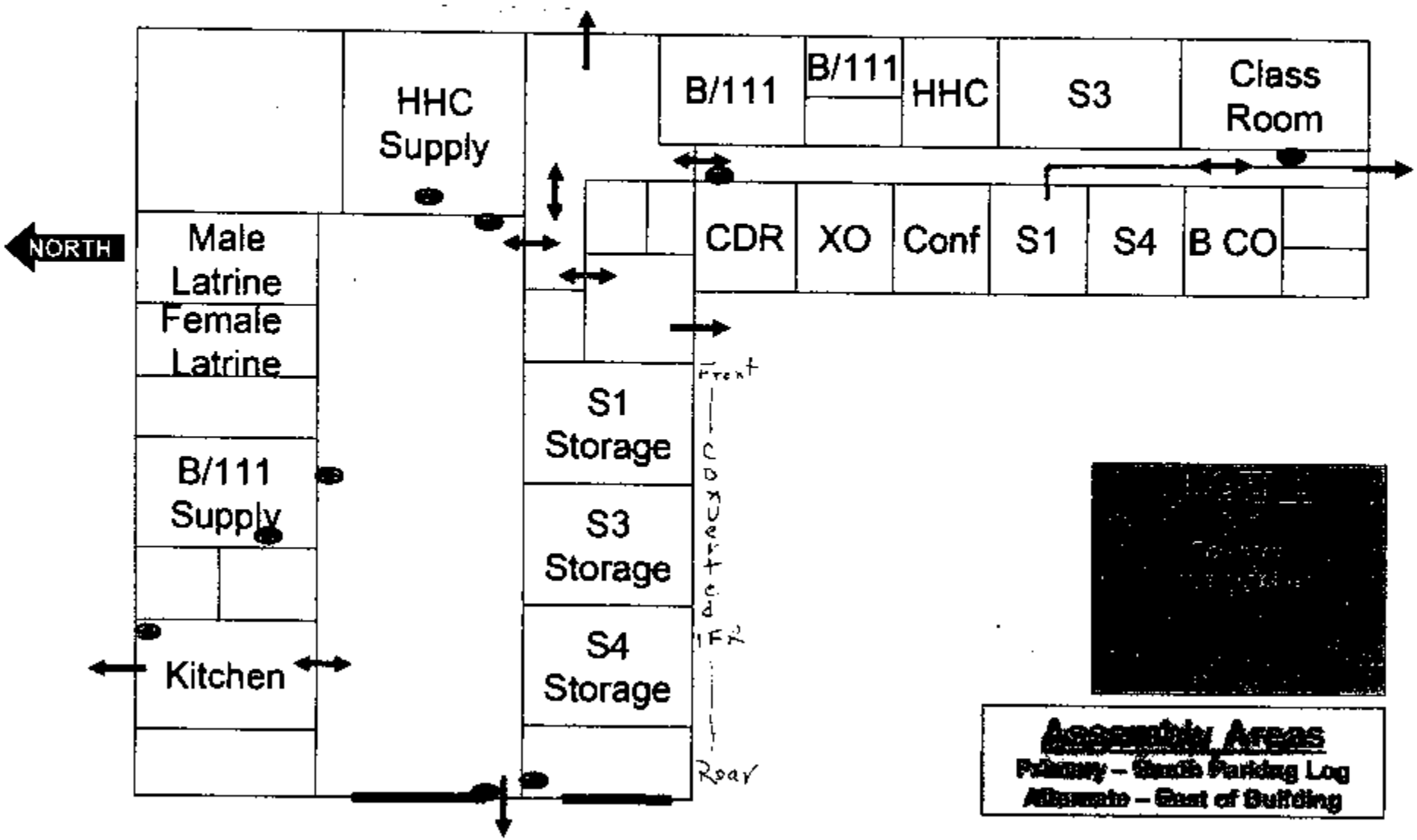
Meridian Readiness Center Evacuation Plan



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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) November 18, 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Readiness NCO, MS ARNG G. V. "Sonny" Montgomery Meridian Armory, Meridian, Mississippi 39307.

Thru: Non-Responsive DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Meridian Armory, Meridian, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

c. Title 29 CFR, General Industry, revised 1996 rev. Part 1940

d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

e. AR 385-10, The Army Safety Program, 23 August 2007.

f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

l. Report Industrial Hygiene Survey, Thomas Minckler, Industrial Hygiene Technician, 1503 Zaiger Dr., Colorado Springs, CO.

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SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Meridian Armory, Meridian, Mississippi.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Meridian Armory, Meridian, Mississippi.

b. The surveys were conducted by Non-Responsive Industrial Hygiene Technician, 1503 Zaiger Dr., Colorado Springs, CO. 80915.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Understand that all findings included in the enclosed report have been reviewed by the Regional Industrial Hygienist and the following recommendations are the ones to be followed.

a. Use the guidance given in the enclosed report as good industrial hygiene (IH) practices, requesting IH services where needed. The recommendations that follow are based on the survey findings as reported:

i. Up grade the illumination in the shop to meet the standard for each location. In the interim review the Illumination survey worksheets in enclosed report and the Illumination narrative to determine where best to place supplemental illumination.

ii. Repair ventilation systems in need of repair in the shop. (RAC 3)

iii. Decontaminate all lead contaminated areas, i.e. the bay door surface and floor in room 150; the floor, pallets, chairs and the shelves in room 151; the floor in room 153 and the floor and metal shelves in room 152 (old indoor firing range) be thoroughly cleaned wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Kleen or Spic-n-Span. For additional lead cleaning measures (RAC 2)

iv. Develop or updated HAZCOM SOP. Ensure to perform semi-annual inventories and updates of MSDS's on all chemicals in the facility and are incorporated to thr HAZCOM MSDS binder. Ensure all hazardous materials are stored in appropriate locations **(RAC 3)**

b. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2009. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2010 IHIP.

c. Have all HHIM data entered into the HHIM computer module.

d. Use the report to help in correcting all deficiencies noted.

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SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Meridian Armory, Meridian, Mississippi.

e. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

f. Contact the State Occupational Health Office, Non-Responsive [redacted] for any medical Surveillance that may be needed.

g. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Mr. Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]
Non-Responsive [redacted]

Non-Responsive [redacted]

CF: ARNG-CSG-P
Non-Responsive [redacted] tate Safety Manager, 2497 N. West Street, Jackson, MS 39216.
[redacted] e Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

ENCL.
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Industrial Hygiene Report
For
Mississippi Army National Guard
(MSARNG)
At
G.V. 'Sonny' Montgomery Armory
1551 65th Avenue South
Meridian, Mississippi 39307

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

By [redacted]
DBA: Minckler & Associates
September 23, 2010

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- Site Description
- Scope of Work
- POC

Instrumentation ..... Page 1

Findings
- Brigade Special Troops Command ..... Page 1
- Lead Wipe Results ..... Pages 1 & 2
- Area Lighting and Deficiencies ..... Pages 3 & 4

Attachments:
1. Health Hazard Information Module
2. Hazard Material List
3. Analytical Lead Results/Submission Form
4. Personal Roster
5. Building Floor Plan
6. Pictures: 1-24
7. Lead Cleanup Procedures
8. References
9. Hazard Communication Sample SOP
10. Recommendations

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October 5, 2010

MEMORANDUM FOR: Mississippi Army National Guard, Attn: Non-Responsive Readiness NCO, G.V. 'Sonny' Montgomery National Guard Armory, 1551 65th Avenue South, Meridian, Mississippi 39307

SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module (HHIM) Survey, Meridian Army National Guard, Meridian, Mississippi

1. BACKGROUND: At the request of Non-Responsive, National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Consultation was performed at the G.V. 'Sonny' Montgomery National Guard Armory, Meridian, Mississippi on September 23, 2010. The POC was Non-Responsive His address was 1551 65th Avenue South, Meridian, Mississippi 39307. The facility was built in 1981. The purpose of the survey was to perform lead wipe samples, ventilation and illumination surveys. A HHIM field survey form was included in the report.

2. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples and illumination measurements. All other instrumentation was operated according to manufacture recommendations.

   1. Sper Scientific 840021, Light Meter, S/N: 02997, calibrated 2/3/2010
   2. Ghost Wipes, Manufactured: 09/14/07, Expiration: 03/12
   3. TSI, VelociCalc, Model 8386, SN 00040107 calibrated: 3/1/2010

3. Findings:

   a. HHC 155 BST Brigade Special Troops Command Bravo Company

      1. The armory was built in 1981. 116 M-Day soldiers were assigned to the unit. The permanent party staff provided readiness and personnel support in the areas of pay, assignments, training, promotions, and schools.

      2. Material Safety Data Sheets (MSDS) were readily available on all chemicals used in the facility. An update HAZCOM SOP was included in the report. All employees must be initially trained in the Federal Hazardous Communication Program IAW 1910.1200.

      3. Twelve lead dust wipe samples were taken, using 4 inch by 4 inch templates. Nine samples were above the federal standard of 40µg/ft² and nine samples were above the Army National Guard standard of 200µg/ft². Pictures of the lead sample wipes were taken (see attachment 6, photo's 13 to 24). The sample submission and the analytical lead results were enclosed in the report (see attachment 3). The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
Large Garage Surface, Rm. 150	M13010	740 µg/ft²
West End Floor, Rm. 150	M13110	2750 µg/ft²
Top of Mat Surface, Rm.150	M13210	BRL

Note 1: BRL means Below Recorded Limit
Note 2: µg/ft² refers to micrograms or one millionth of a gram per square foot

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Location:	Surveyor's Field No:	Results:
Floor, Rm.150	M13310	835 μg/ft²
Pallet Surface, Rm.151	M13410	489 μg/ft²
Under Chair, Rm.151	M13510	258 μg/ft²
Shelf Surface, Rm.151	M13610	394 μg/ft²
Floor, Rm.153	M13710	916 μg/ft²
Under Wooden Table, Rm.153	M13810	BRL
Metal Shelf, Rm.153	M13910	BRL
Floor, Rm.152	M14010	414 μg/ft²
Metal Shelf, Rm.153	M14110	214 μg/ft²

Note 1: BRL means Below Recorded Limit
Note 2: μg/ft² refers to micrograms or one millionth of a gram per square foot

4. Drill Hall: Conducting drill and ceremonies, unloading supplies and community events were conducted. Illumination levels ranged from 34-60 FC's.

5. Three Storage Rooms and a Weight Room (Old Indoor Firing Range) were in the armory. The indoor firing range had been closed since 1988.

6. Large Storage Building: Units equipment was stored in locked cages.

7. Due to the low noise levels (administrative areas) there was no requirement for a Hearing Conservation Program. M-Day and permanent party soldiers had earplugs and earmuffs.

8. A listing of Meridian Armory personnel was shown in attachment 4.

9. A floor plan of the armory was included in attachment 5.

10. A Sample HAZCOM SOP was artached as attachment 9.

4. VENTILATION/ ILLUMINATION SURVEY RESULTS:

a. Men's Restroom Exhaust Ventilation, Room 141.

1. The 3 ceiling exhaust vents are inoperative. A large floor fan keeps the air circulating to help keep the humidity levels down.

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2. Illumination Levels: The following additional illumination level readings and deficiencies were noted during the survey and are reported below.

LOCATION (FC)	Number of Fixtures/ Lights per Fixture	Number of Burned Out Tubes, Lamps & Other Deficiences	Illumination Foot Candles
Classroom, Rm. 129	9 Fixtures, 3 each		70-108
Hallway	14 Fixtures, 2 each	5 tubes out	
Family Assistance Rm.124	2 Fixtures, 4 each	2 tubes out	100-185
B Company, Rm.125	4 Fixtures, 3 each		33-78
B Company, Rm.128	2 Fixtures, 3 each		80-85
HHC, Rm.126	4 Fixtures, 3 each 5 Fixtures, 1 each	1 tube out 1 desk light out	54-99
HHC, Rm.124	4 Fixtures, 4 each 3 Fixtures, 1 each	5 tubes out 2 desk lights out	67-99
S-3, Rm.130	9 Fixtures, 3 each	10 tubes out; Conserving energy	52-76
S-1, Rm.133	4 Fixtures, 4 each	2 tubes out	45-122
Conference Rm.123	4 Fixtures, 4 each	4 tubes out	12-94
S-1, Rm.132	2 Fixtures, 3 each		72-109
Copy Rm.131	2 Fixtures, 3 each	1 tube out	42-45
S-4, Small Area: Telecommunications and Computer Room	1 Fixture, 3 each	1 tube out; No air conditioning in room	350-360
S-4, Rm.134	4 Fixtures, 3 each	1 tube out	35-425
XO, Rm.121	4 Fixtures, 3 each		36-69
CDR, Rm.120	2 Fixtures, 4 each		67-85
CDR, Rm.119	4 Fixtures, 3 each	5 tubes out	42-78
Small Female Latrine	1 Fixture, 2 each	1 tube out, Vent works	45-47
Small Male Latrine	1 Fixture, 2 each	Vent works	52-53
Air Conditioning, Rm.118	2 Fixtures, 2 each		42-58
Storage Rm.136	1 Fixture, 2 each		25-27
S-1, Storage, Rm.153	4 Fixtures, 2 each		15-28
S-3, Storage, Rm.152	2 Fixtures, 2 each		10-17
S-4, Storage, Rm.151	2 Fixtures, 2 each		13-21
Weight Rm.150	4 Fixtures, 4 each		13-29
Drill Hall	28 Fixtures, 1 each	1 lamp out	34-60
Small Weight Rm.147	3 Fixtures, 2 each		36-40
Kitchen, Rm.147	12 Fixtures, 2 each 2 Fixtures, 1 each	Stove Exhaust Works Explosion Proof Covers	20-72
Small Storage Room	2 Fixtures, 2 each		29-34
Supply, Rm.108	7 Fixtures, 2 each	Air Conditioner Leaks	30-63
Supply Office, Rm.109	2 Fixtures, 2 each		41-54

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

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LOCATION	Number of Fixtures/ Lights per Fixture	Number of Burned Out Tubes, Lamps & Other Deficiencies	Illumination Foot Candles (FC)
Supply Storage, Rm.143	6 Fixtures, 2 each		37-53
Female Latrine, Rm.142	3 Fixtures, 3 each 2 Fixtures, 2 each	3 vents work	44-77
Male Latrine, Rm.141	4 Fixtures, 3 each 2 Fixtures, 2 each	6 tubes were out; 3 exhaust vents were inoperative;	4-54
Supply Storage, Rm.140	16 Fixtures, 2 each	Caged off	5-36
HHC Supply, Rm.139	13 Fixtures, 2 each 4 Fixtures, 1 each	Caged off	23-107
HHC Supply Vault	2 Fixtures, 2 each		45-48
HHC Supply, Small Office			
Large Outdoor Warehouse	10 Fixtures, 4 each	40 tubes out, Inaccessible to lights due to enclosed cages; Can't get to switch to turn on large exhaust fan due to cage.	4-148
Storage Building, S-4	1 Fixture, 2 each		100-125
Storage Bldg, S-3	1 Fixture, 2 each	Light fixture off of frame.	54-55

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

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If work practices change, a new assessment should be made on the controls in place.

5. TECHNICAL ASSISTANCE:

POC for further assistance concerning this evaluation is Non-Responsive

Non-Responsive

Industrial Hygiene Technician

CF:
State Safety Office
ATTN: NGMS-S (Non-Responsive
2497 N West Street
Jackson, MS 39216-2497

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Attachment 1

HEALTH HAZARD INFORMATION MODULE: INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

ARLOC	INSTALLATION	BLDG/RM NO.
28000	MISSISSIPPI ARMY NATIONAL GUARD	MERIDIAN ARMORY

LOCATION/CODE	OPERATION/CODE
AD	ADO/SAH

SURVEY DATE	EVALUATOR
SEPTEMBER 23, 2010	Non-Responsive

MACOM/CODE	SUBMACOM/CODE	SUPERVISOR
NG	XX	Non-Responsive

TELEPHONE/DSN NO.	UNIT/ORGANIZATION	RAC	FREQUENCY (hrs/day)
Non-Responsive	BRIGADE SPECIAL TROOPS CMD	3	8-9 hrs/day

NO. CIV(S)	NO. MIL	NO. CONTRACTORS	NO. LOC(S)	NO. OTHER
1	17			

SECTION 2: FACILITY DATA

LAB HOODS	VAPOR DEGREASERS	SPRAY BOOTHS
0	0	0
MAINTENANCE BAYS	**OPEN SURFACE TANKS**	**VENTILATION UNITS**
0	0	2

SECTION 3: SURVEY DATA

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED	STATUS
2 GMV (DRILL HALL)	ADEQUATE	GMV	GMV	ACCOM
OTH (DRILL HALL)	34-60 FTC ADEQUATE	FTC	50 FTC (20-50 NOMINAL RANGE)	ACCOM
OTH (CLASSROOM)	82-108 FTC ADEQUATE	FTC	100 FTC (50-100 NOMINAL RANGE)	ACCOM
CFM (MEN'S LATRINE)	INADEQUATE	CFM	50-70 CFM	RECMD

PERSONAL PROTECTIVE EQUIPMENT (R= REQUIRED; U = UTILIZED)

GLOVES	R/U	RESPIRATOR	NIOSH TC NO.	MANUFACTURER	R/U
ACID	/	AIR LINE			/
COLD SURFACES	/	ABRASIZE BLASTING HOOD			/
HOT SURFACES	/	DISPOSABLE			/
NBC AGENTS	/	FULL FACE AIR PURIFYING			/
OIL	/	1/2 FACE AIR PURIFYING			/
SOLVENTS	/	1/4 FACE AIR PURIFYING			/
SURGICAL GLOVES	/	SELF CONTAINED			/

EYES/FACE	R/U	HEARING	R/U	BODY	R/U	HEAD/FIT	R/U
CHEMICAL SPLASH	/	CANAL CAPS	/	APRONS	/	COLD WEATHER BOOTS/HATS	/
FULL FACE SHEILD	/	EARPLUGS	X/X	COLD WEATHER CLOTHING	/	HARD HATS	/
CHEMICAL/SAFETY	/	HELMETS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SAFETY/IMPACT	/	MUFFS	/	FULL BODY SUIT	/	SAFETY/CONDUCTIVE SHOES	/
WELDING HELMET	/	MUFF/EARPLUG COMBO	/	BDU'S	X/X		/

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HEALTH HAZARD INFORMATION MODULE: INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

(CONTINUATION)
SECOND PAGE

ARLOC	INSTALLATION	BLDG/RM NO.
28000	MISSISSIPPI ARMY NATIONAL GUARD	MERIDIAN ARMORY

LOCATION/CODE	OPERATION/CODE
AD	ADO/SAH

SURVEY DATE	EVALUATOR
SEPTEMBER 23, 2010	Non-Responsive

SECTION 4: HAZARD INVENTORY DATA

CAS CODE	HAZARD DESCRIPTION	PAC	EPC
7439-92-1	LEAD, INORGANIC DUSTS, AS PB	2	B

SECTION 5: PERSONNEL DATA

LAST NAME	FIRST NAME	MI	SEX	SSN	CATEGORY
Non-Responsive					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					AGR
					CIV

Non-Responsive

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HEALTH HAZARD INFORMATION MODULE: INDUSTRIAL HYGIENE SURVEY
(For use of this form, see HHIM User's Guide)

(CONTINUATION)
THIRD PAGE

ARLOC	INSTALLATION	BLDG/RM NO.
28000	MISSISSIPPI ARMY NATIONAL GUARD	MERIDIAN ARMORY

LOCATION/CODE	OPERATION/CODE
AD	ADO/SAH

SURVEY DATE	EVALUATOR
SEPTEMBER 23, 2010	Non-Responsive

SECTION 6: COMMENTS

Ceiling lights were inaccessible due to the enclosed cages in the large outdoor warehouse.

Supply room 108 had a leaky AC unit. A bucket was used to catch the water.

The men's room exhaust fans were inoperative. A large floor fan was used to keep the humidity down.

There was no air conditioning in the telecommunications/computer room in the S-4 area.

The armory storage rooms were located in an old indoor firing range.

MSDS's were kept in a binder with an inventory list at the beginning of each area.

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Attachment 2

HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 1

PAGE 1 OF 5

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
3M SPRAY ADHESIVE	8040-00-181-7761	115-10-6	☒	☒	☐	☐	☐	24 oz	365	.2 oz	12	12	Ø			
		109-66-0	☐	☐	☐	☐	☐									
		67-64-1	☐	☐	☐	☐	☐									
WATER DISPERSING COMP	6850-00-142-9409	71-55-6	☒	☒	☐	☐	☐	16 oz	365	.5 oz	10	10	Ø			
		79-98-6	☐	☐	☐	☐	☐									
SPRAY PAINT GLOSS WHITE	8010-00-290-6983	75-09-2	☒	☒	☐	☐	☐	13 oz	365	.2 oz	5	5	Ø			
		13463-67-7	☐	☐	☐	☐	☐									
		108-88-3	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 1

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
SPRAY PRINT LACQUER GRN	8010-00-721-9483	9052-41-3	☒	☒	☐	☐	☐	12oz	365	.4oz	12	12	Ø			
		6472-89-8	☐	☐	☐	☐	☐									
		1330-20-7	☐	☐	☐	☐	☐									
SPRAY PRINT LACQUER RED	8010-00-958-8147	100-41-2	☒	☒	☐	☐	☐	12oz	365	.4oz	12	12	Ø			
		108-88-3	☐	☐	☐	☐	☐									
		1330-20-7	☐	☐	☐	☐	☐									
		110-54-3	☐	☐	☐	☐	☐									
		74-98-6	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 1

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
SPRAY PAINT GLOSS BLACK	8010-00-290-6584	74-97-6	☒	☒	☐	☐	☐	12oz	365	.4oz	12	12	Ø			
		78-93-3	☐	☐	☐	☐	☐									
		1330-20-7	☐	☐	☐	☐	☐									
SPRAY PAINT LUSTERLESS BLACK	8010-00-616-9143	110-19-0	☒	☒	☐	☐	☐	12oz	365	.4oz	12	12	Ø			
		108-88-3	☐	☐	☐	☐	☐									
		67-64-1	☐	☐	☐	☐	☐									
		64742-88-7	☐	☐	☐	☐	☐									
SPRAY PAINT GLOSS OLIVE GREEN	8010-00-584-3149	64742-88-7	☒	☒	☐	☐	☐	12oz	365	.4oz	12	12	Ø			

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 1

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
PAD METAL POLISH	7920-00-823-9818	64742-88-7	☒	☐	☐	☐	☐	2 GAL	365	.1	2	2	Ø			
		8052-41-3	☐	☐	☐	☐	☐									
TENT PATCH ADHESIVE	8040-00-264-3818	108-88-3	☒	☐	☐	☐	☐	8 oz	365	.102	5	5	Ø			
		67-64-1	☐	☐	☐	☐	☐									
PAINT TRAFFIC MARKING	8010-01-019-9776	1317-65-3	☐	☐	☐	☐	☐	5 GL	365	.1	5	5	Ø			
		13463-67-7	☐	☐	☐	☐	☐									
PAINT LATEX	8010-00-823-7962	57-5-6	☒	☐	☐	☐	☐	1 GL	365	.1	2	2	Ø			
		25265-71-4	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 1

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED (CHRONIC) HEALTH HAZARD	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
COATING POLYURETHANE ALIPHATIC	8010-01-284-2935	123-86-4	☒	☒	☐	☐	☐	1GL	365	.1	2	2	Ø			
		14464-46-1	☐	☐	☐	☐	☐									
		25982-31-2	☐	☐	☐	☐	☐									
K-KOTE SEALING COMP.	8030-01-360-4584	108-88-3	☒	☒	☐	☐	☐	GL	365	.1	2	2	Ø			
		79-93-3	☐	☐	☐	☐	☐									
		112-81-7	☐	☐	☐	☐	☐									
		108-10-1	☐	☐	☐	☐	☐									
			☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MA[illegible]L INVENTORY

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE: 29 MAR 07

STORAGE AREA: Cabinet [redacted] 1

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Electron	6850-01-371-8048							16 oz	365	0.01	4	4					
Marker Magic	6850-01-186-0859							16 oz	365	0.01	3	3					
Skillcraft Glass Cleaner	7930-01-326-8110							16 oz	365	0.01	24	24					
Cleaning Compound	6850-00-926-2275							16 oz	365	0.01	5	5					
Glass Cleaner	7930-00-664-6940							8 oz	365	0.05	38	38					
Automatic Gel Deoderizer	6840-01-207-3915									0.01	5	5					
All Purpose Cleaner	7930-00-926-5280							16 oz	365	0.05	43	43					
Simple Green Hand Cleaner	8520-01-370-2162							1 gal	365	0.05	8	8					
Zep 40								16 oz	365	0.01							
Dellight Liquid Soap								1 gal	365	0.05	3	3					

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 2

PAGE 1 OF 2 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
FLOOR STRIPPER	7930-01-380-8324	141-43-5	☐	☐	☐	☐	☐	5GL	365	.1	2	2	Ø			
		1344-09-8	☐	☐	☐	☐	☐									
		1310-73-2	☐	☐	☐	☐	☐									
WAX JOHNSON COMPOSITE	7930-01-380-8387	9011-15-8	☐	☐	☐	☐	☐	5GL	365	.1	6	6	Ø			
		1336-21-6	☐	☐	☐	☐	☐									
		34590-94-8	☐	☐	☐	☐	☐									
JOHNSON OVER & UNDER	7930-01-380-8367	9011-15-8	☐	☐	☐	☐	☐	1GL	365	.1	5	5	Ø			
		111-90-0	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS:(# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G. V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 2

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY (FIRE / SUDDEN RELEASE OF PRESSURE / REACTIVITY / IMMEDIATE HEALTH HAZARD (ACUTE) / DELAYED HEALTH HAZARD (CHRONIC))	SIZE CDN	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
JOHNSONS SHOWPLACE	7930-01-380-8406	111-90-0	☐ ☐ ☐ ☐ ☐	/Bx	365	.1	1	1	Ø			
		78-51-3	☐ ☐ ☐ ☐ ☐									
SPRAY 9	7930-01-346-5283	139-08-2	☐ ☐ ☐ ☐ ☐	/6L	365	.1	5	5	Ø			
		2949-28-3	☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MA[illegible]L INVENTORY

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE:

STORAGE AREA: Cabinet [illegible]

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Polish Plastic	7930-00-093-5374							16 oz	365	45	45						
Penetrating Oil	9150-00-261-7899							16 oz	365	5	5						
CLP	9150-01-053-6698							1 gal	365	7	7						

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE:

STORAGE AREA: #6 HAZMAT BLDG

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 3

PAGE 1 OF 1 PAGE

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	PRESSURE RELEASE OR PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
CLEANING COMP.																
WINDSHIELD	6850-00-926-2275	67-56-1	☒	☒	☐	☐	☐	PT	365	.5	12	12	Ø			
		111-42-2	☐	☐	☐	☐	☐									
LUBRICANT																
DOCID FILM	9150-01-260-2537	108-65-6	☒	☒	☐	☐	☒	PT	365	.5	12	12	Ø			
		78-93-3	☐	☐	☐	☐	☐									
		1317-33-6	☐	☐	☐	☐	☐									
JOHNSON																
SPRAY BUFF	7930-01-380-8365	64742-49-9	☒	☐	☐	☐	☐	5 GL	365	.1	5	5	Ø			
		111-90-0	☐	☐	☐	☐	☐									
		26027-38-3	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS:(# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MA .L INVENTORY

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE:

STORAGE AREA: Cabinet 3

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Over & Under Floor Wax	4650-00-45766							1 gal	365	1 gal	4	4					

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE:

STORAGE AREA: #6 HAZMAT BLDG

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY STORAGE AREA: CABINET 4 PAGE 1 OF 2 PAGES

LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
15/40 ENGINE OIL	9150-01-422-8899	64742-54-7	☐	☐	☐	☐	☐	QT	365	.1	12	12	Ø			
GREASE AUTOMOTIVE/ARTILLERY	9150-01-197-7689		☐	☐	☐	☐	☐	GL	365	.1	1	1	Ø			
HYDRAULIC FLUID	9150-00-111-6256		☐	☐	☐	☐	☐	QT	365	.1	12	12	Ø			
BREAK FREE CLP	9150-01-054-6453	68037-01-4	☒	☐	☐	☐	☐	PT	365	.1	10	10	Ø			
		64742-47-8	☐	☐	☐	☐	☐									
		103-09-3	☐	☐	☐	☐	☐									
CLP	9150-01-053-6688	68037-01-4	☒	☐	☐	☐	☐	GL	365	.1	5	5	Ø			
		64742-47-8	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS:(# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: CABINET 4

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE (ACUTE) HEALTH HAZARD	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
CLP	9150-01-102-4473	68037-01-0	☒	☐	☐	☐	☐	02.	365	.1	10	10	Ø			
		64742-47-8	☐	☐	☐	☐	☐									
		103-09-3	☐	☐	☐	☐	☐									
ISOPROPYL ALCOHOL	6810-00-753-4993	67-63-0	☒	☒	☐	☐	☐	PT.	365	.1	5	5	Ø			
BRAKE FLUID SILICON	9150-01-102-9455	63148-62-9	☐	☐	☐	☐	☐	GL	365	.1	5	5	Ø			
		126-73-8	☐	☐	☐	☐	☐									
10/30 LUBE OIL	9150-00-188-9858	68649-42-3	☐	☐	☐	☐	☐	5 GL	365	.1	3	3	Ø			
			☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

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Section 313 Chemicals

HAZARDOUS M/ AL INVENTORY

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE:

STORAGE AREA: Outside 1

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Hydralic Fluid	9150-00-111-6256								365	0.01	17	17					
Exterior Paint	8610-00-418-4667							5 gal	365	0.01	2	2					
Anti-Freeze	7930-01-342-5316							5 gal	365	0.01	1	1					
Roof Coating								5 gal	365	0.01	1	1					
Anti-Freeze	6850-01-464-9125							1 gal	365	0.05	16	16					
Lubricating Oil	9150-01-421-1427								365	0.1	33	33					
Anti-Freeze	6850-01-441-3218							1 gal	365	0.05	3	3					
Lube Oil Engine	9150-00-186-6668							5 gal	365	0.1	1	1					
Absorbent																	
Deionize Water																	

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-6.3
2 LBS=1 QT 1LB=1 PT

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE:

STORAGE AREA: #6 HAZMAT BLDG

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY STORAGE AREA: CABINET 5 PAGE 1 OF 2 PAGES
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ	TF
ZEP 40 GLASS CLEANER	7930-01-294-5523	67-63-0	☒	☒	☐	☐	☐	16 oz	365	.2	15	15	Ø				
		111-76-2	☐	☐	☐	☐	☐										
GLASS & STAINLESS STEEL CLEANER	7930-01-383-7923	111-76-2	☒	☒	☐	☐	☐	19 oz	365	.2	5	5	Ø				
		68176-85-7	☐	☐	☐	☐	☐										
UPHOLSTERY CLEANER	7930-00-724-9556	7732-18-5	☒	☒	☐	☐	☐	20.6 oz	365	.2	10	10	Ø				
		74-98-6	☐	☐	☐	☐	☐										
		106-97-8	☐	☐	☐	☐	☐										
ANTISTATIC SPRAY	6850-01-359-9211		☐	☒	☐	☐	☐	6 oz	365	.1	5	5	Ø				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 OT 1 LB = 1 PT

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Section 319
Chemicals

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY STORAGE AREA: CABINET 5

LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	PRESSURE RELEASE OR PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARDS (ACUTE)	DELAYED HEALTH HAZARDS (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
WINDEX	7930-01-381-3499	1336-21-6	☒	☒	☐	☐	☐	20 oz.	365	.2	20	20	Ø			
		111-76-2	☐	☐	☐	☐	☐									
		75-28-5	☐	☐	☐	☐	☐									
		7732-18-5	☐	☐	☐	☐	☐									
CORRECTION FLUID	7510-01-333-6242	142-82-5	☒	☐	☐	☐	☐	.6 oz	365	.3	12	12	Ø			
		64742-81-3	☐	☐	☐	☐	☐									
BISSELL CARPET CLEANER	NSN	107-98-2	☐	☒	☐	☐	☐	22 oz	365	.1	5	5	Ø			
			☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: HAZMAT BLDG 6

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT RECD	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
DEXTRON III	9150-01-353-4799		☐	☐	☐	☐	☐	QT	365	.2	24	24	Ø			
LUBE OIL 2 CYCLE	9150-00-117-8791	64742-54-7	☒	☐	☐	☐	☐	PT	365	.1	24	24	Ø			
		1330-20-7	☐	☐	☐	☐	☐									
		100-41-4	☐	☐	☐	☐	☐									
LUBE OIL 15/40	9150-01-178-4725		☐	☐	☐	☐	☐	QT	365	.1	36	36	Ø			
GENERAL PURPOSE ADHESIVE RUBBER	8040-00-281-1972	110-54-3	☒	☒	☐	☐	☐	GC	365	.1	12	12	Ø			
		9003-55-8	☐	☐	☐	☐	☐									
		9006-04-6	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-5.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

AGO Form 415R
1 Dec 95

Section 313 Chemicals

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: HAZMAT BLDG 6

PAGE 2 OF 3 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
K-KOTE SEALING COMPD.	8030-01-350-4984	108-88-3	☒	☒	☐	☐	☐	GC	365	.1	5	5	Ø			
		78-93-3	☐	☐	☐	☐	☐									
		117-81-7	☐	☐	☐	☐	☐									
		108-10-1	☐	☐	☐	☐	☐									
CLP	9150-01-053-6688	68037-01-4	☒	☐	☐	☐	☐	GC	365	.1	10	10	Ø			
		64742-47-8	☐	☐	☐	☐	☐									
GREASE AUTOMOTIVE/ARMORY	9150-01-197-7693		☐	☐	☐	☐	☐	TU	365	.1	24	24	Ø			
CLP	9150-01-054-6453	68037-01-4	☒	☐	☐	☐	☐	PT	365	.1	24	24	Ø			

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: HAZMAT BLDG 6

PAGE 3 OF 3 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D.	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
CLP (CONT)	9150-01054-6453	64742-42-8	☐	☐	☐	☐	☐									
		103-09-3	☐	☐	☐	☐	☐									
ANTIFREEZE	6850-00-181-7933	107-21-1	☐	☐	☐	☐	☐	5GL	365	.1	2	2	Ø			
		111-46-6	☐	☐	☐	☐	☐									
		7758-11-4	☐	☐	☐	☐	☐									
JOHNSON NO RINSE STRIPPER	7930-01-380-8381	14143-5	☐	☐	☐	☐	☐	5GL	365	.1	5	5	Ø			
		1344-09-8	☐	☐	☐	☐	☐									
		1310-73-2	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: HAZMAT BLDG 7

PAGE 1 OF 1 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY (FIRE / SUDDEN RELEASE OF PRESSURE / REACTIVITY / IMMEDIATE HEALTH HAZARD (ACUTE) / DELAYED HEALTH HAZARD (CHRONIC))	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
CLP	9150-01-053-6688	68037-04	☐ ☐ ☐ ☐ ☐	GL	365	.1	10	10	Ø			
		64742-47-8	☐ ☐ ☐ ☐ ☐									
HYDRAULIC FLUID	9150-00-111-6256		☐ ☐ ☐ ☐ ☐	QT	365	.1	24	24	Ø			
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									
			☐ ☐ ☐ ☐ ☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS:(# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MA .L INVENTORY

FACILITY NAME: Meridian, MS Armory
LOCATION 1551 65TH AVE S.
Meridian, MS 39307-7024
INVENTORY DATE: [illegible]

STORAGE AREA: Janitor Closet

PAGE 1 OF 1 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT RECD	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Scouring Powder	7930-00-721-1115							.14 oz	365	0.05	20	20					
Zep Double Play Hand Cleaner	8520-01-432-2618							1 gal	365	0.025	2	2					
Mcreil Hand Soap	8520-00-551-0376							12 oz	365	0.05	17	17					

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: JANITOR CLOSET

PAGE 1 OF 3 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	PRESSURE RELEASE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
BLEACH	6810-00-598-7346	7681-52-9	☐	☐	☐	☐	☒	GL	365	.5	10	10	Ø			
		7647-14-5	☐	☐	☐	☐	☐									
SIMPLE GREEN	7930-01-342-5315	111-76-2	☐	☐	☐	☐	☒	QL	365	.2	12	12	Ø			
DELIGHT HAND SOAP	8520-01-432-9618	N/A	☐	☐	☐	☐	☐	GL	365	.1	5	5	Ø			
DOUBLE PLAY HAND CLEANER	8520-00-142-5328	5988-27-5	☐	☐	☐	☐	☐	GL	365	.1	5	5	Ø			
LISA HAND SOAP	8520-00-551-0376	8052-98-0	☐	☐	☐	☐	☐	AX	365	.1	2	2	Ø			
		6138-31-9	☐	☐	☐	☐	☐									
		7647-14-5	☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7021

STORAGE AREA: JANITOR CLOSET

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY (FIRE / SUDDEN RELEASE OF PRESSURE / REACTIVITY / IMMEDIATE HEALTH HAZARD (ACUTE) / DELAYED HEALTH HAZARD (CHRONIC))	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
SCOURING POWDER	7930-00-721-8592	25155-30-0	☐ ☐ ☐ ☐ ☐	BX	365	.2	/	/	Ø			
		7758-29-4	☐ ☐ ☐ ☐ ☐									
SCOURING POWDER	7930-01-294-1115	25155-30-0	☐ ☐ ☐ ☐ ☐	BX	365	.2	/	/	Ø			
		7758-29-4	☐ ☐ ☐ ☐ ☐									
SCOURING POWDER	7930-01-294-1116	25155-30-0	☐ ☐ ☐ ☐ ☐	BX	365	.2	/	/	Ø			
		7758-29-4	☐ ☐ ☐ ☐ ☐									
GP CLEANER ALL PURPOSE	7930-00-926-5280	111-76-2	☐ ☐ ☐ ☐ ☐	BX	365	.2	2	2	Ø			
		64-02-8	☐ ☐ ☐ ☐ ☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME: G.V. "SONNY" MONTGOMERY ARMORY
LOCATION: 1551 65TH AVE SOUTH
MERIDIAN, MS 39307-7024

STORAGE AREA: JANITOR CLOSET

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CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ONSITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ
BOWL SOLUTION	N/A	139-08-2	☐	☐	☐	☐	☐	BX	365	.1	1	1	Ø			
		27479-28-3	☐	☐	☐	☐	☐									
BASIS BATHROOM CLEANER	7930-01-379-5417	7664-38-2	☐	☐	☐	☐	☐	#GL	365	.1	2	2	Ø			
			☐	☐	☐	☐	☐									
			☐	☐	☐	☐	☐									
			☐	☐	☐	☐	☐									
			☐	☐	☐	☐	☐									
			☐	☐	☐	☐	☐									

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS: (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS = 1 QT 1 LB = 1 PT

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 01, 2010
Non-Responsive
[redacted]ciates

RE: Meridian Armory

Dear Non-Responsive

Order No: 1009K48

Analytical Environmental Services, Inc. received 12 samples on 9/28/2010 10:05:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770)457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770)457-8198

AES

CHAIN OF CUSTODY

Work Order: 1009K48

Date: 9/23/10 Page 1 of 1

COMPANY: MINCKLER & Associates
1503 ZAIGER DRIVE
COLO SPGRS, CO 80915

ADDRESS: 1503 ZAIGER DRIVE
COLORADO SPRINGS, CO 80915

PHONE: [redacted]

SAMPLER: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (Dry weight)	Lead Lanthanum (EPA 6010)	REMARKS
1	M13010	9/23/10	1300			O	X	FLOOR GARAGE DOOR RM150
2	M13110	9/23/10	1310			O	X	W. End Floor, RM150
3	M13210	9/23/10	1320			O	X	top of mat, RM150
4	M13310	9/23/10	1325			O	X	Floor, RM151
5	M13410	"	1330			O	X	pallet surface, RM151
6	M13510	"	1340			O	X	[illegible] chair, RM151
7	M13610	"	1345			O	X	shelf surface, RM151
8	M13710	"	1355			O	X	Floor, RM153
9	M13810	"	1410			O	X	[illegible] wood on table RM153
10	M13910	"	1420			O	X	metal shelf, RM153
11	M14010	"	1430			O	X	Floor, RM152
12	M14110	"	1440			O	X	metal shelf, RM152
13								
14								

RELINQUISHED BY: [redacted] DATE/TIME: 9/23/10 RECEIVED BY: [redacted] DATE/TIME: 9/23/10 10:25

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: OUT / / VIA: IN / / VIA: CLIENT Pickup UPS MAIL COURIER GREYHOUND OTHER

PROJECT INFORMATION: PROJECT NAME: MERIDIAN ARMORY
PROJECT #: M0710
SITE ADDRESS: 1551 65th Ave S
Meridian MS 39307

[redacted]

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

Number of Containers

REPORT: Total # of Containers

Turnaround Time Requested: Standard 5 Business Days; 3 Business Day Rush; Next Business Day Rush; Same Day Rush (with surc.); Other

INTERNOREAN (Fax): Email: Y/N: Fax: Y/N
DATA PACKAGE: I II III IV

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Matrix) DW = Drinking Water (Matrix) O = Other (specify)
PRESERVATIVE CODES: N = Nitric acid + ice S = Sulfuric acid + ice H = Hydrochloric acid + ice NaOH = Sodium Hydroxide/Sodium + ice D = Other (specify) NA = None

SAMPLES RECEIVED AFTER 5PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY.
SAMPLES ARE FOR THE PURPOSE OF AN DATA ANALYSIS. COMPLETION OF REPORT MAY BE AFTER ANALYSIS OF OTHER SAMPLES HAS BEGUN.

2 of 5

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Non-Responsive

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Oct. 4. 2006 11:40AM No. 2880 P. 1

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Analytical Environmental Services, Inc

Date: 1-Oct-10

Lab Order:	1009K48
Client:	Mueller & Associates
Project:	Meridian Armory
Matrix:	Wipe
Date Received:	9/28/2010 10:05:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1009K48-001A	M13010	740	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-002A	M13110	2750	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-003A	M13210	BRL	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-004A	M13310	835	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-005A	M13410	489	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-006A	M13510	258	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-007A	M13610	394	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-008A	M13710	916	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-009A	M13810	BRL	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-010A	M13910	BRL	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-011A	M14010	414	ug, Total	180	1		09/23/2010	09/30/2010	TA
1009K48-012A	M14110	214	ug, Total	180	1		09/23/2010	09/30/2010	TA

Qualifiers: BRL - Not Detected at the Reporting Limit; DF - Dilution Factor

B - Analyte detected in the associated Method Blank

Results are blank corrected where applicable

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Attachment 4

MERIDIAN READINESS CENTER FULL TIME PERSONNEL

NAME RANK POSITION

Non-Responsive

[redacted]

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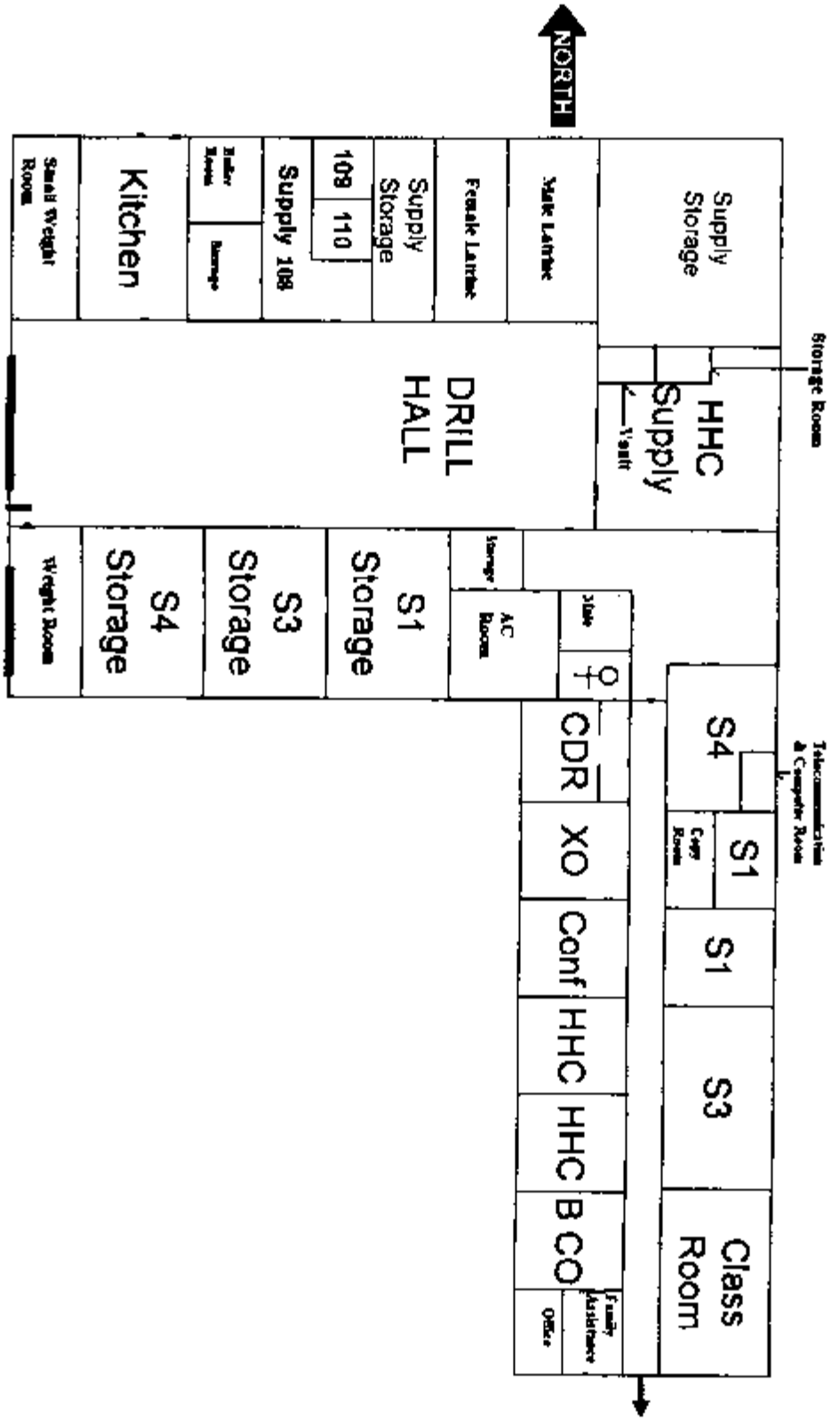
Attachment 5

Meridian Readiness Center



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Drill Hall Photo 1

Storage Areas (Old Indoor Firing Range) Photo 2

Large Storage Warehouse Photo 3

Unable to Change Lights, Due to Cage Photo 4

Warehouse Storage Area Photo 5

POL/Battery Storage Hazmat Bldg. Photo 6

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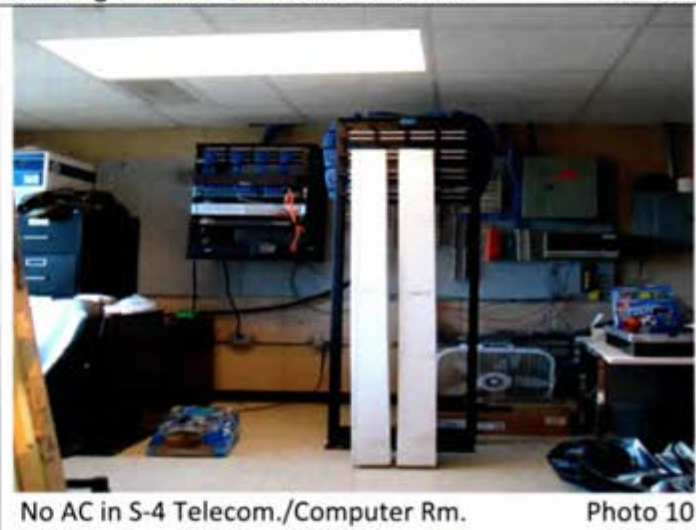
Supply Area Photo 7

Cooling Fan without Water Reservoir Photo 8

Air Conditioning Device Leaks Photo 9



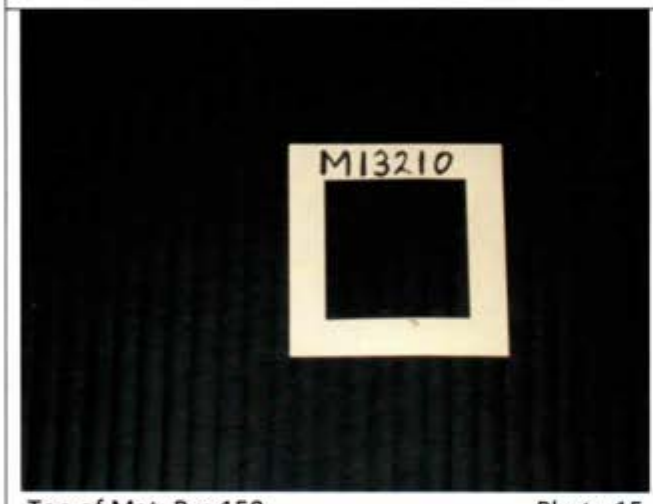
No AC in S-4 Telecom./Computer Rm. Photo 10

Miscellaneous Storage Bldg. Photo 11

Hazmat Buildings Photo 12

Large Bay Door Surface, Rm.150 Photo 13

West End Floor, Rm.150 Photo 14



Top of Mat, Rm.150 Photo 15

Floor, Rm.151 Photo 16

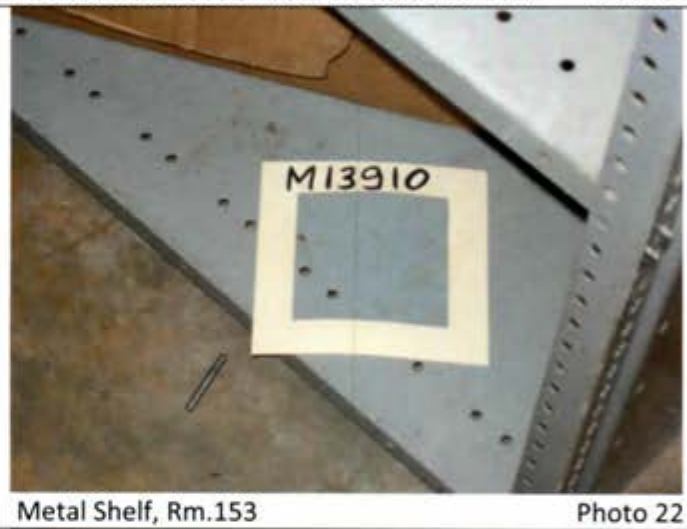
Pallet Surface, Rm.151 Photo 17

Bottom of Chair, Rm.151 Photo 18

No Exhaust Duct, Open to Plenum Photo 19

No Exhaust Duct Connected to Outside Vent Photo 20

Under Wooden Table, Rm.153 Photo 21



Metal Shelf, Rm.153 Photo 22

Floor, Rm.152 Photo 23

Metal Shelf, Rm.152 Photo 24

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Step-by-Step Summary

Cleaning: How To Do It

1. Include step-by-step procedures for precleaning, cleaning during the job, and daily and final cleanings in project design or specifications.
2. Assign responsibilities to specific workers for cleaning and for maintaining cleaning equipment.
3. Have sufficient cleaning equipment and supplies before beginning work.
4. If contamination is extensive, conduct precleaning of the dwelling unit. Move or cover all furniture and other objects.
5. Conduct ongoing cleaning during the job, including regular removal of large and small debris and dust. Decontamination of all tools, equipment, and worker protection gear is required before it leaves containment areas. Electrical equipment should be wiped and high-efficiency particulate air (HEPA) vacuumed, not wetted down, to minimize electrocution hazards.
6. Schedule sufficient time (usually 30 minutes to an hour) for a complete daily cleaning, starting at the same time near the end of each workday after lead hazard control activity has ceased.
7. For final cleaning, wait at least 1 hour after active lead hazard control activity has ceased to let dust particles settle.
8. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceilings, walls, trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.
9. Wash all surfaces with a lead-specific detergent, high-phosphate detergent, or other suitable cleaning agent to dislodge any ground-in contamination, then rinse. Change the cleaning solution after every room is cleaned.
10. Repeat step 8. To meet clearance standards consistently, a HEPA vacuum, wet wash, and HEPA vacuum cycle is recommended. For interim control projects involving dust removal only, the final HEPA vacuuming step is usually not needed (see Chapter 11). Other cleaning methods are acceptable, as long as clearance criteria are met and workers are not overexposed.
11. After final cleaning, perform a visual examination to ensure that all surfaces requiring lead hazard control have been addressed and all visible dust and debris have been removed. Record findings and correct any incomplete work. This visual examination should be performed by the owner or an owner's representative who is independent of the lead hazard control contractor.
12. If other construction work will disturb the lead-based paint surfaces, it should be completed at this point. If those surfaces are disturbed, repeat the final cleaning step after the other construction work has been completed.
13. Paint or otherwise seal treated surfaces and interior floors.
14. Conduct a clearance examination (see Chapter 15).
15. If clearance is not achieved, repeat the final cleaning.

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Step-by-Step Summary (continued)

16. Continue clearance testing and repeated cleaning until the dwelling achieves compliance with all clearance standards. As an incentive to conduct ongoing cleaning and a thorough final cleaning, the cost of repeated cleaning after failing to achieve clearance should be borne by the contractor as a matter of the job specification, not the owner.

17. Do not allow residents to enter the work area until cleaning is completed and clearance is established.

18. Cleaning equipment list:

- HEPA vacuums.
- Detergent.
- Waterproof gloves.
- Rags.
- Sponges.
- Mops.
- Buckets.
- HEPA vacuum attachments (crevice tools, beater bar for cleaning rugs).
- 6-mil plastic bags.
- Debris containers.
- Waste water containers.
- Shovels.
- Rakes.
- Water-misting sprayers.
- 6-mil polyethylene sheeting (or equivalent).

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Attachment 8

REFERENCES:

a) 40 CFR Part 745, 2001 and EPA's Toxic Substance Control Act (TSCA) 403

b) Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

c) AR 11-34, 15 February 1990, The Army Respiratory Program.

d) AR 385-10, 23 May 1988, Army Safety Program.

e) Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

f) Department of the Army Pamphlet 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g) National Guard Regulation (NGR) 385-10, 20 December 1989, Army National Guard Safety and Occupational Health Program.

h) DoD Instruction 1010.15 "Smoke Free DoD Workplace"

i) TB Med 530, Food Service

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HAZARD COMMUNICATION SAMPLE WRITTEN PROGRAM

NOTE: The written program must include the specific methods that are used to achieve compliance with the requirements of the Hazard Communication Standard (29 CFR 1910.1200). The specific methods described in this sample written program are for illustrative purposes, and other effective methods may be substituted to satisfy local needs or practices.

I. General

The purpose of this instruction is to ensure that (facility name) is in compliance with the OSHA Hazard Communication Standard (HCS) 29 CFR 1910.1200.

The [occupational safety and health manage (OS&H) manager) or other technically qualified designee] is the overall coordinator of the facility program acting as the representative of {senior facility official}, who has overall responsibility.

In general, each employee in the facility will be appraised of the substance of the HCS, the hazardous properties of chemicals they work with, and measures to take to protect themselves from these chemicals.

II. List of Hazardous Chemicals

The [OS&H manager or designee] will maintain list of all hazardous chemicals used in the facility, and update the list as necessary. The hazardous chemical list will be updated upon receipt of hazardous chemicals at the facility. The list of hazardous chemicals is maintained at [location].

III. Material Safety Data Shects (MSDS's)

The [OS&H manager or designee] will maintain an MSDS library on every substance on the list of hazardous chemicals in the [location]. The MSDS will consist of a fully completed OSHA Form 174 or equivalent. The [location manager or supervisor] will ensure that each [work area or shop] maintains an MSDS for hazardous materials used in that area. MSDS's will be readily available to all employees.

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The [local OS&H manager or designee] is responsible for acquiring and updated MSDS's. The [local OS&H manager or designee] will review each MSDS for accuracy and completeness and will consult with the [Area/Region/Headquarters OS&H manager] if additional research is necessary. The [local OS&H manager or designee] must clear all new procurements for the facility. Whenever possible, the least hazardous substance will be procured.

IV. Contractor Employers

The [local OS&H manager or designee], upon notification from the [responsible supervisor], will advise outside contractors of any chemical hazards which may be encountered in the normal course of their work on the premises.

V. Non-Routine Tasks

[Maintenance or other supervisors] contemplating a non-routine task, e.g. boiler repair, will consult with the [local OS&H manager or designee] and will ensure that employees are informed of chemical hazards associated with the performance of these tasks and appropriate protective measures. This will be accomplished by a meeting of supervisors and the OS&H manager with affected employees before such work is begun.

VI. Additional Information

Further information on this written program, the hazard communication standard, and applicable MSDS's is available at [location/telephone number].

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Recommendations:

1. An updated HAZCOM SOP was included in the report. Conduct semi-annual inventories on all chemicals in the facility. (RAC 3)

2. Due to the lead dust wipe results, it is recommended that the bay door surface and floor in room 150; the floor, pallets, chairs and the shelves in room 151; the floor in room 153 and the floor and metal shelves in room 152 (old indoor firing range) be thoroughly cleaned wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Kleen or Spic-n-Span. For additional lead cleaning measures, see attachment 7. (RAC 2)

3. Submit a work order to repair/replace the 3 exhaust fans in the men's restroom. Section 1203.5 of the 1997 SBC references ASHRAE 62, which requires 50 cfm of ventilation per water closet or urinal for most occupancies. Table 403.3 of the 1998 IMC (International Mechanical Code) requires 75 cfm of ventilation per water closet or urinal in toilet rooms for most occupancies (the International Building Code will reference the IMC for ventilation requirements). The Council decided that the 1998 IMC would govern the ventilation requirements of toilet rooms since this is the direction that the codes are headed with the International Codes. The proposed International Mechanical Code (IMC) for mechanical exhaust rates in restrooms is 75 CFM. (RAC 1)

4. Fix the air conditioning leak in Rm.108. (RAC 1)

5. Install an air conditioning unit in the telecommunications/computer room. Too much heat in the room will affect the electronics. (RAC 1)

6. Contact the Facility Maintenance Office in Jackson to figure out a way to change the ceiling lighting in the large outdoor warehouse. A possible solution would be to remove the top of the cages for easy access to the fixtures. (RAC 2)

7. Fix the deficiencies in 4a.2 of the report. (RAC 1)

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI

November 1, 2003

MEMORANDUM FOR Adjutant General, ATTN.: MS ARNG State Safety Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Air Sampling Results of Samples taken in Raymond Rd. Armory, Canton Armory, Louisville Armory, Biloxi Armory, Drew Armory, Indianola Armory, MS.

1. References.

a. 385-10, Army Safety Program

b. National Guard Regulation, NGR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft 30 March 1992

c. Army National Guard Guidelines for Converting Indoor Firing Ranges to other uses, Draft NGB Pam 385-16

d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

f. Guide to Occupational Exposure Values 2002, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

g. Industrial Ventilation, 23rd Edition, ACGIH, Cincinnati, Ohio.

h. USAEHA TG-141, 5 Mar. 1991, Guidelines for Air Sampling and Bulk sample Collection.

2. General. In view of elevated concentrations of lead in wipe tests, air sampling was conducted to determine occupational exposure. The sample results from air samples taken at the Armories in the subject line by Non-Responsive MS ARNG IHT, are enclosed.

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3. Findings.

a. A review of air sampling results show no airborne lead present at the time of the survey

4. Recommendations.

a. Continue monitoring possible airborne lead levels until lead mitigation is accomplished.

b. Follow the guidance of references given in paragraph 1 when performing lead mitigation in these facilities.

5. If additional information is needed about the industrial hygiene survey or lead wipe sample results, please contact Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive [redacted].

Non-Responsive [redacted]
Regional Industrial Hygienist

ENCL.
as

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

Non-Responsive [redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: Non-Responsive [redacted]
FAX

RE: Raymond Road Armory

Order No.: 0308018

Dear Non-Responsive [redacted]

Analytical Environmental Servs, Inc. received 8 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive [redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018
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FOIA Requested Record 7-2-16-0057-MISS
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0308018

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address *(complete address including Zip Code)*:
NATIONAL GUARD. REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (AUTOVON): Non-Responsive

Associated Bulk Samples — ☐ Yes — ☐ No

Bulk Sample No(s):

Samples Collected By: Non-Responsive

Date Collected: 16-17 July 2003

Date Shipped: 18 July 2003

Project Number: 0081

Sampled Installation: Raymond Road Armory

ARLOC:

Location (Bldg/Area): Office Spaces

Description of Operation (details on reverse):

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Sampling

Associated Complaints (be specific) (state NONE if applicable): NONE

Analysis Desired: Lead

Sampling Data

Sample No.	5	6	7	8	9	10	1	
Pump No.	649350	649481	649372	649473	649477	649346	649356	[redacted]
Time On	0810	0812	0815	0820	0823	0830	0820	[redacted]
Time Off	1410	1412	1415	1620	1623	1630	0301	[redacted]
Total Time (min)								[redacted]
Flow Rate (LPM)	1.96	1.95	1.96	1.97	1.96	1.97	1.98	[redacted]
Volume (Liters)								[redacted]
GA/BZ	GA	GA	GA	GA	GA	GA	GA	[redacted]
Employee Name/ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[redacted]
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 9-R, 1 Oct 84

Replaces AEHA Form 9, 1 Oct 80 which is obsolete.

Received: Albert Gen 01/03 12:00

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FOIA Requested Records 15-0085 (May)
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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotameter Setting	Date
649350	1.964	1.543		16-17 July 2003
649481	1.953	1.644		
649372	1.963	1.744		
649473	1.973	1.543		
649477	1.965	1.663		

Name of Calibrator

Operation

Source of Contaminant:

Lead Dust

Operation Employee(s) Perform:

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type: _____

☐ Protective Clothing Type: _____

☐ Gloves Type: _____

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other: _____

N/A

Field Notes/Additional Comments

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Results
for

National Guard Bureau Region-South IH

WorkOrder: 0308018

Client Reference: Raymond Road Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 5	**Lab ID: 001A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 6	**Lab ID: 002A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 7	**Lab ID: 003A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 8	**Lab ID: 004A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 9	**Lab ID: 005A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 10	**Lab ID: 006A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 1	**Lab ID: 007A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 008A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Date and Time 8/1/03 12:00

Work Order Number 0308018

Received by Non-Responsive

Checklist completed by Non-Responsive 8/1/03 (Date)

Reviewed by Non-Responsive (Initials) 8/1/03 (Date)

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✗	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC not signed when relinquished.

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]

National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: [redacted]
FAX

RE: Raymond Road Armory

Order No.: 0308017

Dear [redacted]

Analytical Environmental Servs, Inc. received 8 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018
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FOIA Requested Record 14-0025-MRS
Released by National Guard Bureau
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0308017

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is RSHB-LO.

Return Address (complete address including Zip Code):
NATIONAL GUARD. REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON): Non-Responsive IHT

Associated Bulk Samples: ☐ Yes ☐ No

Bulk Sample No(s):

Samples Collected By: Non-Responsive

Date Collected: 5/16 July 2003

Date Shipped: 18 July 2003

Project Number: 002

Sampled Installation: Raymond Road Armory

ARLOC

Location (BLDG/AREA): Office Spaces

Description of Operation (details on reverse)

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Media

Associated Complaints (be specific) (state NONE if applicable): NONE

Analysis Desired: Lead

Sampling Data 16 July 2003

Sample No.	8	9	10	1	2	3	4	
Pump No.	649356	640449	649350	649348	640449	[illegible]	649356	[redacted]
Time On	0909	0913	0920	0800	0801	0805	0807	
Time Off	1538	1537	1537	1400	1401	1405	1407	
Total Time (min)								
Flow Rate (LPM)	1.97	1.99	1.99	1.96	1.99	1.95	1.96	
Volume (Liters)								
GA/OZ	GA	GA	GA	GA	GA	GA	GA	
Employee Name/ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

Received 15 Aug 03 12:00

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May, 2018

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FOIA Requested Record # 015-0085 (MS)
Released by National Guard Bureau

Calibration Information

Pump No.	Calibration (l/min) Pre-Use	Calibration (l/min) Post-Use	Rotameter Setting	Date
649356	1.973	1.853		16 July 2003
649449	1.943	1.763		16 July 2003
649352	1.951	1.764		16 July 2003
649348	1.965	1.954		16 July 2003
649449	1.954	1.632		16 July 2003

Name of Calibrator

Operation

Source of Contaminant:

Lead

Operation Employee(s) Perform:

Desk Work

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type: N/A

☐ Protective Clothing Type:

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

Field Notes/Additional Comments

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Results
for
National Guard Bureau Region-South III

WorkOrder: 0308017

Client Reference: Raymond Road Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 8	**Lab ID: 001A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 9	**Lab ID: 002A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 10	**Lab ID: 003A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 1	**Lab ID: 004A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID: 005A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID: 006A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID: 007A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 008A**	**Date Sampled: 7/16/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Date and Time 8/1/03 12:00

Work Order Number 0308017

Received by Non-Responsive

Checklist completed by Non-Responsive [redacted] 8/1/03 Date

Reviewed by [redacted]

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓ 8/4/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC is not signed when relinquished

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

Non-Responsive [redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: Non-Responsive [redacted]
FAX

RE: Raymond Road Armory

Order No.: 0308019

Dear Non-Responsive [redacted]

Analytical Environmental Servs, Inc. received 8 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive [redacted]

Project Manager

3785 Presidential Parkway • Atlanta, Georgia 30340 • Tel: (770) 457-8177 • FAX: (770) 457-8188

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0308019

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code):
NATIONAL GUARD. REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Non-Responsive

Non-Responsive

[redacted]ed By	Date Collected	Date Shipped	[redacted]
[redacted]	19 July 2003	18 July 2003	☐ Yes ☐ No Bulk Sample No(s):

	Sampled Installation	ARLOC
004	Raymond Road Armory	

Location (BLDG/AREA)	Description of Operation (details on reverse)
JXN Offices	

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Media/Sampling

Associated Complaints (be specific) (state NONE if applicable)

Analysis Desired: Lead

Sampling Data

Sample No.	2	3	4	5	6	7	8	
Pump No.	649346	649348	649481	649377	649448	649477	649352	[redacted]
Time On	0826	0828	0826	0827	0829	0831	0832	[redacted]
Time Off	0302	0304	0305	0306	0308	0309	0310	[redacted]
Total Time (min)								[redacted]
Flow Rate (LPM)	1.98	1.98	1.97	1.95	1.96	1.95	1.96	[redacted]
Volume (Liters)								[redacted]
GA/BZ	GA	GA	GA	GA	GA	GA	GA	[redacted]
Employee Name/ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[redacted]
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 3-H, 1 Oct 84

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May, 2018
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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotameter Setting	Date
649346	1.983	1.652		17 July 2003
649348	1.982	1.736		
649481	1.973	1.583		
649377	1.953	1.634		
649449	1.964	1.443		

Name of Calibrator

Operation

Source of Contaminant:

Lead Dust

Operation Employee(s) Perform:

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment *(check if worn)*

☐ Respiratory Protective Equipment Type: _____

☐ Protective Clothing Type: _____

☐ Gloves Type: _____

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other: _____

NONE

Field Notes/Additional Comments

2

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Analytical Results
for

National Guard Bureau Region-South III

WorkOrder: 0308019

Client Reference: Raymond Road Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 2	**Lab ID: 001A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID: 002A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID: 003A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 5	**Lab ID: 004A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 6	**Lab ID: 005A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 7	**Lab ID: 006A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 8	**Lab ID: 007A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 008A**	**Date Sampled: 7/17/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(*) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Work Order Number 0308019

Checklist completed by [redacted] 8/1/03 Date

Date and Time 8/1/03 12:00

Received by [redacted]

Reviewed by [redacted] /03 Date

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓ AOC 8/4/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

COC not signed when relinquished.

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

Non-Responsive

National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: Non-Responsive
FAX

RE: Raymond Road Armory

Order No.: 0308021

Dear Non-Responsive

Analytical Environmental Servs, Inc. received 4 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018
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0308021

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is RSHB-LO.

Return Address (complete address including Zip Code):
NATIONAL GUARD. REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (AUTOVON): Non-Responsive [redacted] LHT

Assessment Bulk Samples: ☐ Yes ☐ No

Bulk Sample No(s):

Samples Collected By: Non-Responsive [redacted] LHT

Date Collected: 18 July 2003

Date Shipped: 18 July 2003

Project Name: 006

Sampled Installation: Raymond Road Armory

ARLOC

Location (Building): Office Supply Rm

Description of Operation (details on reverse):

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Media/Sampling

Associated Complaints (be specific) (state name if applicable):

Analysis Desired: Metals - Lead

Sampling Data

Sample No.	6	7	8					
Pump No.	649473	649399	649419					
Time On	0816	0800	0801					
Time Off	1430	1435	1436					
Total Time (min)								
Flow Rate (LPM)	1.98	1.99	1.95					
Volume (Liters)								
GA/BZ	GA	GA	GA					
Employee Name/ID		[illegible]	[illegible]					
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotameter Setting	Date
649472	1.983	1.649		18 July 2003
649371	1.996	1.732		
649449	1.954	1.643		

Name of Calibrator

Operation

Source of Contaminant: Lead Dust

Operation Employee(s) Perform:

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment *(check if worn)*

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type: None

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

Field Notes/Additional Comments

2

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Analytical Results
for

National Guard Bureau Region-South IH

WorkOrder: 0308021

Client Reference: Raymond Road Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 6	**Lab ID: 001A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 7	**Lab ID: 002A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 8	**Lab ID: 003A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 004A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
–: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GANGB

Date and Time 8/1/03 12:00

Work Order Number [redacted]

Received by [redacted]

Checklist completed by [redacted] 8/1/03 (Date)

Reviewed by [redacted] (Initials) (Date)

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No ✗ AOG 8/04/03	
Chain of custody signed when relinquished and received?	Yes ✗ AOG 8/4/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes *	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ~~[illegible]~~ Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC is not signed when relinquished.

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE: Raymond Road Armory

Order No.: 0308020

Dear [redacted]

Analytical Environmental Servs, Inc. received 8 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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May, 2018
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030820

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-CO.

Return Address (complete address including Zip Code):
NATIONAL GUARD, REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

[redacted] Non-Responsive /AUDOVON) HT

Samples Collected By: [redacted] Non-Responsive HT

Date Collected: 17-18 July 2003

Date Shipped: 18 July 2003

Associated Bulk Samples: ☐ Yes ☐ No

Bulk Sample No(s):

Project Number: 005

Samples Installation: Rayment Road Armory

AR Line:

Location (Bldg/Room): Offices/Supply Rm

Description of Operation (details on reverse):

☐ Persons Exposed ☐ Hrs/Day

Methods of Collection:

Associated Complaints (be specific) (enter NONE if applicable): NONE

Analysis Desired: Lead

Sampling Data

Sample No.	9	10	1	2	3	4	5	
Pump No.	649473	649350	649346	649401	649340	649477	649[illegible]	[redacted]
Time On	0817	0816	0813	0803	0805	0806	0810	
Time Off	0319	1522	1420	1422	1425	1426	1430	
Total Time (min)								
Flow Rate (LPM)	1.92	1.96	1.96	1.99	1.98	1.98	1.98	
Volume (Liters)								
GA/BZ	GA	GA	GA	GA	GA	GA	GA	
Employee Name/ID	[illegible]	587-11050	Undersed	[illegible]				
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 9-R, Oct 84

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May, 2018

FOIA Request/Record #14-0085 (MS)
Released by National Guard Bureau

Gen

Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotameter Setting	Date
649473	1.925	1.634		17-18 July 2003
649360	1.964	1.743		
649346	1.965	1.663		
649481	1.99	1.732		
649340	1.99	1.634		

Name of Calibrator

Operation

Source of Contaminant: Lead Dust

Operation Employee(s) Perform:

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type: NONE

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

Field Notes/Additional Comments

2

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Analytical Results
for

National Guard Bureau Region-South IH

WorkOrder: 0308020

Client Reference: Raymond Road Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 9	**Lab ID: 001A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 10	**Lab ID: 002A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 1	**Lab ID: 003A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID: 004A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID: 005A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID: 006A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 5	**Lab ID: 007A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 008A**	**Date Sampled: 7/18/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
–: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Work Order Number 0308020

Checklist completed by Non-Responsive [redacted] 8/1/03 Date

Date and Time 8/1/03 12:00

Received by Non-Responsive

Reviewed by [redacted] /03

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✗ not signed	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC not signed when relinquished.

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE: Canton Armory

Order No.: 0308023

Dear [redacted]

Analytical Environmental Servs, Inc. received 6 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

Posted to NGB FOIA Reading Room
May, 2018
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FOIA Requested Record
Released by National Guard Bureau

[illegible] SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

0308023

Return Address (complete address including Zip Code)

National Guard Bureau Region South IH Office
510 Plaza Drive, Suite 1530
College Park, GA 30349

Non-Responsive

Non-Responsive

Sampled By	Date Collected	Date Shipped	Samples
[redacted]	22 July 2003	24 July 2003	☐ Yes ☐ No Bulk Sample No(s):

008

Sampled Installation: Camp Armory

ARLOC

Location (BLDG/AREA): Office/open Space

Description of Operation (details on reverse)

☐ Persons Exposed ☐ Hrs/Day

Method of Collection

Associated Complaints (be specific) (state NONE if applicable): NONE

Analysis Desired: LEAD Dust.

Sampling Data

Sample No.	6	7	8	9	10			
Pump No.	649377	649473	649449	649477	649481			
Time On	0900	0855	0800	0857	0858			
Time Off	1500	1505	1510	1500	1500			
Total Time (min)								
Flow Rate (LPM)	1.977	1.993	1.997	1.999	1.997			
Volume (Liters)								
[illegible]	GA	GA	GA	GA	GA			
Employee Name/ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 8-R, 1 Oct 84

Replaces AEHA Form 9, 1 Oct 80 which is obsolete.

B-10

Received: Ahmet Cem 811103 12:00 USMAIL

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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotometer Setting	Date
649377	1.977	1.886		22 July 2002
649473	1.993	1.850		
649449	1.997	1.844		
649477	1.999	1.776		
649481	1.997	1.836		

Name of Calibrator

Operation

Source of Contaminant:

Lead Dust

Operation Employee(s) Perform:

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment *(check if worn)*

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type:

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

NONE

Field Notes/Additional Comments

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
Page 936 of 1454

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Analytical Results
for

National Guard Bureau Region-South IH

WorkOrder: 0308023

Client Reference: Canton Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 6	**Lab ID: 001A**	**Date Sampled: 7/22/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 7	**Lab ID: 002A**	**Date Sampled: 7/22/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 8	**Lab ID: 003A**	**Date Sampled: 7/22/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 9	**Lab ID: 004A**	**Date Sampled: 7/22/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 10	**Lab ID: 005A**	**Date Sampled: 7/22/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 006A**	**Date Sampled: 7/22/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Work Order Number 0308023

Checklist completed by Non-Responsive [redacted] 8/1/03 Date

Date and Time 8/1/03 12:00

Received by Non-Responsive [redacted]

Reviewed by [redacted] 8/1/03

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓ 8/4/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC is not signed when relinquished

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]

National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: [redacted]
FAX

RE: Louisville Armory

Order No.: 0308074

Dear [redacted]:

Analytical Environmental Servs, Inc. received 6 samples on 8/4/2003 12:50:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 RESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-0177 • FAX: (770) 457-8188

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Posted to NGB FOIA Reading Room
May, 2018
Released by National Guard Bureau

INDUSTRIAL HYGIENE AIR SAMPLE DATA

0308074

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For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
National Guard Bureau Region South IH Office
510 Plaza Drive, Suite 1530
Collegeville, GA 30349

Non-Responsive

Associated Bulk Samples ☐ Yes ☐ No

Bulk Sample No(s):

Samples Collected By	Date Collected	Date Shipped
Non-Responsive	24 July 2003	28 July 2003

Project Number: ~~0~~ 011

Sampled Installation: Louisville Armory

ARLOC

Location (BLDG/AREA): Office / Supply

Description of Operation (details on reverse)

2 Persons Exposed 8 Hrs/Day

Method of Collection: Air Media / Sampling

Associated Complaints (be specific) (state NONE if applicable)

Analysis Desired: Lead Dust

Sampling Data

Sample No.	1	2	3	4	5			
Pump No.	649348	649352	649356	649350	649346			
Time On	0800	0803	0805	0810	0815 Copper Room			
Time Off	1400	1403	1410	1620	1630			
Total Time (min)								
Flow Rate (LPM)	1.995	1.991	1.999	1.997	1.999			
Volume (Liters)								
GA/BZ	GA	GA	GA	GA	GA			
Employee Name/ID	Classroom	427334691	426431763	061678409	Copper Room			
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 9-R, 1 Oct 84

Replaces AEHA Form 9, 1 Oct 80 which is obsolete.

B-10

Received by: Viktor Vilebsky 8/4/03 12:50

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau

Calibration Information

BEST AVAILABLE COPY

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotometer Setting	Date
649348	1.995	2025		24 July 2003
649.352	1.991	2019		
649 356	1.999	1861		
649.350	1.997	2101		
649.346	1.999	1986		

Name of Calibrator

Operation

Source of Contaminant:

Lead Dust

Operation Employee(s) Perform:

Office/ Supply Duties

Ventilation: ☐ Local Exhaust ☒ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type: NONE.

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

Field Notes/Additional Comments

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
Page 941 of 1454

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Analytical Results
for

National Guard Bureau Region-South IR

WorkOrder: 0308074

Client Reference: Louisville Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 1	**Lab ID: 001A**	**Date Sampled: 7/24/2003**			**Media:**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID: 002A**	**Date Sampled: 7/24/2003**			**Media:**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID: 003A**	**Date Sampled: 7/24/2003**			**Media:**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID: 004A**	**Date Sampled: 7/24/2003**			**Media:**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 5	**Lab ID: 005A**	**Date Sampled: 7/24/2003**			**Media:**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 006A**	**Date Sampled: 7/24/2003**			**Media:**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Date and Time 8/4/03 12:50

Work Order Number 0308074

Received by Non-Responsive [redacted]

Checklist completed by Non-Responsive [redacted] 8/4/03 Date

Reviewed by [redacted] Initials / Date

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes __	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __	No __
Water - pH acceptable upon receipt?	Yes __	No __	Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Chain of custody was not signed when relinquished.

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: [redacted]
FAX

RE: Biloxi Armory

Order No.: 0308073

Dear [redacted]

Analytical Environmental Servs, Inc. received 6 samples on 8/4/2003 12:50:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

Posted to NGB FOIA Reading Room
May, 2018
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INDUSTRIAL HYGIENE AIR SAMPLE DATA

0309073

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For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
National Guard Bureau Region South IH Office
510 Plaza Drive, Suite 1930
College Park, GA 30349

Non-Responsive

Non-Responsive

Date Collected: 25 July 2003
Date Shipped: 28 July 2003

Bulk Sample No(s):

Project Number: 012

Sampled Installation: Biloxi Armory

ARLOC

Location (BLDG/AREA): Office/Supply

Description of Operation (details on reverse)

4 Persons Exposed | 8 Hrs/Day

Method of Collection: Air Media/Sampling

Associated Complaints (be specific) (state NONE if applicable): NONE

Analysis Desired: LEAD DUST

Sampling Data

Sample No.	1	2	3	4	5			
Pump No.	649352	649350	649356	649346	649348			
Time On	0900	0905	0905	0910	0915			
Time Off	1500	1503	1510	1515	1520			
Total Time (min)								
Flow Rate (LPM)	1.997	1.999	1.995	1.996	1.999			
Volume (liters)								
GA/BZ	GA	GA	GA	GA	GA			
Employee Name/ID	[illegible]	[illegible]	Carter Room	[illegible]	[illegible]			
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 9-R, 1 Oct 84

Replaces AEHA Form 9, 1 Oct 80 which is obsolete.

B-10

Received by: Viktor Vitebsky 8/4/03 12:50 (4)

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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotometer Setting	Date
649352	~~649350~~ 1.997	~~2.015~~ 2014		
649350	1.997	1.982		
649356	1.995	1.971		
649346	1.996	1.991		
649348	1.999	2.039		

Name of Calibrator

Operation

Source of Contaminant: Lead Dust

Operation Employee(s) Perform: Office/Supply Room work

Ventilation: ☐ Local Exhaust ☒ General Area ☐ None

Personal Protective Equipment (check if worn)

- ☐ Respiratory Protective Equipment Type:
- ☐ Protective Clothing Type: NONE
- ☐ Gloves Type:
- ☐ Goggles/Face Shield
- ☐ Ear Protection
- ☐ Other:

Field Notes/Additional Comments

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
Page 946 of 1454

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Analytical Results
for
National Guard Bureau Region-South IH

WorkOrder: 0308073

Client Reference: Biloxi Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 1	**Lab ID:** 001A	**Date Sampled:** 7/25/2003			**Media:**		**Air Vol.(L):** NA
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID:** 002A	**Date Sampled:** 7/25/2003			**Media:**		**Air Vol.(L):** NA
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID:** 003A	**Date Sampled:** 7/25/2003			**Media:**		**Air Vol.(L):** NA
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID:** 004A	**Date Sampled:** 7/25/2003			**Media:**		**Air Vol.(L):** NA
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 5	**Lab ID:** 005A	**Date Sampled:** 7/25/2003			**Media:**		**Air Vol.(L):** NA
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID:** 006A	**Date Sampled:** 7/25/2003			**Media:**		**Air Vol.(L):** NA
Lead	<2.00	–	–	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
–: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Date and Time 8/4/03 12:50

Work Order Number 0308073

Received by Non-Responsive

Checklist completed by Non-Responsive 8/4/03 (Date)

Reviewed by [redacted] (Initials) (Date)

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes __	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Chain of custody was not signed when relinquished

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349

TEL: [redacted]
FAX [redacted]

RE: Drew Armory

Dear [redacted]

Order No.: 0308025

Analytical Environmental Servs, Inc. received 3 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

Posted to NGB FOIA Reading Room
May, 2018
FOIA Requested Record #0-15508 (Mb)
Released by National Guard Bureau
Page 949 of 1454

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0308025

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is MSHB-LO.

Return Address *(complete address including Zip Code)*:
NATIONAL GUARD. REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact *(name/AUTOVON)*: Non-Responsive

[redacted] ☐ Yes ☐ No

Bulk Sample No(s):

Sample Collected By: Non-Responsive

Date Collected: 23 July 2003

Date Shipped: 24 July 2003

Project Number: 010

Sampled Installation: Drew Armory

ARLOC: ☐☐☐☐☐

Location *(BLDG/AREA)*: Office/Supply

Description of Operation *(details on reverse)*: Lead Dust

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Media

Associated Complaints *(be specific)* *(state NONE if applicable)*: NONE

Analysis Desired: Lead Dust Sampling

Sampling Data

Sample No.	1	2						
Pump No.	649348	649346						
Time On	0950	0958						
Time Off	1600	1600						
Total Time (min)								
Flow Rate (LPM)	1.997	1.997						
Volume (Liters)								
GA/BZ	GA	GA						
Employee Name/ID	[illegible]	[illegible]						
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst *(initials)*	Reviewed By *(initials)*	Date Received	Date Dispatched

Received Albert Gu 5/1/03 12:00

ASHA Form 8-R 1 Oct 84

Posted to NGB FOIA Reading Room
May 2018
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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotometer Setting	Date
649348	1.997	1.644		23 July 2003
699346	1.997	1.630		

Name of Calibrator

Operation

Source of Contaminant: Lead Dust

Operation Employee(s) Perform: Office Work

Ventilation: ☐ Local Exhaust ☒ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type:

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

NONE

Field Notes/Additional Comments

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Analytical Results
for

National Guard Bureau Region-South IH

WorkOrder: 0308025

Client Reference: Drew Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 1	**Lab ID: 001A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID: 002A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 003A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
Page 952 of 1454

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Work Order Number 0308025

Date and Time 8/1/03 [redacted]

Received by [redacted]

Checklist completed by [redacted] 8/1/03 Date

Reviewed by [redacted] /03 Date

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓ 8/1/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

Coc is not signed when relinquished.

Corrective Action

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE: Indianola Armory

Dear [redacted]

Order No.: 0308024

Analytical Environmental Servs, Inc. received 4 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

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Posted to NGB FOIA Reading Room
May, 2018

Requested Record Released by National Guard Bureau

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0308024

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code):
NATIONAL GUARD, REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)
Non-Responsive [redacted]

☐ Yes ☐ No

Bulk Sample No(s):

Non-Responsive [redacted]

Date Collected: 23 July 2003
Date Shipped: 24 July 2003

Sampled Installation: Indianola Armory

ARLOC

009

Location (BLDG/AREA): Office/supply

Description of Operation (details on reverse): Lead Sampling

2 Persons Exposed 8 Hrs/Day

Method of Collection: Air Media

Associated Complaints (as specific) (state NONE if applicable): None

Analysis Desired: Lead Dust

Sampling Data

Sample No.	1	2	3					
Pump No.	649350	649356	649352					
Time On	0900	0858	0857					
Time Off	1500	1500	1500					
Total Time (min)								
Flow Rate (LPM)	1.996	1.999	1.998					
Volume (Liters)								
GA/BZ	GA	GA	GA					
Employee Name/ID	425238641	425238641	425237648					
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

Received: Hunt Gen 8/1/03 12:00

Posted to NGB FOIA Reading Room
May, 2018
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Released by National Guard Bureau

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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotameter Setting	Date
689350	1.996	1.866		23 July 2002
689356	1.999	1.873		
689352	1.998	1.886		

Name of Calibrator

Operation

Source of Contaminant: Lead Dust

Operation Employee(s) Perform: office work

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment (check if used)

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type:

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

None

Field Notes/Additional Comments

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Results
for

National Guard Bureau Region-South IH

WorkOrder: 0308024

Client Reference: Indianola Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst	
Client ID: 1	**Lab ID: 001A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**	
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003	MCJ
Client ID: 2	**Lab ID: 002A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**	
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003	MCJ
Client ID: 3	**Lab ID: 003A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**	
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003	MCJ
Client ID: BLANK	**Lab ID: 004A**	**Date Sampled: 7/23/2003**			**Media: Filter**		**Air Vol.(L): NA**	
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003	MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Work Order Number 0308024

Date and Time 8/1/03 12:00

Received by Non-Responsive

Checklist completed by [redacted] 8/1/03 Date

Reviewed by [redacted] /03

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✗ AOG 8/11/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC not signed when relinquished

Corrective Action

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX [redacted]

RE: Raymond Road Armory

Dear [redacted]

Order No.: 0308016

Analytical Environmental Servs, Inc. received 8 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

3785 PARKWOOD BOULEVARD • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8108

Posted in NGB FOIA Reading Room
May, 2018
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0308016

INDUSTRIAL HYGIENE AIR SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-EO.

Return Address (complete address including Zip Code):
NATIONAL GUARD, REGION SOUTH IND HYG OFC.
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

Name of Consultant (name/AUTOVON): Non-Responsive

☐ Yes ☐ No

Bulk Sample No(s):

Samples Collected By: Non-Responsive

Date Collected: 15 July 2003

Date Shipped: 18 July 2003

Sampled Installation:

ARLOC

001

Location (BLDG/AREA): Raymond Road Armory

Description of Operation (details on reverse): Air Sampling for lead dust.

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Sampling Pumps

Associated Complaints (be specific) (state NONE if applicable): NONE

Analysis Desired: Lead

Sampling Data

Sample No.	1	2	3	4	5	6	7
Pump No.	649350	649481	649348	649377	649473	649346	649477
Time On	0815	0811	0818	0826	0842	0854	0904
Time Off	1424	1434	1434	1526	1442	1536	1535
Total Time (min)							
Flow Rate (LPM)	1.99	1.95	1.99	1.96	1.96	1.95	1.95
Volume (Liters)							
GA/BZ	GA	GA	GA	GA	GA	GA	GA
Employee Name/ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Laboratory No.							

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

Received: [illegible] 12:00

Posted to NGB FOIA Reading Room
May, 2018
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Calibration Information

Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotameter Setting	Date
649390	1.998	1.765		15 July 2003
649481	1.955	1.701		15 July 2003
649348	1.943	1.775		15 July 2003
649377	1.954	1.816		15 July 2003
649473	1.956	1.763		15 July 2003

Name of Calibrator: DRY CAL DC-LITE

Operation

Source of Contaminant:

Lead Dust

Operation Employee(s) Perform:

Office

Ventilation: ☐ Local Exhaust ☐ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type: NA

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

Field Notes/Additional Comments

2

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Work Order Number 0308016

Checklist completed by Non-Responsive [redacted] 8/1/03 Date

Date and Time 8/1/03 12:00

Received by Non-Responsive

Reviewed by [redacted]

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes X 8/1/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

COC is not signed when relinquished.

Corrective Action

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Analytical Results
for
National Guard Bureau Region-South IH

WorkOrder: 0308016

Client Reference: Raymond Road Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 1	**Lab ID: 001A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID: 002A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID: 003A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID: 004A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 5	**Lab ID: 005A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 6	**Lab ID: 006A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 7	**Lab ID: 007A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 008A**	**Date Sampled: 7/15/2003**			**Media: Filter**		**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

August 08, 2003

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX

RE: Canton Armory

Dear [redacted]

Order No.: 0308022

Analytical Environmental Servs, Inc. received 6 samples on 8/1/2003 12:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

3785 Pittsburgh Road • Atlanta, Georgia 30340 • Tel: (770) 457-8177 • FAX: (770) 457-8188

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INDUSTRIAL HYGIENE AIR SAMPLE DATA

0308022

For use of this form see AFRAMA IC 341; the proponent is HSEB-CO.

Return Address (complete address including Zip Code)
National Guard Bureau Region South IH Office
510 Plaza Drive, Suite 1530
[redacted]

Non-Responsive

Non-Responsive

Date Collected	Date Shipped	Bulk Samples ☐ Yes ☐ No
22 July 2003	23 July 2003	Bulk Sample No(s):

Sampled Installation: Canton Armory

AR LOC: [ ][ ][ ][ ][ ]

Location (BLDG/AREA): Offices/Supply Room

Description of Operation (details on reverse): Air Medical Sampling

☐ Persons Exposed ☐ Hrs/Day

Method of Collection: Air Medical Sampling

Associated Complaints (be specific) (state date if applicable): NONE

Analysis Desired: Lead

Sampling Data

Sample No.	1	2	3	4	5			
Pump No.	649350	649356	649348	649346	649352			
Time On	0850	0852	0845	0847	0848			
Time Off	1500	1500	1500	1500	1500			
Total Time (min)	1.95							
Flow Rate (LPM)	1.953	1.954	1.991	1.997	1.999			
Volume (Liters)								
GA/BZ	GA	GA	GA	GA	GA			
Employee Name/ID	381-72-4411	587652354	427433406	Briefing Room	Office Area			
Laboratory No.								

Results

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 9-R, 1 Oct 84

Replaces AEHA Form 9, 1 Oct 80 which is obsolete.

Received, Ahmet Gen 8/1/03 12:00 USAMRIIL

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Calibration Information

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Pump No.	Calibration (L/min) Pre-Use	Calibration (L/min) Post-Use	Rotometer Setting	Date
609350	1.953	1.994		23 July 2003
356	1.954	1.863		
348	1.991	1.860		
346	1.997	1.755		
352	1.999	1.980		

Name of Calibrator

Operation

Source of Contaminant: Lead Dust

Operation Employee(s) Perform: office | Gym

Ventilation: ☐ Local Exhaust ☑ General Area ☐ None

Personal Protective Equipment (check if worn)

☐ Respiratory Protective Equipment Type:

☐ Protective Clothing Type: NONE

☐ Gloves Type:

☐ Goggles/Face Shield

☐ Ear Protection

☐ Other:

Field Notes/Additional Comments

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Analytical Results
for
National Guard Bureau Region-South III

WorkOrder: 0308022
Client Reference: Canton Armory

Analyte	Concentration (ug)	Concentration (mg/m³)	Concentration (ppm)	Limit of Detection (ug)	Qual	Test Method	Date Analyzed /Analyst
Client ID: 1	**Lab ID: 001A**	**Date Sampled: 7/22/2003**		**Media: Filter**			**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 2	**Lab ID: 002A**	**Date Sampled: 7/22/2003**		**Media: Filter**			**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 3	**Lab ID: 003A**	**Date Sampled: 7/22/2003**		**Media: Filter**			**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 4	**Lab ID: 004A**	**Date Sampled: 7/22/2003**		**Media: Filter**			**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: 5	**Lab ID: 005A**	**Date Sampled: 7/22/2003**		**Media: Filter**			**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ
Client ID: BLANK	**Lab ID: 006A**	**Date Sampled: 7/22/2003**		**Media: Filter**			**Air Vol.(L): NA**
Lead	<2.00	--	--	2		NIOSH 7300	08/07/2003 MCJ

(a) Analysis indicates possible breakthrough; back section result is greater than 0% of the front section result.

General Notes:
<: Less than the indicated limit of detection (LOD).
--: Information not available or not applicable.
Back sections were checked and showed no significant breakthrough.

Posted to NGB FOIA Reading Room
May, 2018

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client GA NGB

Date and Time 8/1/03 12:00

Work Order Number 0308022

Received by Non-Responsive [redacted]

Checklist completed by Non-Responsive [redacted] 8/1/03 (Date)

Reviewed by [redacted] /03

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓ 8/4/03	No ✓	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Container/Temp Blank temperature in compliance?	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: COC is not signed when relinquished

Corrective Action

BEST AVAILABLE COPY

DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG

June 1, 2014

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN: [redacted] Supply NCO, 7314 Will Robbins Hwy, Nettleton, Mississippi 38858.

Thru: [redacted] Deputy State Surgeon, 1420 Raymond Road, Box G, Jackson, MS 39204.

SUBJECT: Transmittal of Industrial Hygiene Survey MS ARNG Nettleton Armory, Nettleton, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1998.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. USAEHA TG-141, January 2007, Guidelines for Air Sampling and Bulk sample Collection. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

2. .General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and follow up industrial hygiene sampling at the MS ARNG Nettleton Armory, Nettleton, Mississippi.

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ARNG-CSG

June 1, 2014

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Nettleton Armory, Nettleton, Mississippi.

3. Findings: The information that follows is based on the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. .

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2014. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2015 IHIP.

b. Have all HHIM data entered into the HHIM computer module.

c. Use the report to help in correcting all deficiencies noted.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the State Occupational Health Office for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of AR ARNG. If additional information is needed please contact Non-Responsive Regional Industrial Hygienist, Non-Responsive Non-Responsive

Non-Responsive

CF: Non-Responsive ate Safety Manager, 1410 Riverside Dr, Jackson, MS 39202.
cupational Health Nurse, 1410 Riverside Dr, Jackson, MS 39202.

Encl
as

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MSARNG)
At
Nettleton Armory
7314 Will Rogers Hwy
Nettleton, Mississippi 38858

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

By Non-Responsive
DBA: [redacted]

May 9, 2014

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- Introduction
- Site Description
- Scope of Work
- POC

Instrumentation ..... Page 1

Findings
- CO A Recruiter Retention Battalion ..... Page 1
- Lead Wipe Results ..... Page 2
- Area Lighting and Deficiencies ..... Pages 2 & 3

Attachments:
1. Health Hazard Information Module
2. Hazard Material List
3. Analytical Lead Results/Submission Form
4. Personal Roster
5. Facility Illumination Level Diagram
6. Pictures: 1-16
7. Lead Cleanup Procedures
8. References
9. Exhaust Flow Rates in Restrooms
10. Recommendations

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May 27, 2014

MEMORANDUM FOR: Mississippi Army National Guard, Attn: Non-Responsive, Supply NCO, 7314 Will Robbins Hwy, Nettleton, Mississippi 38858

SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module (HHIM) Survey, Nettleton Army National Guard, Nettleton, Mississippi

1. BACKGROUND: At the request of Non-Responsive, National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Consultation was performed at the Nettleton Army National Guard Armory, Nettleton, Mississippi on May 9, 2014. The POC was SSG Tarhasa Croon at (662) 963-7331. The mailing address was Company A, RRBN, P.O Box 370, Nettleton, Mississippi 38858. The purpose of the survey was to perform lead wipes, conduct ventilation readings and measure illumination levels. A HHIM field survey form was included in the report.

2. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples and illumination measurements. All other instrumentation was operated according to manufacture recommendations.

   a. REED LM-81LX; S/N: Q225589; Cal: 12/28/2013
   b. TSI, VelociCalc, Model 9545A, Cal: 03/2014
   c. Sensidyne Sampling Pump
   d. Extech SPL Meter, Model 407732, SN: Z191556, Cal: 02/26/2014
   e. Extech Calibrator, Model 407722, SN: Z191557, Cal: 02/26/2014

3. Findings:

   a. Company A, Recruiting and Retention Battalion

      1. Six AGR soldiers were assigned to the facility. The permanent party staff provided readiness and personnel support in the areas of pay, assignments, training, promotions, and schools.

      2. Material Safety Data Sheets (MSDS) were readily available on all chemicals used in the facility. Global Harmonization System information was given to Non-Responsive on the new MSDS's requirements.

      3. Drill Hall: Drill and ceremonies, unloading supplies and community events were conducted. Illumination levels ranged from 23 to 90 FC's. Wall mounted exhaust fans were noisy.

      4. Due to the low noise levels (administrative areas) there was no requirement for a Hearing Conservation Program. M-Day and permanent party soldiers had earplugs and earmuffs.

      5. Restroom exhaust flow rates were noted in attachment 9.

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6. Eight lead dust wipe samples were taken, using a 4 inch by 4 inch template. One sample was above the federal standard of 40µg/ft² and above the Army National Guard standard of 200µg/ft². Pictures of the lead sample wipes were taken (see attachment 6, photo's 6-13). The sample submission and the analytical lead results were enclosed in the report, see attachment 3. The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
Vault Floor-West Side	M026-14	BRL
Vault Floor-East Side	M027-14	236 µg/ft²
Old Range-Garage Floor Area	M028-14	BRL
Old Range-Left Floor	M029-14	BRL
Old Range-Bullet Trap Area Floor	M030-14	BRL
Old Range-Right Side Floor	M031-14	BRL
Old Range-Left Side Floor	M032-14	BRL
Old Range-Wall Surface	M033-14	BRL

Note 1: BRL means Below Recorded Limit
Note 2: µg/ft² refers to micrograms or one millionth of a gram per square foot

7. A listing of Nettleton Armory personnel was shown in attachment 4.

8. A floor plan of the armory with illumination levels was included in attachment 5.

4. VENTILATION/ ILLUMINATION SURVEY RESULTS:

a. Illumination Levels: The following illumination level readings and deficiencies were noted during the survey and are reported below. Some of the fluorescent tubes had been removed due to energy conservation measures.

LOCATION	Number of Fixtures/ Lights per Fixture	Number of Burned Out Tubes, Lamps & Other Deficiencies	Illumination Foot Candles (FC)
Drill Hall (door closed)	16 Fixtures, 4 each 1 Fixture, 2 each	Exhaust fans noisy 2 tubes out	23-90
Storage Area (Old Range)	16 Fixtures, 2 each 4 Fixtures, 1 each	Lead wipes taken 2 tubes out	10-29
Kitchen Area	8 Fixtures, 2 each 2 Fixtures, 1 each	Kitchen hood inoperative; missing EPL over bulb; gas smell from pilot light	35-77
Classroom	12 Fixtures, 4 each	1 tube out	3-33
Cleaning Room	2 Fixtures, 2 each		20-38
Female Restroom	2 Fixtures, 2 each		30-40
Male Restroom	6 Fixtures, 2 each		20-45
RSP Room	12 Fixtures, 4 each	5 tubes out	81T,75T,51T; 36-136

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's. Mail Room: 20-50 FC's. Note: T-Table

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LOCATION	Number of Fixtures/ Lights per Fixture	Number of Burned Out Tubes, Lamps & Other Deficiencies	Illumination Foot Candles (FC)
Conference Room	4 Fixtures, 4 each		92T, 96T; 46-93
Supply Area	12 Fixtures, 4 each 1 Fixtures, 2 each		75-120; 82D
Supply Storage		Right cage side	16-20
Vault	1 Fixture, 2 each	Lead wipes taken	9-15
Large Office	4 Fixtures, 4 each		38-107; 73D
Front Office	6 Fixtures, 4 each		76D,121D; 61-130
Right Small Office	2 Fixtures, 4 each		43D; 79-120
Left Small Office	2 Fixtures, 4 each	Ceiling tile missing	
Storage Room		Locked	

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

b. If work practices change, a new assessment should be made on the controls in place.

5. TECHNICAL ASSISTANCE:

POC for further assistance concerning this evaluation is [redacted]

[redacted]
Industrial Hygiene Technician

CF:
State Safety Office
ATTN: NGMS-S [redacted]
2497 N West Street
Jackson, MS 39216-2497

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Attachment 1

HEALTH HAZARD INFORMATION MODULE: INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

[redacted]

ARLOC	INSTALLATION	BLDG/RM NO.
28000	MISSISSIPPI ARMY NATIONAL GUARD	NETTLETON ARMORY

LOCATION/CODE	OPERATION/CODE
AD	ADO/SAH

SURVEY DATE	EVALUATOR
MAY 9, 2014	Non-Responsive [redacted]

MACOM/CODE	SUBMACOM/CODE	
NG	XX	Non-Responsive [redacted]

TELEPHONE/DSN NO.	UNIT/ORGANIZATION	RAC	[redacted] day)
Non-Responsive [redacted]	COMPANY A, RETRUITING & RETENTION BN	3	8-9 hrs/day

NO. CIV(S)	NO. MIL	NO. CONTRACTORS	NO. LOC(S)	NO. OTHER
	6			

SECTION 2: FACILITY DATA

LAB HOODS	VAPOR DEGREASERS	SPRAY BOOTHS
0	0	0
MAINTENANCE BAYS	**OPEN SURFACE TANKS**	**VENTILATION UNITS**
0	0	0

SECTION 3: SURVEY DATA

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED	STATUS
2 GMV (DRILL HALL)	ADEQUATE	GMV	GMV	ACCOM
OTH (DRILL HALL)	23-90 FTC ADEQUATE	FTC	50 FTC (20-50 NOMINAL RANGE)	ACCOM
OTH (CLASSROOM)	36-74 FTC ADEQUATE	FTC	50-70 CFM	ACCOM

PERSONAL PROTECTIVE EQUIPMENT (R= REQUIRED; U = UTILIZED)

GLOVES	R/U	RESPIRATOR	NIOSH TC NO.	MANUFACTURER	R/U
ACID	/	AIR LINE			/
COLD SURFACES	/	ABRASIZE BLASTING HOOD			/
HOT SURFACES	/	DISPOSABLE			/
NBC AGENTS	/	FULL FACE AIR PURIFYING			/
OIL	/	1/2 FACE AIR PURIFYING			/
SOLVENTS	/	1/4 FACE AIR PURIFYING			/
SURGICAL GLOVES	/	SELF CONTAINED			/

EYES/FACE	R/U	HEARING	R/U	BODY	R/U	HEAD/FIT	R/U
CHEMICAL SPLASH	/	CANAL CAPS	/	APRONS	/	COLD WEATHER BOOTS/HATS	/
FULL FACE SHEILD	/	EARPLUGS	X/X	COLD WEATHER CLOTHING	/	HARD HATS	/
CHEMICAL/SAFETY	/	HELMETS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SAFETY/IMPACT	X/X	MUFFS	X/X	FULL BODY SUIT	/	SAFETY/CONDUCTIVE SHOES	/
WELDING HELMET	/	MUFF/EARPLUG COMBO	/	BDU'S	X/X		/

SECTION 4: HAZARD INVENTORY DATA			
CAS CODE	HAZARD DESCRIPTION	PAC	EPC
7439-92-1	LEAD, INORGANIC DUSTS, AS PB	2	B

SECTION 5: PERSONNEL DATA					
LAST NAME	FIRST NAME	MI	SEX	SSN	CATEGORY
See Personnel Roster			M	NA	AGR

SECTION 6: COMMENTS

Lead wipes were performed in the old indoor range and the vault.
The kitchen hood had a bulb with an EPL cover missing.
Tile missing and one was stained.

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May, 2018

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HAZARDOUS M[illegible]IAL INVENTORY

ACILITY NAME NETTLETON ARMORY STORAGE AREA: FLAME CABINET PAGE 1 OF 2 PAGES

OCATION NETTLETON

NVENTORY DA 14-Feb-12

AL NAME ROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
OHESIVE, SPRAY	8040-00-995-7080	110-54-3	X	X		X	X	17 OZ	365	0.01	6	6	NA				
RAKE WASH	NA	NA	X	X		X	X	14OZ	365	0.01	2	2	NA				
TRIPPER, ASEBOARD	NA	NA	X	X		X		23OZ	365	0.01	1	1	NA				
ORROSION REVENTER	NA	NA	X	X		X	X	16OZ	365	0.01	3	3	NA				
LEANER, TAINLESS STEEL	NA	NA	X	X		X	X	19OZ	365	0.01	1	1	NA			100	
LEANER, GLASS	NA	NA	X					BTL	365	0.01	4	4	NA				
INDEX	7930-00-963-4068	67-63-0	X					QT	365	0.03	8	8	NA				
INE OIL	6840-00-584-3129	9/3/8002	X			X		32OZ	365	0.01	12	12	NA				
AINT, SPRAY	NA	NA	X	X		X	X	12OZ	365	0.01	11	11	NA				
OLISH, WOOD	NA	NA	X	X		X		17.7 O	365	0.01	1	1	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

AGO FORM 415R
1 Dec 96

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Attachment 2

Page 1 of 4

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HAZARDOUS M[illegible]AL INVENTORY

ACILITY NAME NETTLETON ARMORY STORAGE AREA: FLAME CABINET PAGE 2 OF 2 PAGES

OCATION NETTLETON

NVENTORY DA 14-Feb-12

ML NAME (ROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	EST AVG DAILY AMT	EST MAX AMT STORED	ANL AMT REC'D	ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
OLISH. METAL	NA	NA	X			X		16 OZ	365	0.01	1	1	NA				
LEANER, FLOOR	NA	NA	X		X	X		GAL	365	0.01	2	2	NA				
NDEX, UTDOOR	NA	NA	X			X		32 OZ	365	0.03	1	1	NA				
INE OIL	6840-00-584-3129	NA	X			X		GAL	365	0.01	3	3	NA				
LEANING OMPOUND OLEVENT	NA	NA	X		X	X	X	GAL	365	0.2	1	1	NA			100	
AINT	NA	NA	X			X		GAL	365	0.01	4	4	N/A				
OINT COMPOUND	NA	NA	X			X		48 OZ	365	0.01	1	1	NA				
NTI FOG OMPOUND	6850-00-227-1887	64-17-5	X			X		4 OZ	365	0.01	12	12	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

AGO FORM 415R
1 Dec 96

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FACILITY NAME: CO A RRBN | STORAGE AREA: HAZMAT BLDG | PAGE 1 OF 1 PAGES

LOCATION: NETTLETON, MS

INVENTORY DATE: 8 APRIL 2014

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	HAZARD CATEGORY: SUDDEN RELEASE OF PRESSURE	HAZARD CATEGORY: REACTIVITY	HAZARD CATEGORY: IMMEDIATE HEALTH HAZARD (ACUTE)	HAZARD CATEGORY: DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Lubricating Oil 10W	9150-01-496-1948	64741-88-4	X	X	X	X	X	GL	365		5-GL	5-GL					
Lubricating Oil 15W-40	9150-01-421-1424	68649-42-3	X	X	X	X	X	GL	365		5-GL	5-GL					
Lubricating Oil 15W-40	9150-01-422-8899	68649-42-3	X	X	X	X	X	GL	365		2-QT	2-QT					
HP Two Cycle Engine Oil		64742-54-7	X	X	X	X	X	OZ	365		13-OZ	13-OZ					
Dexron VI	9150-01-353-4798		X	X	X	X	X	QT	365		9-QT	9-QT					
Gasoline	9130-01-207-7039	71-43-2	X	X	X	X	X	GL	365		3-GL	3-GL					

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

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FACILITY NAME: CO A RRBN | STORAGE AREA: Flammable Cabinet | PAGE 1 OF 1 PAGES

LOCATION: NETTLETON, MS

INVENTORY DATE: 8 APRIL 2014

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY					SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT RECD	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
			FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)										
Quick Color Spray Enamel		64742-89-8	X	X	X	X	X	OZ	365		10-OZ	10-OZ					
Industrial Work Day		74-98-6	X	X		X		OZ	365		10-OZ	10-OZ					
Micrott Antibacterial Soap		141-43-5	X					OZ	365		24-OZ	24-OZ					

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-8.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

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Attachment 3
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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8171 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1405A99

Date: _____ Page _____ of _____

COMPANY: MINCKLER + Associates
ADDRESS: 1503 ZAIGER DRIVE COLO SPRGS, CO 80915
PHONE: [redacted] Non-Responsive
SAMPLER: [redacted] Non-Responsive

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	LEAD 4"x4"	REMARKS	No. # of Containers
1	M026-14	5/9/14	0735			WIPE	X	VAULT FL-WEST	
2	M027-14	"	0740			WIPE	X	VAULT FL - EAST	
3	M028-14	"	0745			WIPE	X	RANGE-GARAGE	
4	M029-14	"	0750			WIPE	X	RANGE-(L) FLOOR	
5	M030-14	"	0800			WIPE	X	RANGE- FRONT FL	
6	M031-14	"	0810			WIPE	X	RANGE-(R) side Fl	
7	M032-14	"	0815			WIPE	X	RANGE (L) side Fl	
8	M033-14	"	0820			WIPE	X	RANGE-WALL	
9									
10									
11									
12									
13									
14									

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

PRESERVATION (See codes)

[redacted] Non-Responsive

	DATE/TIME
2	9/14 11:40a
	12/14

PROJECT INFORMATION
PROJECT NAME: NETTLETON ARMORY
PROJECT #: 2
[redacted] Non-Responsive
(IF DIFFERENT FROM ABOVE) REGIONAL IH OFFICE
510 PLAZA DR. SUITE 1530
COLLEGE PARK, GA
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (notify req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER _____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Oct. 4. 2006 11:4 No. 2889 P. 2
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Analytical Environmental Services, Inc

Date: 19-May-14

Lab Order: 1405A99
Client: Minckler & Associates
Project: Nettleton Armory
Matrix: Wipe
Date Received: 5/12/2014 11:40:00 AM

LEAD ON WIPES (N7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1405A99-001A	M026-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-002A	M027-14	236	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-003A	M028-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-004A	M029-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-005A	M030-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-006A	M031-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-007A	M032-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS
1405A99-008A	M033-14	BRL	µg/ft²	180	1		05/09/2014	05/16/2014	JS

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

Results are blank corrected where applicable

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Attachment 4

AGR/ Full-time Personnel

Readiness NCO

Supply NCO

Admin NCO

RSP NCOIC

RSP Coordinator

RPS Coordinator

Non-Responsive

[redacted]

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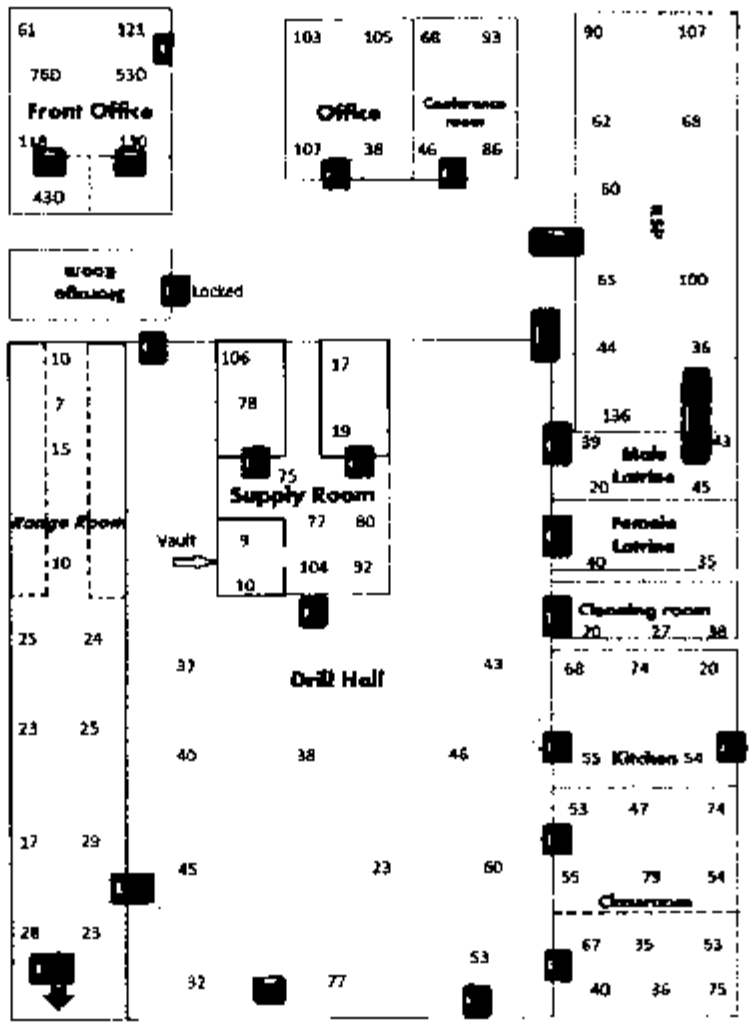
Attachment 5

Nettleton Armory Illumination Levels

Note: O-Desk



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Drill Hall Photo 1

Turning In Solvent Tank Photo 2

Old Indoor Firing Range Photo 3

Flammable Storage Cabinet Photo 4

Cages at End of Old Indoor Firing Range Photo 5

Lead Wipe, Vault Floor-West End Photo 6

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Lead Wipe, Vault Floor-East End Photo 7

Lead Wipe, Old IFR, Near Garage Door Photo 8

Lead Wipe, Left Side Floor, Old IFR Photo 9

Lead Wipe, Near Bullet Trap, Old IFR Photo 10

Lead Wipe, Right Side Floor, Old IFR Photo 11

Lead Wipe, Left Side Floor, Old IFR Photo 12

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Lead Wipe, Wall Surface, Old IFR Photo 13

Kitchen Hood Exhaust Inoperative Photo 14

No EPL Over Bulb, Kitchen Hood Photo 15

Missing, Stained Tiles in Main Office Photo 16

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Step-by-Step Summary

Cleaning: How To Do It

1. Include step-by-step procedures for precleaning, cleaning during the job, and daily and final cleaning in project design or specifications.

2. Assign responsibilities to specific workers for cleaning and for maintaining cleaning equipment.

3. Have sufficient cleaning equipment and supplies before beginning work.

4. If contamination is extensive, conduct precleaning of the dwelling unit. Move or cover all furniture and other objects.

5. Conduct ongoing cleaning during the job, including regular removal of large and small debris and dust. Decontamination of all tools, equipment, and worker protection gear is required before it leaves containment areas. Electrical equipment should be wiped and high-efficiency particulate air (HEPA) vacuumed, not wetted down, to minimize electrocution hazards.

6. Schedule sufficient time (usually 30 minutes to an hour) for a complete daily cleaning, starting at the same time near the end of each workday after lead hazard control activity has ceased.

7. For final cleaning, wait at least 1 hour after active lead hazard control activity has ceased to let dust particles settle.

8. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceilings, walls, trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.

9. Wash all surfaces with a lead specific detergent, high-phosphate detergent, or other suitable cleaning agent such as Mr. Clean or Spic-n- Span to dislodge any ground-in contamination, then rinse. Change the cleaning solution after every room is cleaned.

10. Repeat step 8. To meet clearance standards consistently, a HEPA vacuum, wet wash, and HEPA vacuum cycle is recommended. For interim control projects involving dust removal only, the final HEPA vacuuming step is usually not needed. Other cleaning methods are acceptable, as long as clearance criteria are met and workers are not overexposed.

11. After final cleaning, perform a visual examination to ensure that all surfaces requiring lead hazard control have been addressed and all visible dust and debris have been removed. Record findings and correct any incomplete work. This visual examination should be performed by the owner of an owner's representative who is independent of the lead hazard control contractor.

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12. If other construction work will disturb the lead-based paint surfaces, it should be completed at this point. If those surfaces are disturbed, repeat the final cleaning step after the other construction work has been completed.

13. Paint or otherwise seal treated surfaces and interior floors.

14. Conduct a clearance examination.

15. If clearance is not achieved, repeat the final cleaning.

16. Continue clearance testing and repeated cleaning until the dwelling achieves compliance with all clearance standards. As an incentive to conduct ongoing cleaning and a thorough final cleaning, the cost of repeated cleaning after failing to achieve clearance should be borne by the contractor as a matter of the job specifications, not the owner.

17. Do not allow residents to enter the work area until cleaning is completed and clearance is established.

18. Cleaning equipment list:

* HEPA vacuums.

* Detergent.

*Waterproof gloves.

* Rags.

* Sponges.

* Mops.

* Buckets.

* HEPA vacuum attachments (crevice tools, beater bar for cleaning rugs).

* 6-mil plastic bags.

* Debris containers.

* Waste water containers.

* Shovels.

* Rakes.

* Water-misting sprayers.

* 6-mil polyethylene sheeting (or equivalent).

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REFERENCES:

1. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

2. Army Regulation (AR) 40-5, 15 October 1990, Medical Service, Preventive.

3. AR 11-34, 15 February 1990, The Army Respiratory Program.

4. AR 385-10, 23 May 1988, Army Safety Program.

5. FC-Reg. 385-2, 1 July 1999, Ionizing and Nonionizing Radiation Protection Program

6. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

7. Technical Bulletin Medical (TB MED) 530, 1 January 1991, Food Service Sanitation

8. Department of the Army Pamphlet 40-503, 30 October 2000, The Army Industrial Hygiene Program.

9. National Guard Regulation (NGR) 385-10, 20 December 1989, Army National Guard Safety and Occupational Health Program.

10. Industrial Ventilation, 26th Edition, American Conference of Governmental Industrial Hygienist (ACGIH), Cincinnati, Ohio.

11. IES Lighting Handbook, Application Volume, 1987, Illumination Engineering Society of North America.

12. Army Facilities Management Information Document on Mold Remediation Issues, Technical Guide (TG) 277.

13. DoD Instruction 1010.15 "Smoke Free DoD Workplace"

14. NGR 415-12, The Army National Guard Facility Construction

15. Lead-based paint inspections shall be performed in accordance with methods and standards established either by a State or Tribal program authorized by the EPA under 40 CFR 745.324, or by the EPA at 40 CFR 745.227(b) and (h).

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Attachment 9

Restrooms:

1. To solve the capture velocity in cubic feet/minute (CFM) of a round or rectangular shaped duct opening, the formula Q = AV must be used. The TSI air velocity meter automatically figured out the CFM once the data was inputted into the instrument. Based on that fact, the capture velocity of the functioning exhaust ducts are listed below:

   a. Men's Restroom; Velocity readings: Vent Duct: 147, 183, 208, 170 CFM's = **176 CFM AVG** (11 inch by 11 inch)

   b. Men's Shower Area; Velocity readings: Vent Duct: 127, 188, 242, 160 CFM's = **191 CFM AVG** (17 inch X 17 inch)

   c. Women's Restroom; Velocity readings: Vent Duct: 92, 117, 88, 119, 104 CFM's = 104 **CFM AVG** (11 inch X 11 inch)

   Section 1203.5 of the 1997 SBC references ASHRAE 62, which requires 50 cfm of ventilation per water closet or urinal for most occupancies. Table 403.3 of the 1998 IMC (International Mechanical Code) requires 75 cfm of ventilation per water closet or urinal in toilet rooms for most occupancies (the International Building Code will reference the IMC for ventilation requirements). The Council decided that the 1998 IMC would govern the ventilation requirements of toilet rooms since this is the direction that the codes are headed with the International Codes. The proposed International Mechanical Code (IMC) for mechanical exhaust rates in restrooms is 75 CFM. The men and women's restroom was slightly below the IMC requirement.

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Attachment 10

Recommendations:

1. Go to "Modification of the Hazard Communication Standard (HCS) to conform with the United Nations' (UN) Globally Harmonized System of Classification and Labeling of Chemicals (GHS)" http://www.osha.gov/ "While full compliance with the rule begins in 2015, OSHA is requiring that employees are trained on new label elements (i.e., pictograms, hazard statement, precautionary statements and signal words) and SDS format by December 1, 2013." ISN Newsletter. (RAC 3)

2. Due to the lead dust wipe result, it is recommended that the vault floor be thoroughly cleaned wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Kleen or Spic-n-Span. For additional lead cleaning measures, see attachment 7. (RAC 3)

3. Service and or repair the wall exhaust fans in the drill hall. (RAC 3)

4. Add an explosion proof cover on the kitchen hood light. (RAC 3)

5. Fix the deficiencies not covered in the above mentioned recommendations in 4a.1 of the report. (RAC 3)

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-ARS-IHSE (40-5f) July 3, 2008

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted] MS ARNG Philadelphia Armory, 911 Herman Alford Memorial Hwy, Philadelphia, MS 39350.

Thru: Non-Responsive [redacted], State Health Systems Specialist JFH-MS-MILPO, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey Report MS ARNG Philadelphia Armory, Philadelphia, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

   b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

   c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

   d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

   e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

   f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

   g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

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h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

k. Title 29, Code of Federal Regulations (CFR), 2004 rev., part 1910, Occupational Safety and Health Standards.

l. Reports dated April 30, 2008, Industrial Hygiene Survey, Non-Responsive Fayetteville, GA.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Philadelphia Armory, Philadelphia, MS.

b. The survey was conducted by Non-Responsive 583 Ginger Cake Rd, Fayetteville, GA 30214.

3. Recommendations. Understand that all findings and the recommendations documented in the enclosed report have been reviewed by the Regional Industrial Hygienist. Follow all recommendations made in the enclosed report. Request industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-08. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-09 IHIP.

b. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

c. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

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NGB-ARS-IHSE (40-5f) July 3, 2008

SUBJECT: Transmittal of Industrial Hygiene Survey Report MS ARNG Philadelphia Armory, Philadelphia, MS.

d. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

4. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive [redacted] Regional Industrial Hygienist, NGB-ARS-IHSE, Non-Responsive [redacted]

Non-Responsive [redacted]

CF: NGB-ARS-IHSE

Non-Responsive [redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

[redacted] te Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

ENCL.

as

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Non-Responsive
583 GINGER CAKE RD
FAYETTTEVILLE, GA 30214
Non-Responsive

April 30, 2008

Non-Responsive
MS Army National Guard Armory
911 Herman Alford Memorial Hwy
Philadelphia, MS 39350

RE: Baseline Industrial Hygiene Survey

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FINAL REPORT

FOR

BASELINE INDUSTRIAL HYGIENE SURVEY

MISSISSIPPI ARMY NATIONAL GUARD

PHILADELPHIA ARMORY

PHILADELPHIA, MS

DATE:

APRIL 16, 2008

PREPARED BY

Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
Non-Responsive

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Attachment 1 HHIM Forms

Attachment 2 Laboratory Reports: A/C-Heating System, Weapons Vault Racks And IFR- Drill Hall

Attachment 3 Photographs of the Facility

Attachment 4 Weapons Vault and IFR Sampling areas

Attachment 5 Schematic Drawing of Facility

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1.0 INTRODUCTION

At the request of the National Guard Bureau South Region Industrial Hygiene Office, Non-Responsive performed a Baseline Industrial Hygiene Survey at the MS ARNG Philadelphia Armory. The purpose of the survey was to perform a baseline survey to evaluate health hazards, controls present in the work site, collect lead swipe samples from renovated/inactive or closed Indoor Firing Ranges, Weapons Vault, A/C-Heating System, illumination survey and to make recommendations regarding health hazards associated with the work at the Philadelphia Armory.

The building was constructed around 1963 or 1964. The building was remodeled about ten years ago. A new metal roof was installed along with a new drop down ceiling. New A/C-Heating systems were installed at the time of the remodeling. The facility houses the HHD 298th Support Battalion and the 397th Maintenance Co. (-). The armory is used by the troops of the HHD 298th Support Battalion and the 397th Maintenance Co. (-) for their monthly weekend drills.

The 367th Maintenance. Co. with about 90 troops had 3 full time personnel at the time of the survey. The HHD 298th Support Battalion with 60+ troops had about 10 full time personnel at the time of the survey. The employee is assigned to perform administrative duties Monday-Friday 7:00am-4: 30pm. The facility houses administrative areas, classrooms, supply rooms, a weapons vault, deactivated indoor firing range, a kitchen and a drill hall. Personnel reported that the A/C-Heating units work well both in summer or winter. Personnel is not sure when the IFR area was "cleaned". A schematic drawing of the facility can be found in Attachment 5.

The facility was visually examined and personnel consulted to assess potential hazards present. Health Hazard Information Modules were completed. Illumination survey was performed throughout the facility.

2.0 INSTRUMENTATION/CALIBRATION

The following instrumentation was used to obtain light measurements. The instrument used has been calibrated and was operated according to the manufacturer's recommendations:

- SPER SCIENTIFIC Light Meter
  GHOST WIPE, Lead wipes

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3.0 FINDINGS

Illumination

Illumination levels were recorded in administration offices, classrooms, the kitchen, the drill hall and the supply room. Light measurements throughout the facility were above IES guidelines. A few bulbs in the Drill Hall were either burned out or not turned on at the time of the survey. See Light Readings Table at the end of this section.

Administration

Personnel perform administrative duties that consist of reading, handling and generating paper work personnel support in the areas of pay, orders, training and schools. Computer use comprises a large portion of the working day, four to five hours per day. This continuous use of computers can in the long run lead to eyestrain and hand/wrist soreness. One personnel interviewed reported he has high blood pressure and that he takes medication to help control it. The other personnel interviewed reported no health problems at the time of the survey.

Motor Pool

The Philadelphia armory has a motor pool which includes trucks, trailers, MKT and generators. The vehicles are kept locked in a fenced and locked area behind the building. PMCS are performed at the monthly weekend drills. When major repairs are needed the vehicles are taken to the FMS # 2 located next door to the armory.

Drill Hall

There Drill Hall is located at the rear area inside the building. It is used for formation on weekend drills. There were tables, chairs, desk, boxes and other smaller items stored in the Drill Hall at the time of the survey. There are two weapons cleaning machines and a flammables cabinet located the right side towards the rear of the Drill Hall in the space where the IFR backstop and pit area were located next to the roll-up door. Personnel reported that the Drill Hall is used occasionally to clean weapons. Weapons are given an initial clean in the field after they are used. They are placed in the racks and brought back to the armory. The next time they meet, and then they finished cleaning the weapons using the weapons cleaning machines in the facility. Weapons are distributed from the vault in the Supply Room. The machines are IT48WC from Island Technology which uses Skysol dry cleaning solution. Weapons are set on uncovered tables to place a light coat of CLP and rags are used wipe out the excess oil. Personnel reported that the used rags are collected by the supply Sgt. and taken to the FMS facility for disposal. There are two exhaust ventilation fans located in the Drill Hall. They were working at the time of the survey. The Drill Hall is rented occasionally for

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outside activities such as wedding receptions, parties, concerts and family reunions.

Kitchen

The facility has a kitchen. The 367th has a mess section that cooks on weekend drills. Lunches are provided for this unit on Saturday and Sunday on weekend drills. The 298th does not have a mess section assigned as of now. A contract service for meals by a catering business has been used to provide meals on weekend drills for this unit. The food is brought by the caterer in individually packed containers that are disposed of after eating on the tables which are cleaned after lunch. The kitchen was clean the day of the survey and no food particles were found anywhere.

Deactivated Indoor Firing Range

There is deactivated Indoor Firing Range (IFR) at this facility. It was located inside the Drill Hall at the right side of this area. The backstop was located in an extension at the end of the Drill Hall to the right of the roll-up door (See Attachment 4). Personnel reported that it was "cleaned" but they do not know when. The backstop was removed and the sand in the pit area was removed but it was not filled with concrete. The two weapons cleaning machines and a flammables cabinet are stored in the space where the IFR backstop and pit area were located (See pictures). All lead samples were taken using a 10 inch by 10 inch template. The US environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. Five wipe samples were taken from where the backstop was the pit area and the Drill Hall floor (See Attachment 4, IFR sampling areas for locations). Two of the samples were above the EPA clearance level of 40ug/ft2 and all five samples were below the NG Bureau limit of 200ug/ft2. See Table 1 for results.

Table 1

Sample Number	Sample Location	Results	
41	Floor in front, where bullet backstop was, left side, 25" from left wall	91	130ug/ft2
42	Floor in front, where bullet backstop was, right side, 29" from right wall	124	177ug/ft2
43	Floor, right side, pit area, 57" from the front wall	25	35.7ug/ft2

44	Floor, on edge of the pit, on Drill Hall floor (Left corner)	26	37ug/ft2
45	Floor, on Drill Hall, right side. 39" from pit edge and 31" from wall	BRL	BRL
61	Blank	BRL	BRL

Weapons Vault

The Philadelphia Armory has a weapon storage vault located in the supply room. The vault is shared by both units using the facility. Personnel stated that accountability and issuing of weapons would be performed in this area. As stated in the Drill Hall section, personnel reported that the Drill Hall is occasionally to clean weapons in an area close to the weapons cleaning machines. (See Drill Hall section for details).The vault had a de-humidifier at the time of the survey. It is turned on all the time. It has no outside drainage. Personnel stated that it is emptied when full. All lead samples were taken using a 10 inch by 10 inch template. The US environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. Six wipe samples were taken from the weapons vault racks and on top of 50 Cal. weapons box (See attachment 4 for sampling areas). Five of the samples were above the EPA clearance level of 40ug/ft2 and none was above the NG Bureau limit of 200ug/ft2. See table 2 for results.

Table 2

Sample Number	Sample Location	Results	
46	Weapons Vault, Rack and Floor (See Attachment 4)	75ug	107ug/ft2
47	Weapons Vault, Rack and Floor (See Attachment 4)	84ug	120ug/ft2
48	Weapons Vault, Rack and Floor (See Attachment 4)	104ug	148ug/ft2
49	Weapons Vault, Rack and Floor (See Attachment 4)	106ug	151ug/ft2

50	Weapons Vault, Rack and Floor (See Attachment 4)	69ug	98ug/ft2
60	Weapons Vault, Top of 50 Cal. weapons box (See Attachment 4)	BRL	BRL
61	Blank	BRL	BRL

A/C System

Central A/C-Heating systems are used to cool the administration offices plus the classrooms and the supply room. The systems were installed when the building was remodeled about ten years ago. Personnel reported that the systems work well in the summer and winter. Personnel also reported that the filters are changed on a regular basis. All lead samples were taken using a 10 inch by 10 inch template. Nine wipe samples were collected from the supply air outlet grills from offices used by personnel of the armory and from the filters (See pictures). All samples were below the EPA clearance level of 40ug/ft2 and the NG Bureau clearance level of 200ug/ft2. See Table 3 below for results.

Table 3

Sample Number	Sample Location	Results
51	A/C-Heating Outlet, Orderly Room	BRL
52	A/C-Heating Outlet, SFC Germany Office	BRL
53	A/C-Heating Outlet, SFC Luke Office	BRL
54	A/C-Heating Outlet, S-1 Office	BRL
55	A/C-Heating Outlet, MAJ Michael Office	BLR
56	A/C–Heating Outlet, Classroom 1	BRL
57	A/C-Heating Filter, Fan Side	BRL
58	A/C-Heating Filter, Supply Side	BRL

59	A/C-Heating Outlet, Commander Office	BRL
61	Blank	BLR

Material Safety Data Sheets

The supply room located next to the drill hall. It has a weapons vault and storage area. I was unable to locate the MSDS book the day of the survey. There was a flammables cabinet, located in the pit area (As described before) adjacent to the Drill Hall. There were two hazmat sheds (One foe each unit) located behind the building that contains oils, and cleaning supplies. It was well organized. A Hazardous Materials Inventory List should always be placed in the flammables cabinet and the hazmat sheds.

Light Readings

Light measurements were taken in various locations throughout the facility. The results were compared to guidelines recommended by the Illuminating Engineering Society (IES). The results of the survey are shown in Table 4.

Table 4

Location	Light Reading (footcandles)	IES Recommendation (footcandles)
Orderly Room	40-95 (Avg. 67)	50-100
ADO SFC Germany Office	57-78 (Avg. 66)	50-100
ADO SFC Luke Office	57-87 (Avg. 76)	50-100
ADO SFC Alford, SSG Tucker Office	50-78 (Avg. 65)	50-100
ADO MAJ Michael Office	59-94 (Avg. 82)	50-100
ADO CPT Brownlee Office	50-83 (Avg. 62)	50-100
ADO CSM Office	58-98 (Avg. 78)	50-100
Classroom 1	60-79 (Avg. 68)	50-100
Classroom 2	60-85 (Avg. 71)	50-100
Kitchen	60-141 (Avg. 87)	50-100

ADO Supply Room Office	**48-54 (Avg. 51)**	**50-100**
Supply Room (Storage)	**42-53 (Avg. 49)**	**20**
Commander Office	**60-102 (Avg. 86)**	**50-100**
Drill Hall	**21-67 (Avg. 35)**	**30**

Light measurements throughout the facility were above IES guidelines. A few bulbs in the Drill Hall were either burned out or not turned on at the time of the survey. ANSI RP7-1991.

4. REFERENCES

- Guide to Occupational Exposure 2000, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.
- Title 29, Code of Federal Regulations (CFR). 2000, revision, Part 1910. Occupational Safety and Health Standards
- AR 40-5, Preventative Medicine, 15 October 1990.
- AR 385-10, The Army Safety Program, 23 May 1988.
- National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 40-503, The Army Industrial Hygiene Program, 30 October 2000.
- Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.
- Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

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[redacted]

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RECOMMENDATIONS

- Recommend checking the light bulbs in the Drill Hall to determine if the few that were out the day of the survey was the result of not been turned on or that they were burned out. If they are burned out, consider changing them with new bulbs. See Light Readings Section.

- Recommend that when using computers for extended periods of time, personnel should take occasional breaks and change position to minimize the possibility of eyes and/or hands/wrist injury.

- Continue to ensure that weapon maintenance and cleaning is done in a well-ventilated area. Continue to practice good personal hygiene by washing hands after handling and cleaning weapons and ammunition. Ensure that the weapons racks are well cleaned before placing them back in the vault.

- Recommend that the Occupational Safety and Health office or the appropriate state office review the lead wipe clearance sample results of this facility to determine if the IFR will need further decontamination.

- Ensure that a Hazardous Materials Inventory List will always be present in the flammables cabinet and the hazmat sheds. And that the lists are updated as new products are added or removed.

- Recommend that the tables used to clean weapons be covered during the procedure to prevent contamination with the cleaning products.

- Ensure that personnel and troops have knowledge of the location of the MSDS book. And is enrolled hazardous materials safety training.

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Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
Non-Responsive

April 30, 2008

Non-Responsive
MS Army National Guard Armory
911 Herman Alford Memorial Hwy
Philadelphia, MS 39350

RE: Baseline Industrial Hygiene Survey

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ATTACHMENT 1

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(For use of this form, see IHHM User's Instructions.)

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SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Philadelphia NS (Army) c. BLDG/RM NUMBER 30th MAINT Readiness Office

d. LOCATION/CODE AA / e. OPERATION/CODE ADO / f. DESCRIPTION _____

g. MACOM/CODE NG / [redacted] Non-Responsive

j. TELEPHONE/AUTOVON NUMBER [redacted] DE / i. SUPERVISO [redacted] Non-Responsive

m. NO CIV(S) _____ n. NO [redacted] CONTRACTOR(S) _____ k. RAC _____ l. FREQUENCY (Hrs Per Day) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/16/08 b. EVALUATOR (INITIALS) [redacted] Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting Office	07-78-Aug-66	FC	50-100	[illegible]

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

i. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
00VDT	eyeball strain computer work for long periods of time	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

				d. CATEGORY
Non-Responsive [redacted]				TGK

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

(1) Redeness NCO 367th MAINT CO
(2) Has been at this facility for 8 yrs
(3) Before at different Armories
(4) Computer work about 5 hrs a day
(5) No health problems.

* PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitor

Signature

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(For use of this form, see FIHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

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a. ARLOC _____ b. INSTALLATION Philadelphia MS Armory c. BLDG/RM NUMBER HHD 29 Sth Readiness NCO Office

d. LOCATION/CODE 4A / e. OPERATION/CODE ADO / f. DESCRIPTION

~~Readiness NCO~~ HHD 29 Sth Readiness NCO, Computer work about 6 hrs/day

g. MACOM/CODE NG / [redacted] DE / i. SUPERVIS[redacted]

j. TELEPHONE/AUTOVON NUMBER [redacted] k. RAC _____ l. FREQUENCY (Hr[redacted]

m. NO CIV(S) _____ n. NO MI[redacted] R(S) _____ o. NO LOC(S) _____ p. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4-16-08 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting office	57-87 Aug. 76	FC	50-100	Adj

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

i. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
DOVDT	eye/hand strain. Computer work for long periods of time	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. **PERSONNEL DATA**

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive					AGR

SECTION 7. **COMMENTS** *(Add blank sheet of paper if necessary)*

(1) Reo [illegible] NCO - HHD 298th 10yr AGR
(3) Has been at this facility - 3 yr
(4) Before to was in Vicks bang
(5) Computer work about 6 hrs/day
(6) No health problems.

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

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SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Philadelphia McArmory c. BLDG/RM NUMBER AO Office

d. LOCATION/CODE _____ e. OPERATION/CODE _____ f. DESCRIPTION _____

AO Computer work about 4-5 hr/day

g. MACOM/CODE NG / [redacted] DE — / i. SUPERVISOR _____

j. TELEPHONE/AUTOVON NUMBER [redacted] k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/16/08 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	59-94 & Avg. 82	FC	50-100	Adq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
POVDT	eye/hand strains. Continuous use of computer long periods	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

Non-Responsive

					d. CATEGORY
					AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

(1) A O - Adm officer
~~(2) Hasten hex for~~
~~(3) [illegible]~~
(2) Computer work 4 hr/dy
(3) No health problems

PRIVACY ACT STATEMENT

Title 6 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employer exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

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SECTION 1. DEMOGRAPHIC DATA

BEST AVAILABLE COPY

a. ARLOC _____ b. INSTALLATION Philadelphia MS Armory c. BLDG/RM NUMBER HHD 298th Operations NCO

d. LOCATION/CODE AA / e. OPERATION/CODE A PO f. DESCRIPTION Office Operations NCO 298th HHD, Computer work about 5-6 hr/day

g. MACOM/CODE NG / [redacted] ODE / i. SUPERVISOR [redacted]

j. TELEPHONE/AUTOVON NUMBER [redacted] k. RAC _____ l. FREQUENCY (Hrs P[redacted]

m. NO CIV(S) _____ n. NO M[redacted] OR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/16/08 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting - Office	57-87 (Aug 76)	FC	58-100	Adgt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
POVDT	eye/hand strain - Computer work for long periods of time	3	

BEST AVAILABLE COPY

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX		e. CATEGORY
Non-Responsive					~~AGR~~ Tech

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Operations. N C Ordnance 298th Since 58
② Has been here for 20 yrs.
③ Computer work about 5-6 hrs/day
④ No health problems

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

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Signature

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SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Philadelphia, MS Armory

c. LOCATION/CODE 44 / S-1 NCO, 4 Ton Assistant S-1 NCO, Computer work

d. OPERATION/CODE 1Dn / e. BLDG/RM NUMBER S-1-Fin

f. DESCRIPTION

g. MACOM/CODE NG / h. [redacted]

j. TELEPHONE/AUTOVON NUMBER [redacted] M/CODE / i. SUPERVISO [redacted]

m. NO CIV(S) _____ n. NO M [redacted] k. RAC _____ l. FREQUENCY (Hrs P [redacted]

CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHE

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/16/08 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting office	50-78-Aug 65	FC	50-100	Adq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	eye/hand strain - computer work for long periods of time	3	

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

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SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY

Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

(1) Assistant S-1 NCO.
(2) at this facility - 7 yrs.
(3) Before at De Kalb MS Army
(4) High blood pressure: Take Medication for it.
(5) Exercise regularly
(6) Computer work about 6 hrs/day - No problem.
S-1 NCO
Here about 2 yrs - other assignments at the Board for 16 yrs.
Computer work about 6 hrs/day
No health problems

• PRIVACY ACT STATEMENT

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Signature

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SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Philadelphia, N S Ann c. BLDG/RM NUMBER Supply Rm 367th Main

d. LOCATION/CODE Supply Sgt 367th MAINT e. OPERATION/CODE _____ f. DESCRIPTION Computer work about 3 hrs/day

g. MACOM/CODE NG

j. TELEPHONE/AUTOVON NUMBER Non-Responsive [redacted] ODE _____ i. SUPERVISOR Non-Responsive [redacted]

m. NO CIV(S) _____ n. NO M[redacted] k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

[redacted] R(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 4/16/08 b. EVALUATOR (INITIALS) Non-Responsive [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting office	48-54 ~ Avg. 51	FC	50-100	Adgt
Lighting Storage Area	42-53 ~ Avg 49	FC	20	Adgt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
¼ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Eye/hand strain - Computer use for long periods of time	3	
PO Lifting	heavy lifting	3	
PO Foot Haz	Foot hazard	3	

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a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
[redacted]					AGR

Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Supply Sgt for 367th MAINT
② Has been at this array for over one yr
③ Before at Carthage - as supply sgt
④ Computer work about 3 hr/day - No problems c head or shoulder
⑤ No other health problems

PRIVACY ACT STATEMENT

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ATTACHMENT 2

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Analytical Environmental Services, Inc.

Date: 4/25/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: Non-Responsive
Project: Philadelphia, MS Armory
Delivery Order:
PO No:

Lab Order: 0804C20
Date Received: 4/18/2008 1:00 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0804C20-001A	41	91	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-002A	42	124	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-003A	43	25	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-004A	44	26	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-005A	45	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-006A	46	75	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-007A	47	84	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-008A	48	104	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-009A	49	106	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-010A	50	69	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-011A	60	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-012A	51	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-013A	52	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-014A	53	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-015A	54	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-016A	55	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-017A	56	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-018A	57	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-019A	58	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-020A	59	BRL	µg. Total	20	1	4/16/2008	4/22/2008	JY
0804C20-021A	61	BRL	µg. Total	20	1	4/16/2008	4/21/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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ATTACHMENT 3

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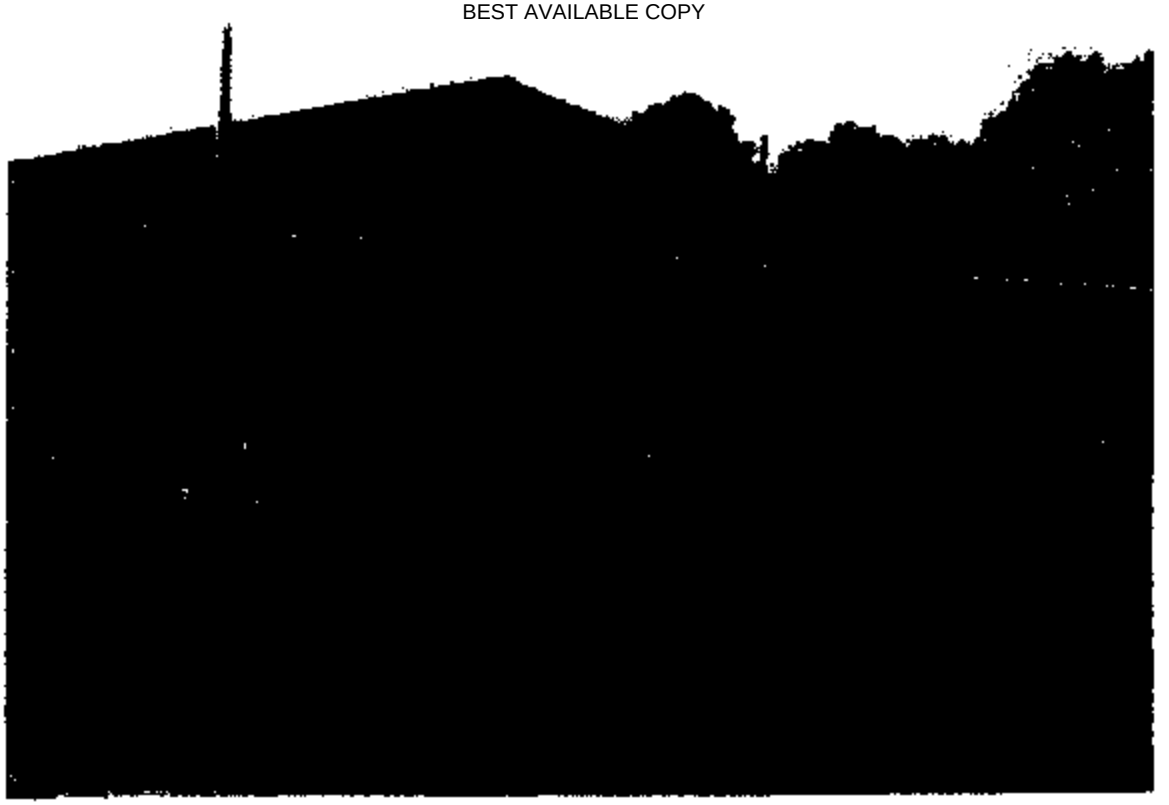
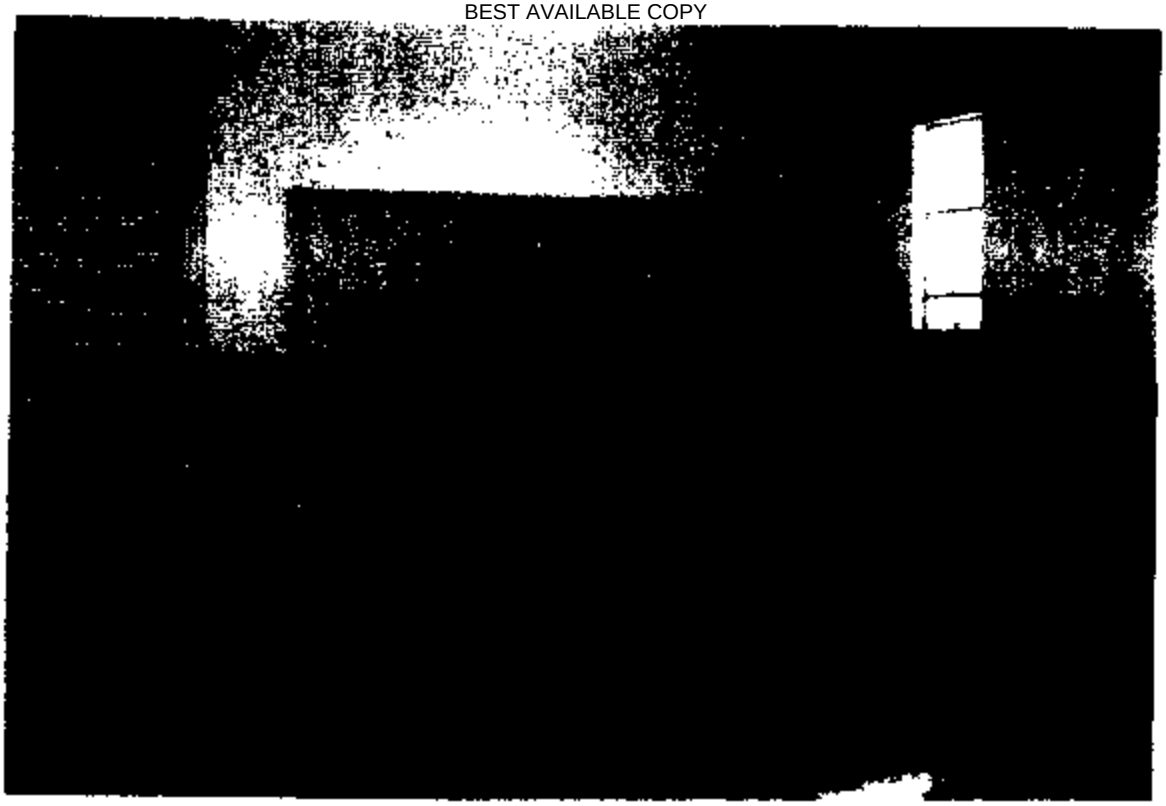


PHILADELPHIA, MS ARMORY

DRILL HALL, (DOOR AT RIGHT CONNECTS TO WHERE THE BACKSTOP & PIT WERE LOCATED)

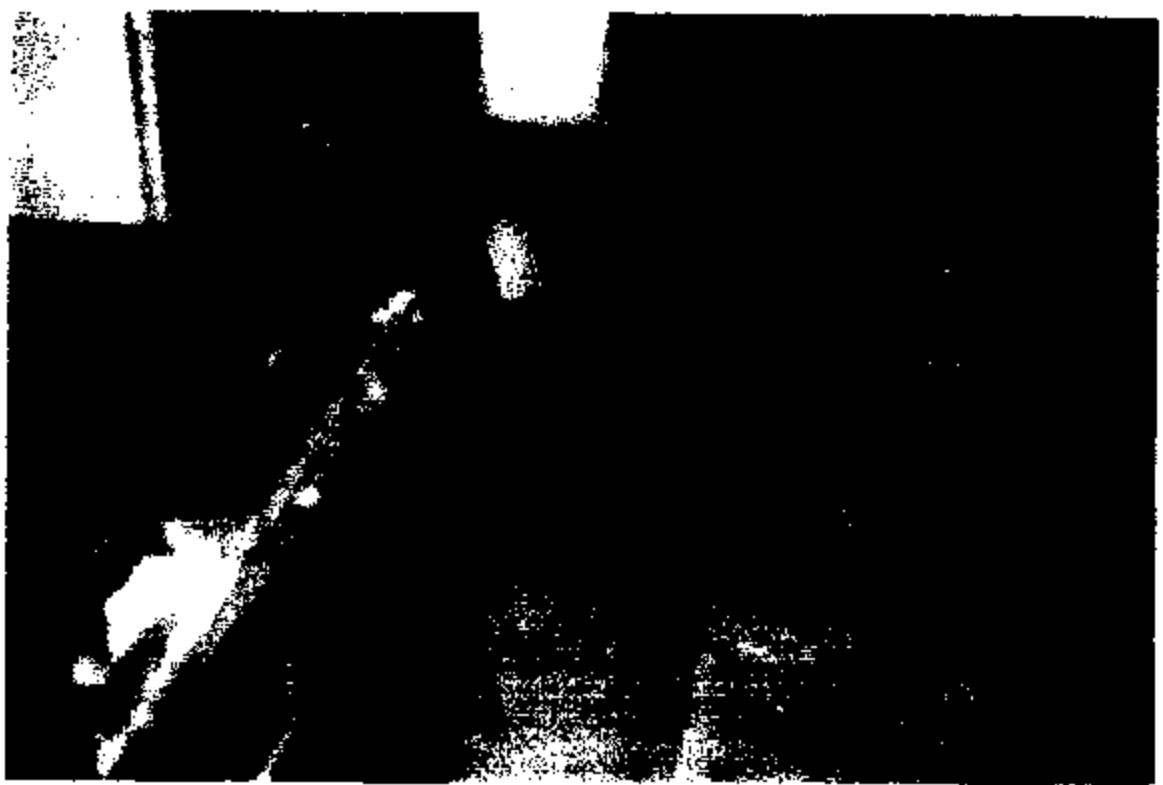
BEST AVAILABLE COPY

BEST AVAILABLE COPY



CONVERTED IFR, FRONT VIEW

CONVERTED IFR SHOWING THE DEPTH OF PIT AREA



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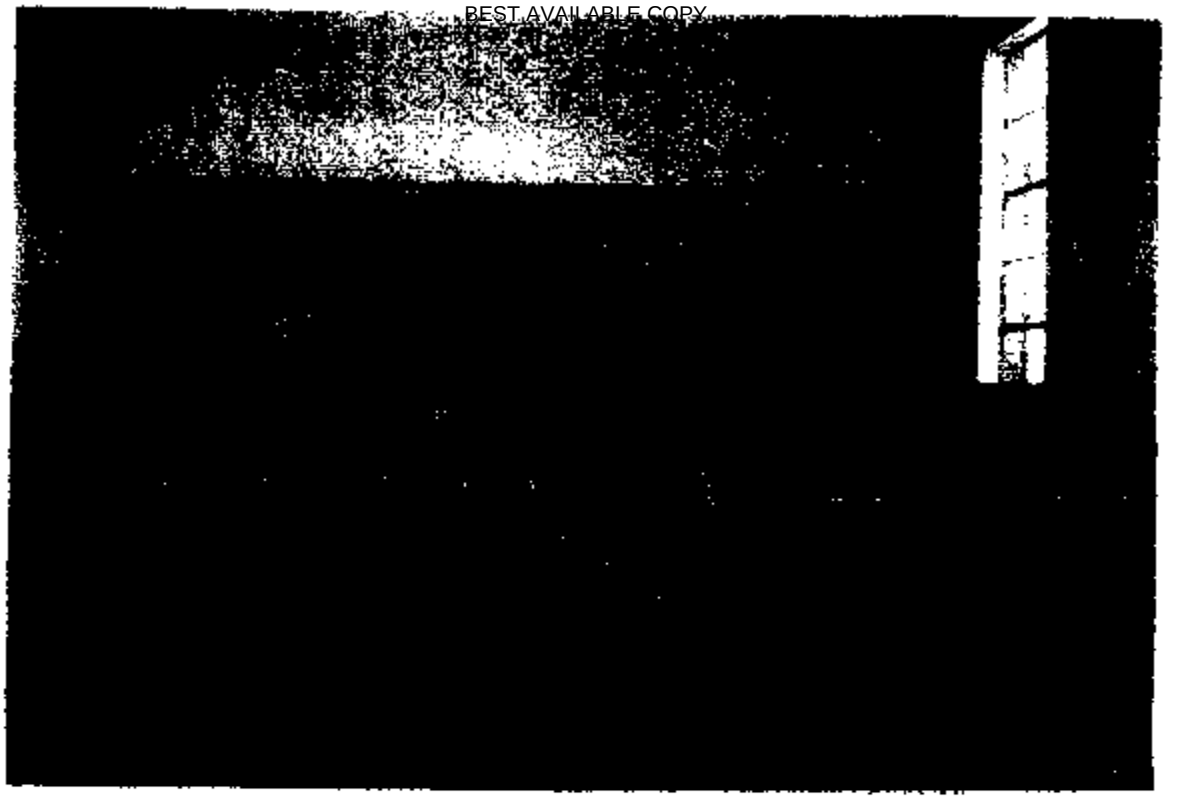

CONVERTED IFR, OTHER FRONT VIEWS

BEST AVAILABLE COPY

BEST AVAILABLE COPY

CONVERTED IFR RIGHT FRONT VIEW (FLAMMABLES CABINET)

CONVERTED IFR PIT AREA FLOOR (WEAPONS CLEANING MACHINE)

BEST AVAILABLE COPY

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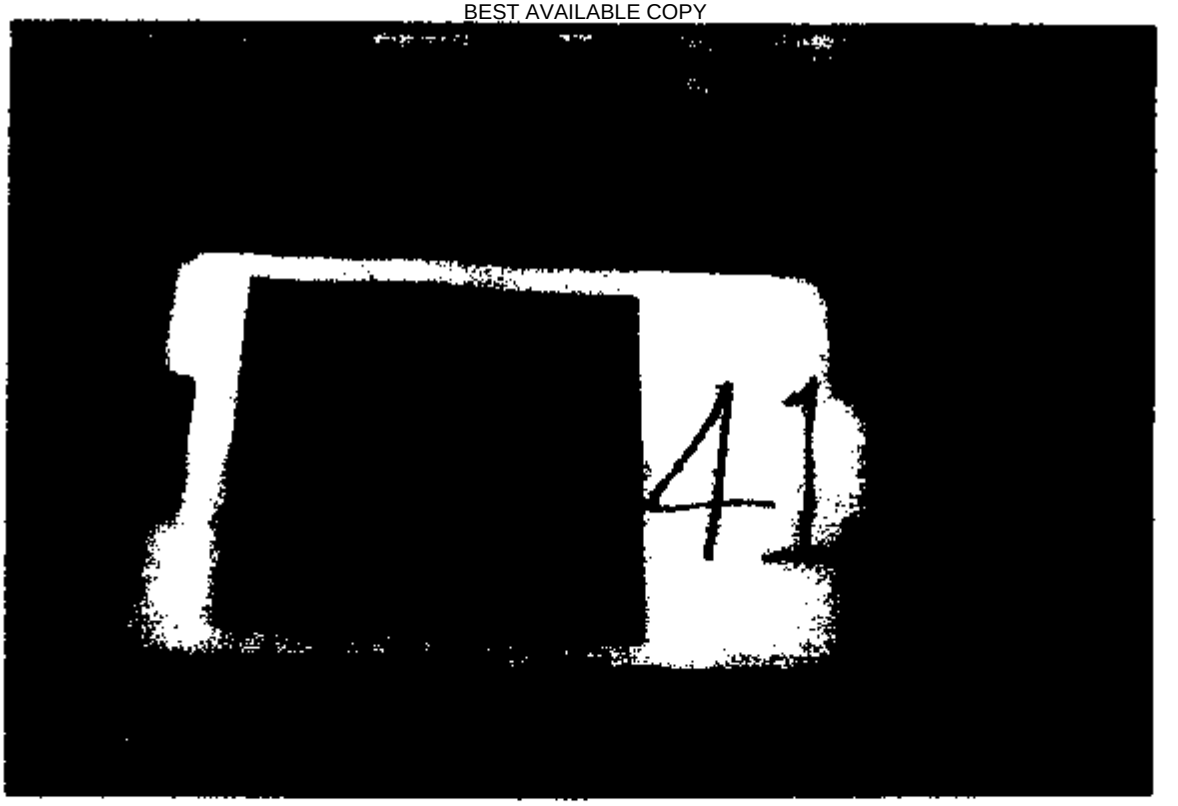
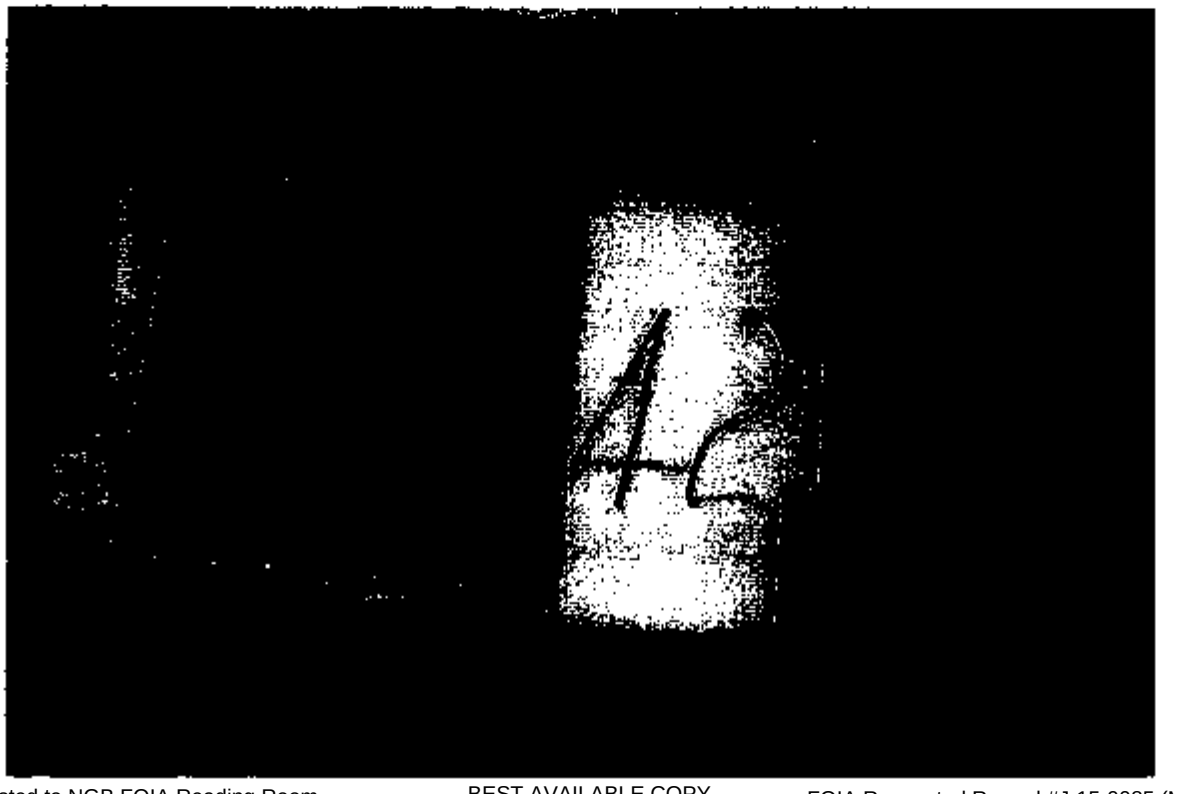


CONVERTED IFR
SAMPLE AREAS 41 &42



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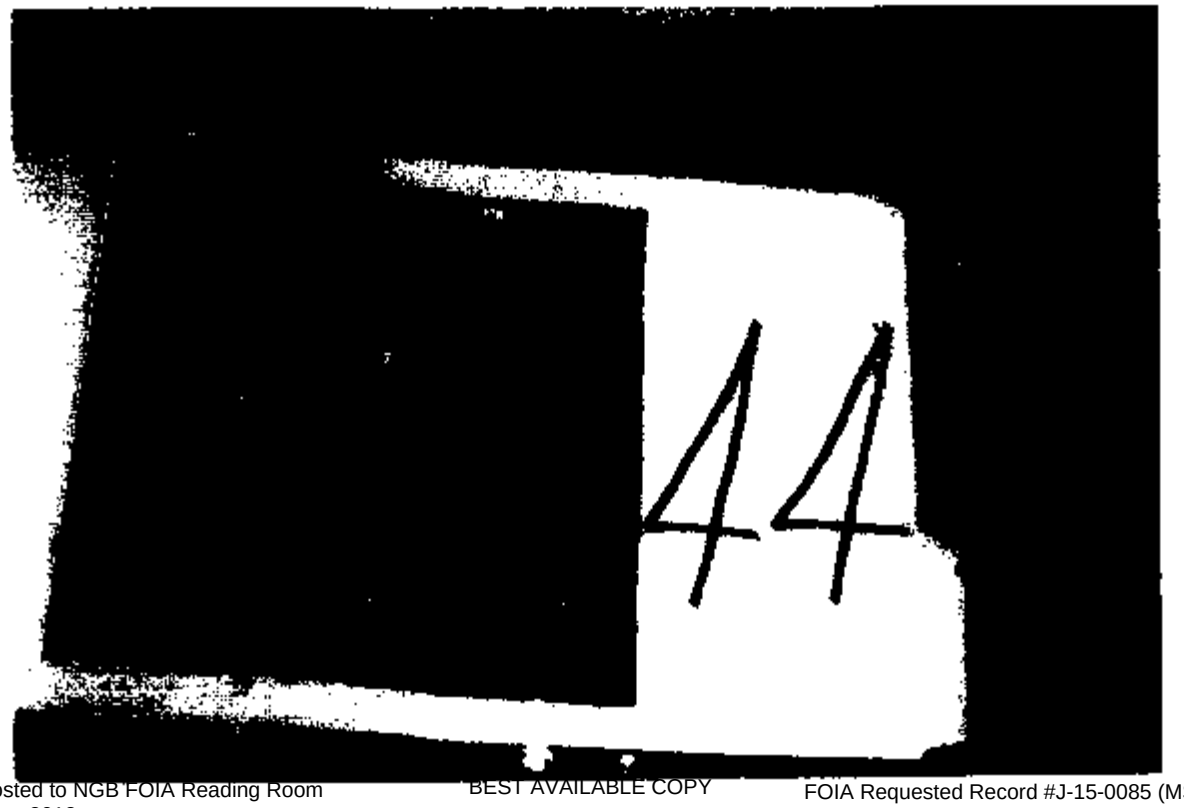
SAMPLE AREAS 43 &44



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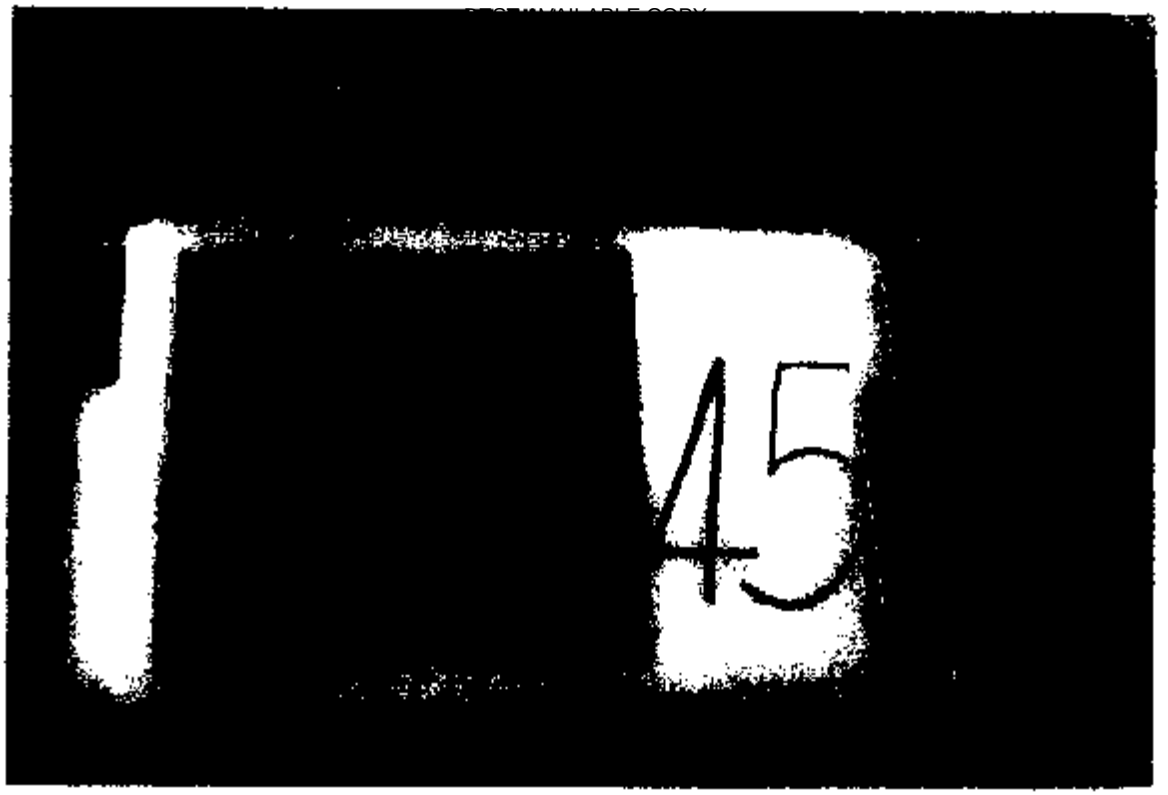
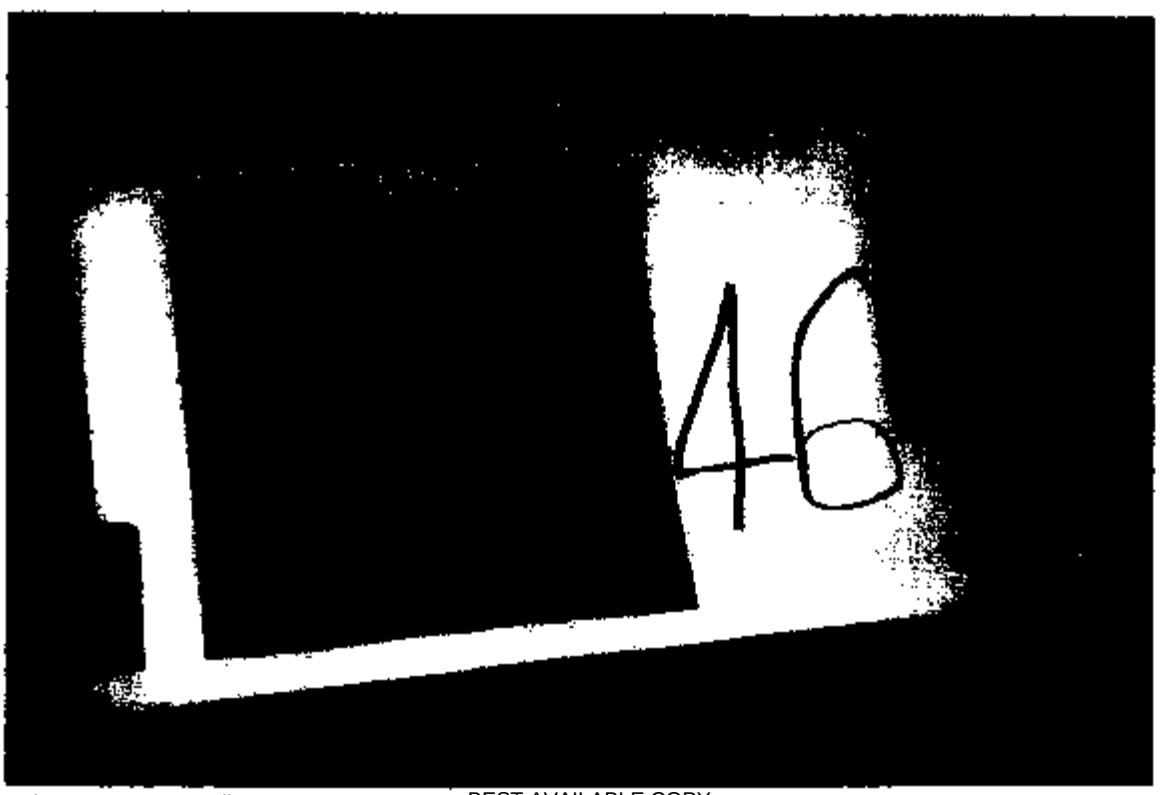


CONVERTED IFR SAMPLE AREA 45

WEAPONS VAULT, SAMPLE 46



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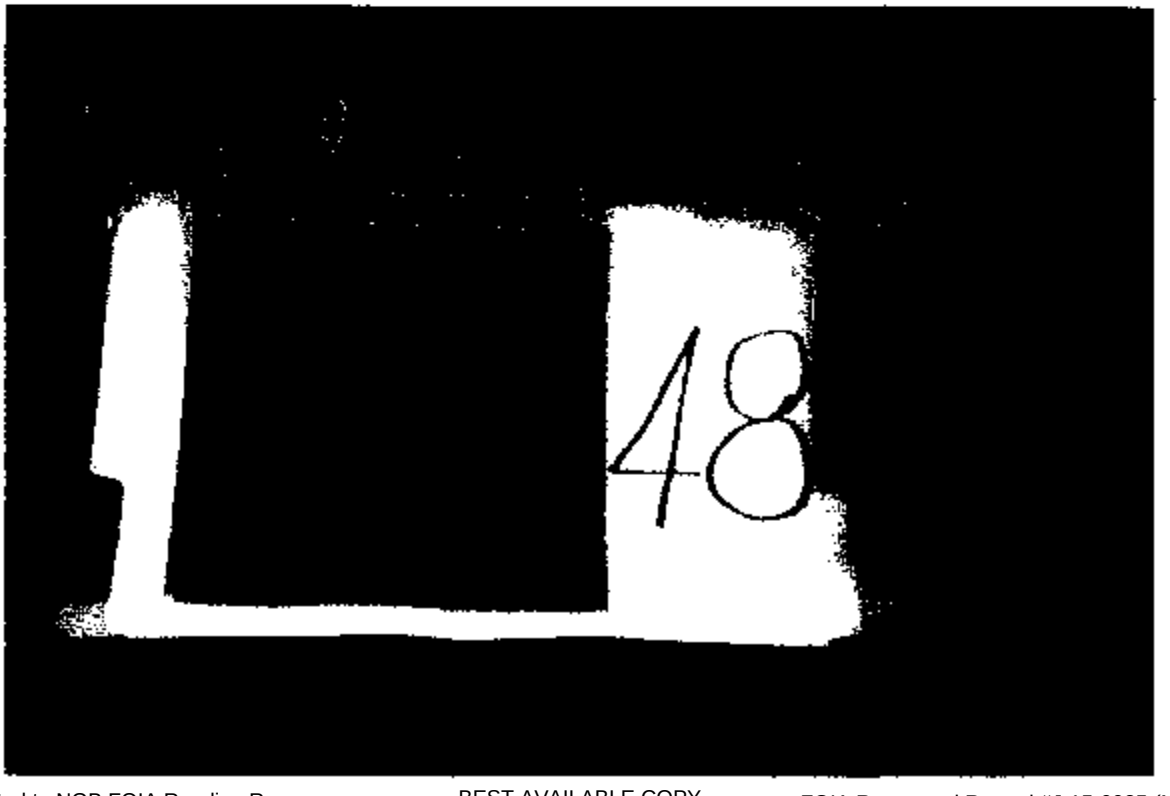
WEAPONS VAULT,
SAMPLES 47 & 48



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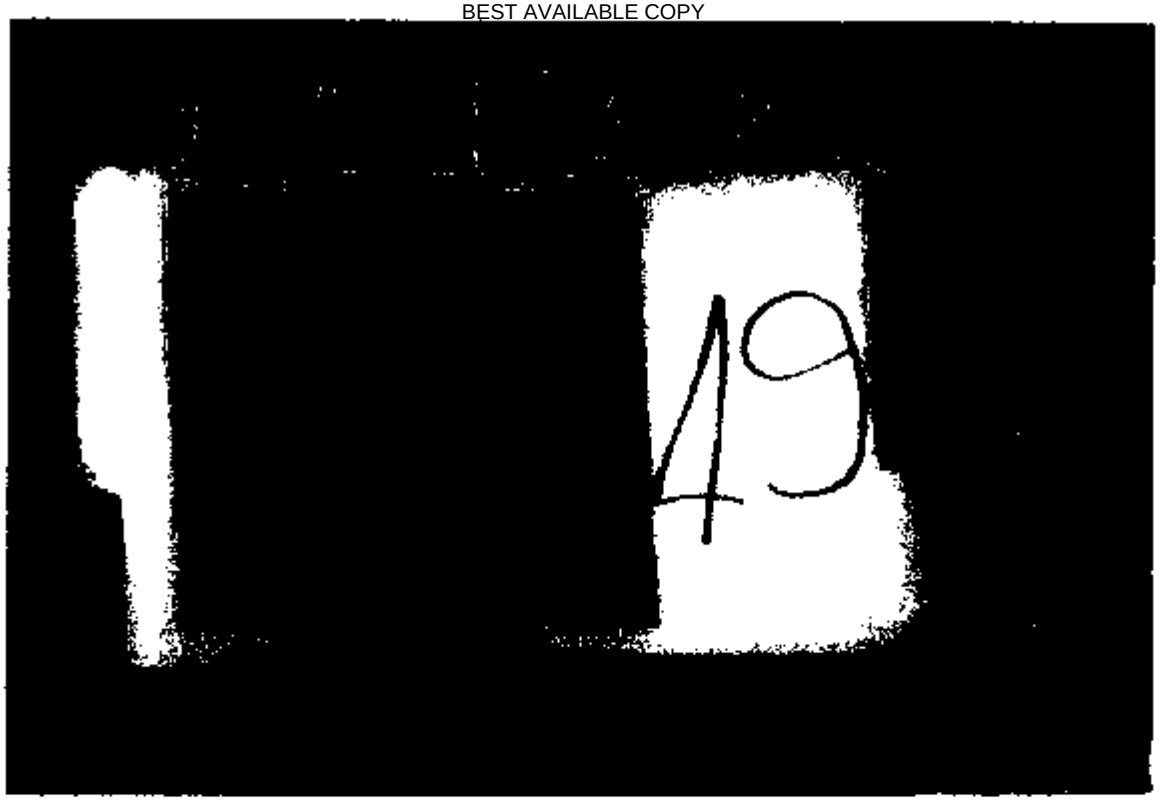
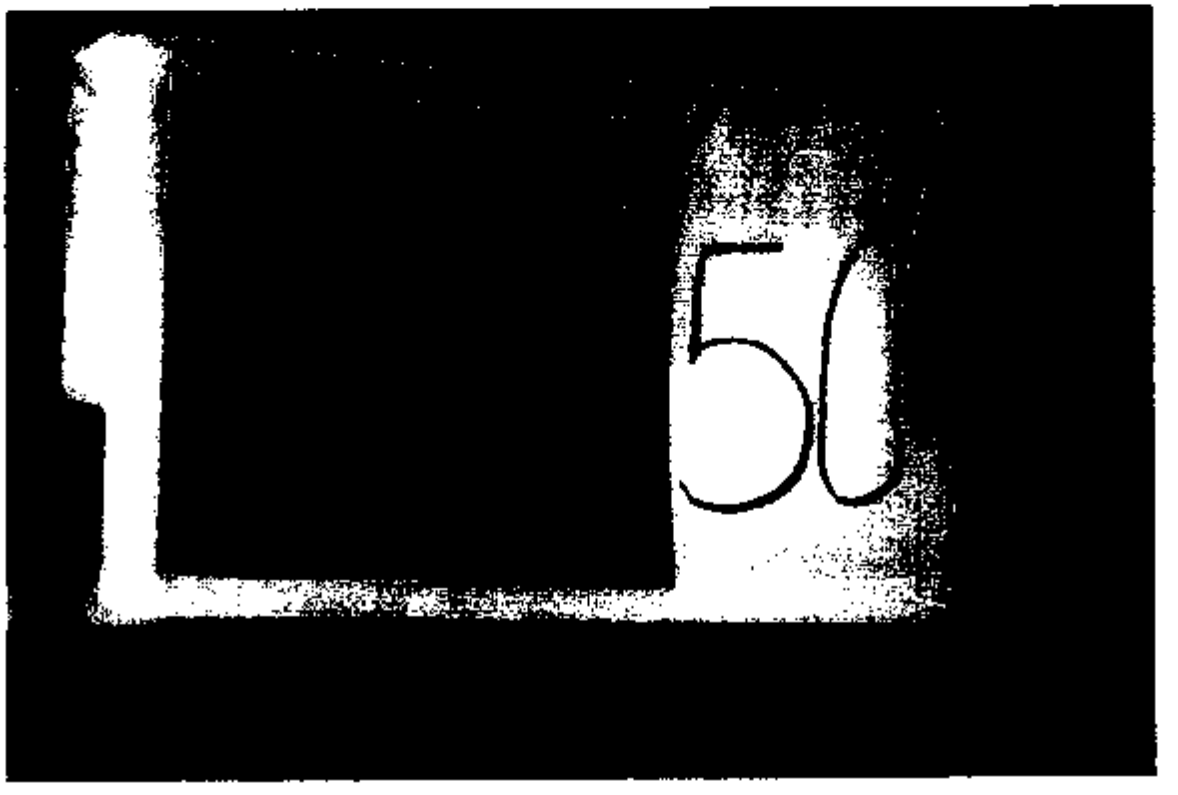


WEAPONS VAULT,
SAMPLES 49 & 50



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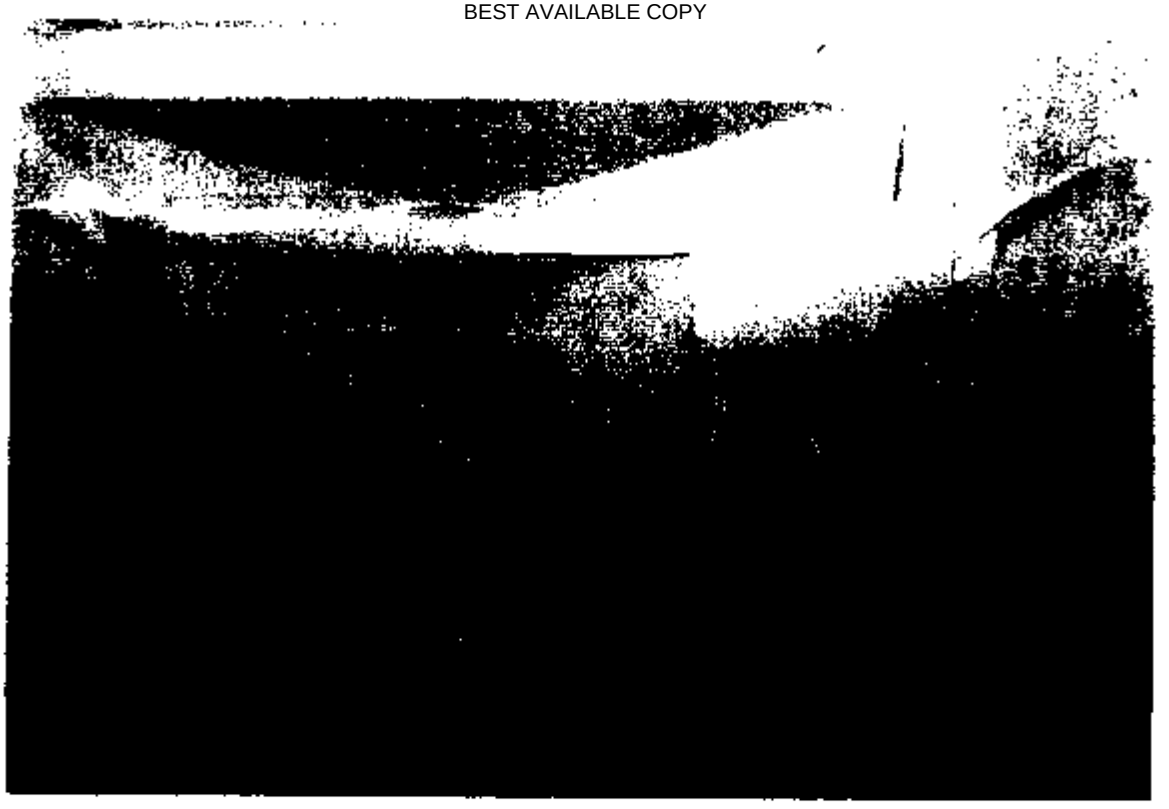

A/C-HEATING OUTLET SFC GERMANY & SFC LUKE OFFICES, SAMPLES 52 & 53

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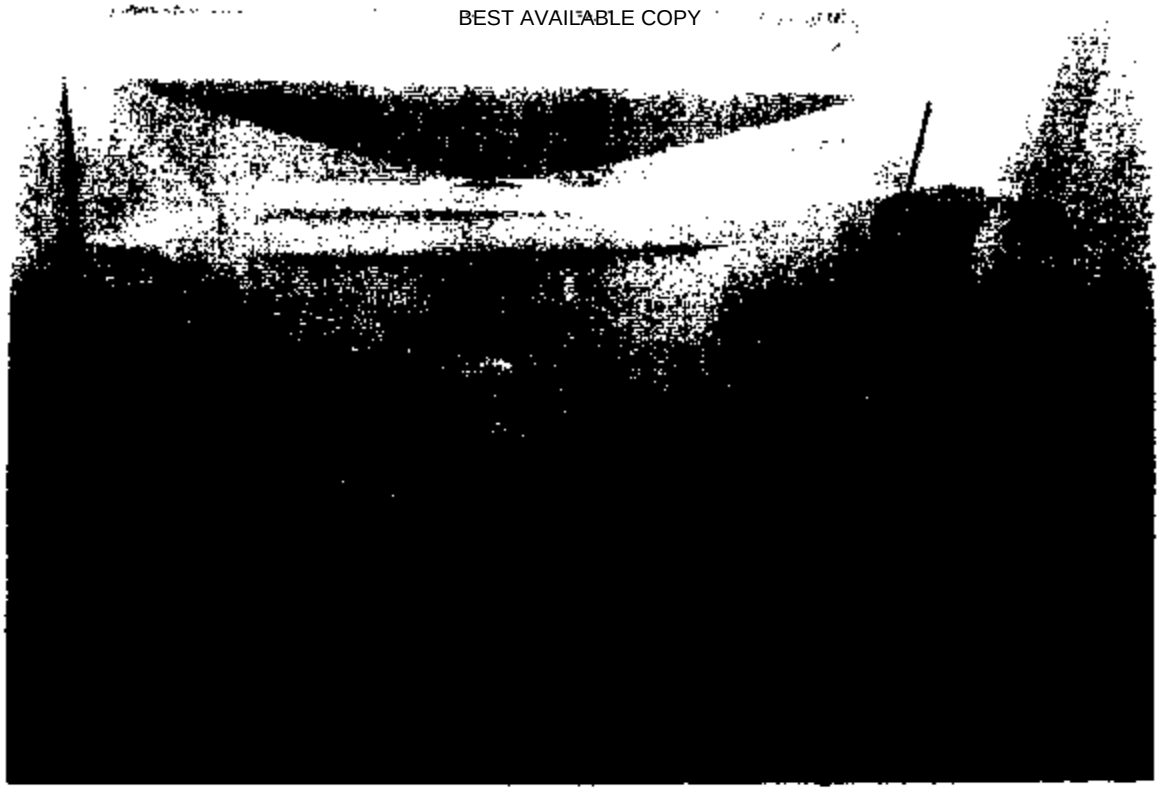

A/C-HEATING OUTLET S-
1 &MAJ MICHAEL
OFFICES,SAMPLES54& 55

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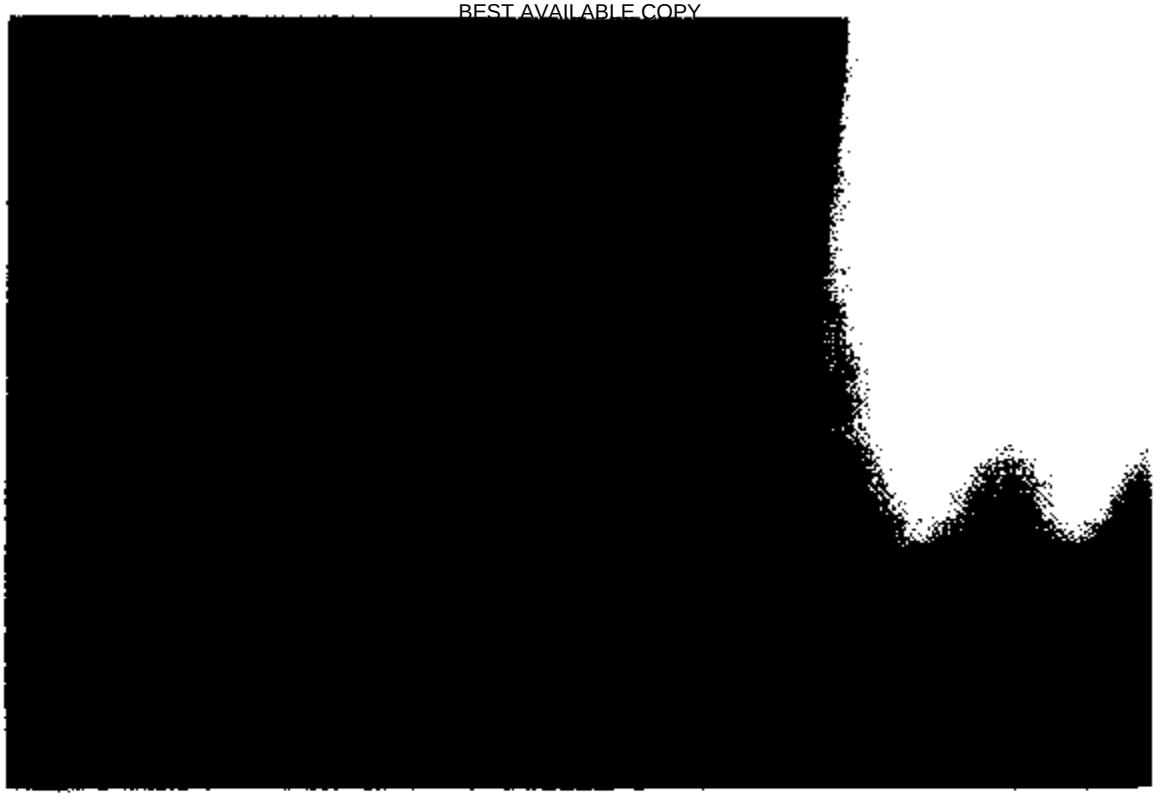
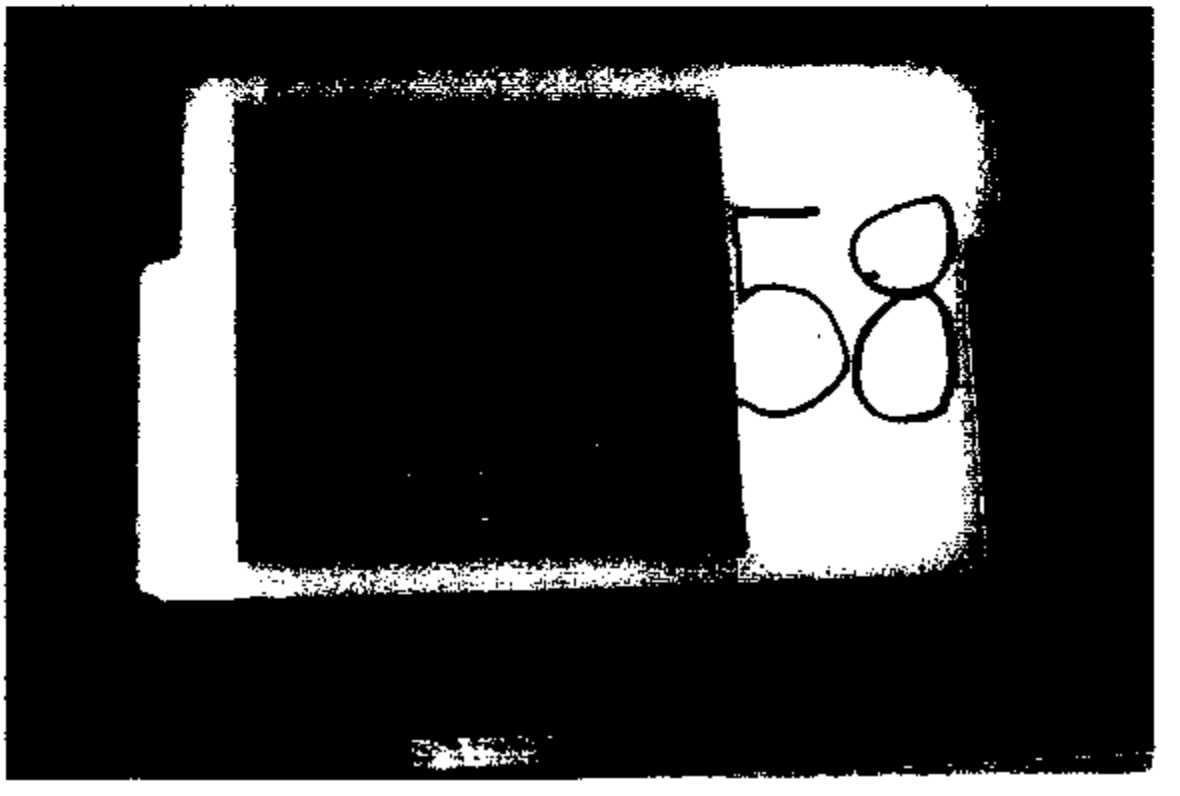


A/C-HEATING OUTLET CLASSROOM, SAMPLE 56

A/C-HEATING FILTER, SAMPLE58



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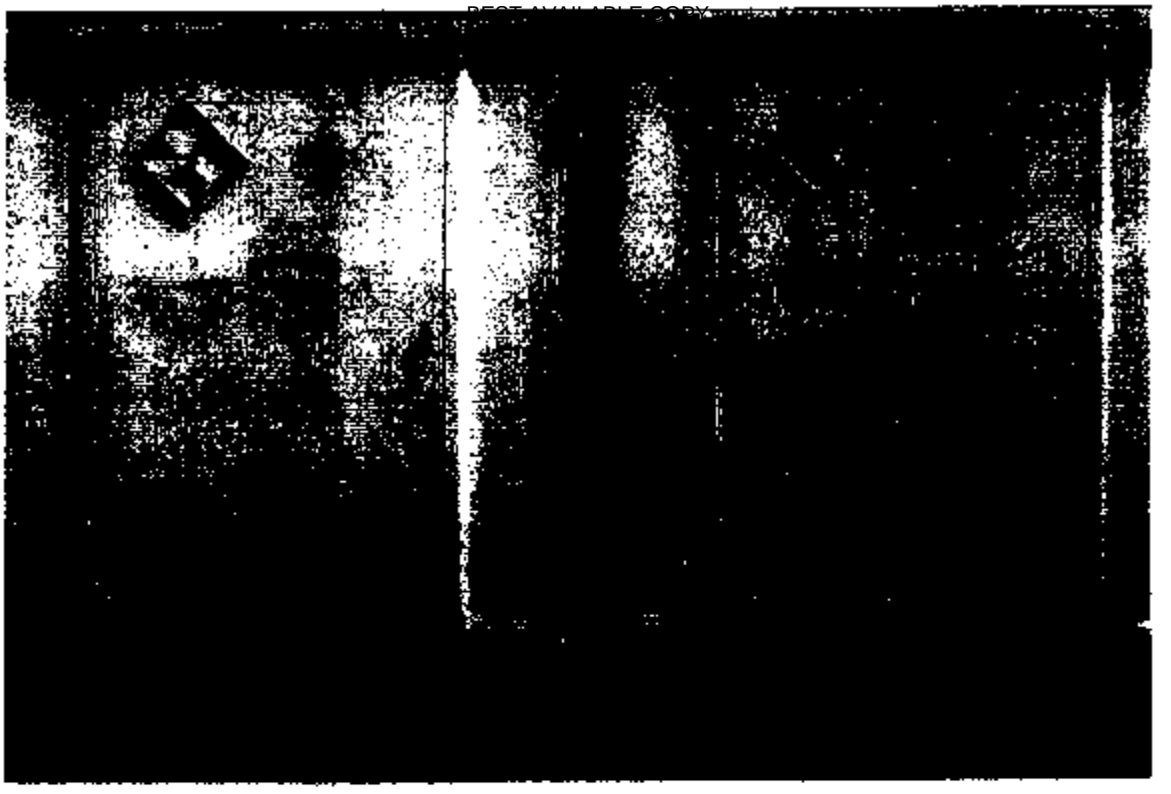
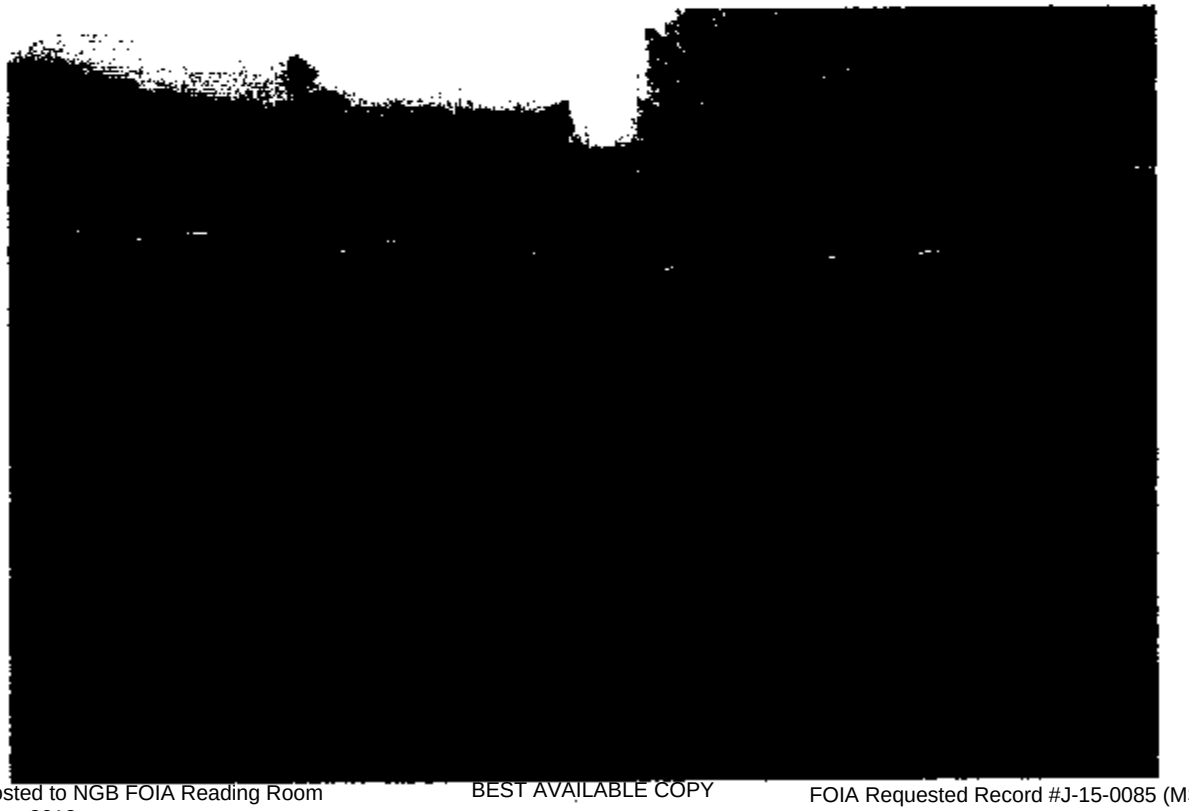


HAZMAT SHEDS

MOTOR POOL



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ATTACHMENT 4

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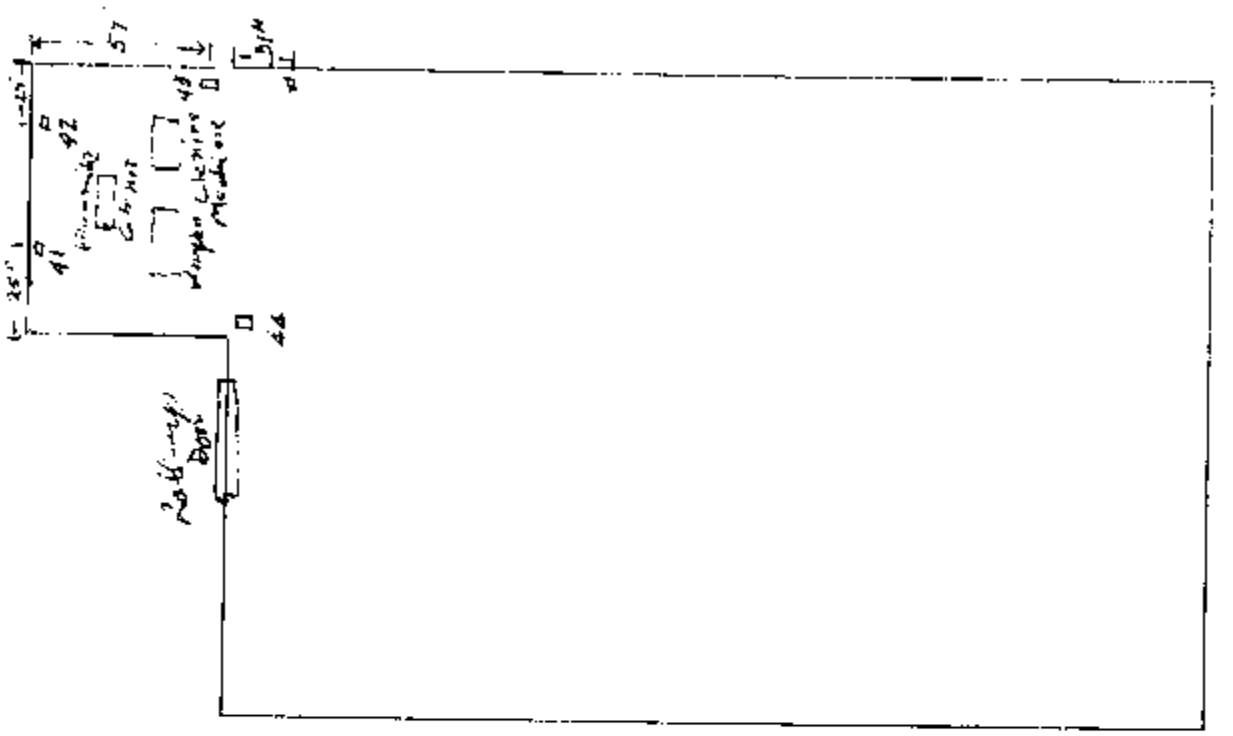
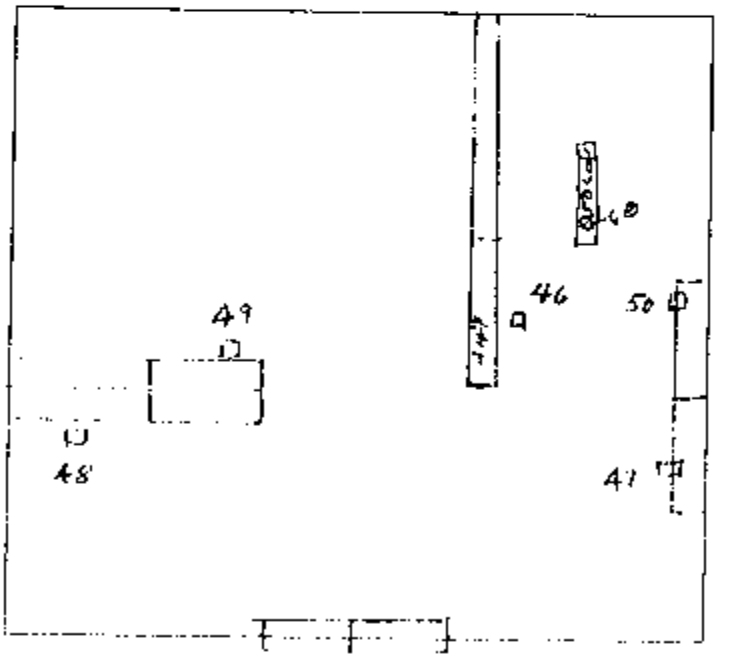


Converted IFR Sampling Areas



Weapons Vault Sampling Areas

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ATTACHMENT 5

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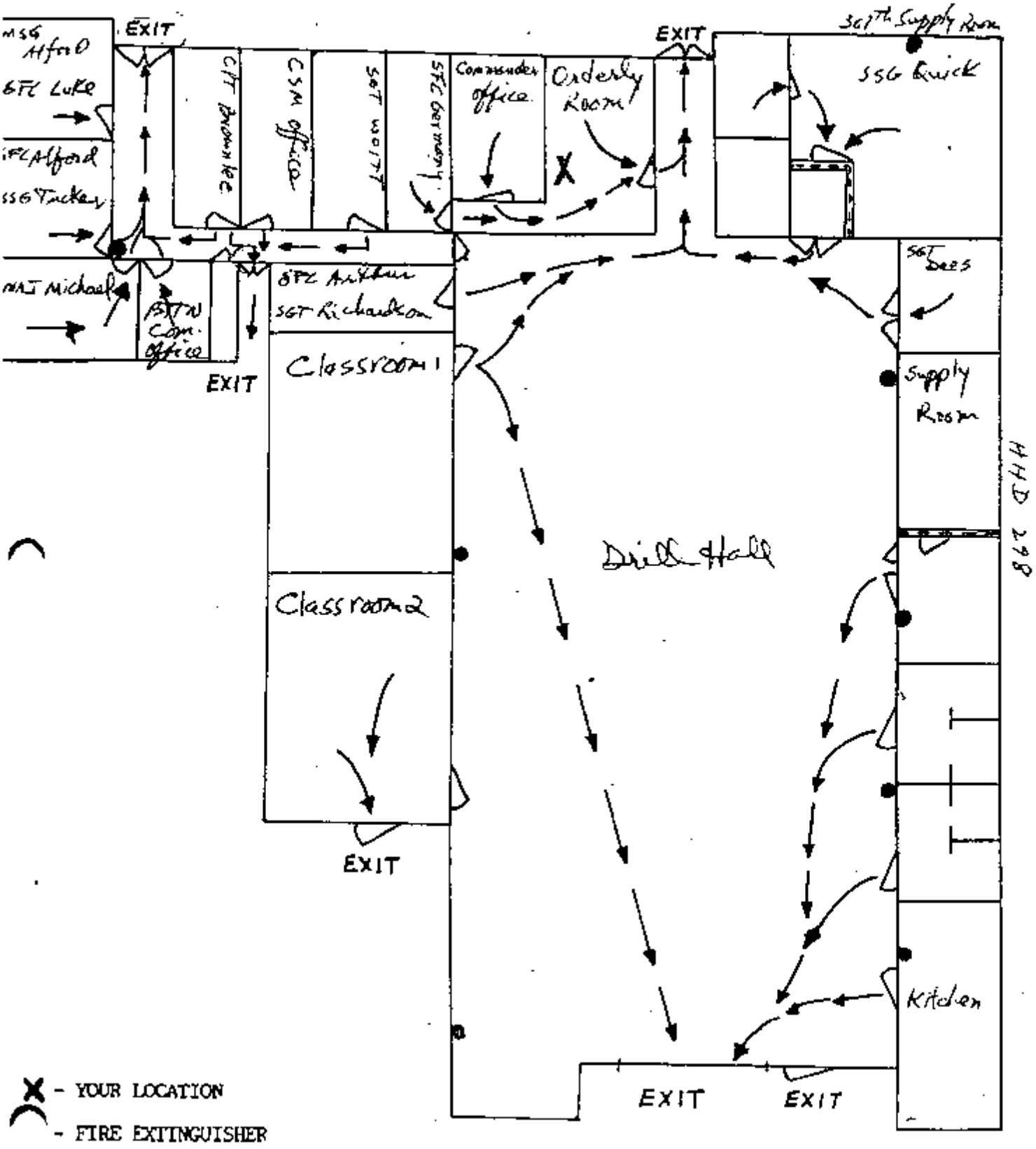

Philadelphia, PA Armory

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

January 8, 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive 367th Support Maintenance Company, 911 Herman Alford Memorial Highway, Philadelphia, Mississippi 38372.

Thru: LTC Thomas Conerly, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Philadelphia Armory, Philadelphia, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

c. Title 29 CFR, General Industry, revised 1996 rev. Part 1940

d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

e. AR 385-10, The Army Safety Program, 23 August 2007.

f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

l. Report Industrial Hygiene Survey, SE Safety Solutions, Hampton Cove, AL.

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Philadelphia Armory, Philadelphia, Mississippi.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Philadelphia Armory, Philadelphia, Mississippi.

a. The surveys were conducted by Non-Responsive SE Safety Solutions, Hampton Cove, AL.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Understand that all findings included in the enclosed report have been reviewed by the Regional Industrial Hygienist and the following recommendations are the ones to be followed.

a. Use the guidance given in the enclosed report as good industrial hygiene (IH) practices, requesting IH services where needed. The recommendations that follow are based on the survey findings as reported:

i. Ensure that all weapons are thoroughly cleaned before bringing them into the volt and placing them on the racks. In order to address the elevated ead dust wipe results clean the vault floor IAW NGB (AR) 385-15 Appendix C. The floor should be thoroughly wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Clean or Spic-n-Span. (RAC 2)

ii. Ensure to perform semi-annual inventories and updates of MSDS's on all chemicals in the facility and are incorporated to thr HAZCOM MSDS binder. Ensure all hazardous materials are stored in appropriate locations (RAC 3)

b. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2010. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2011 IHIP.

c. Have all HHIM data entered into the HHIM computer module.

d. Use the report to help in correcting all deficiencies noted.

e. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

f. Contact the State Occupational Health Office, Non-Responsive for any medical Surveillance that may be needed.

g. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

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January 8, 2011

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Philadelphia Armory, Philadelphia, Mississippi.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Mr. Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]
Non-Responsive [redacted]

Non-Responsive [redacted]

CF: ARNG-CSG-P
Non-Responsive [redacted] State Safety Manager, 2497 N. West Street, Jackson, MS 39216.
[redacted] e Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

ENCL:
as

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Industrial Hygiene Report
For
Mississippi Army National Guard
At
Philadelphia Armory
911 Herman Alford Memorial Highway
Philadelphia, Mississippi 39350

Prepared for:
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349
By
Non-Responsive
SES Solutions
12 October 2010

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- Site Description
- Scope of Work
- POC

Instrumentation ..... Page 1

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- Lead Wipe Results ..... Page 2
- Area Deficiencies ..... Page 2
- Illumination Readings ..... Page 3

Recommendations: ..... Page 5

Enclosures:

1. Health Hazard Information Module (HHIM) Survey Form
2. Listing of hazardous chemicals/materials at the facility
3. Analytical Lead Wipe Results
4. Personnel Roster
5. Design Floor Plan
6. Lead Clean Up Procedures
7. References
8. Pictures: 1-24

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SESS October 12, 2010

MEMORANDUM FOR: Mississippi Army National Guard, ATTN: Non-Responsive 367th Support Maintenance Company, 911 Herman Alford Memorial Highway, Philadelphia, Mississippi 38372

SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module (HHIM) Survey, 367th SPT MT CO

1. REFERENCES: See Enclosure 7.

2. BACKGROUND: At the request of Non-Responsive National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Consultation and Health Hazard Information Module Field Survey were performed at the Mississippi National Guard Armory, 911 Herman Alford Memorial Highway, Philadelphia, Mississippi 39350 on October 12, 2010. The POC was Non-Responsive at (601) 656-5081. The primary mission of 367th SPT MT is to provide unit maintenance support on equipment. The purpose of the survey was to perform lead wipe samples; a ventilation survey, an Illuminations survey, and complete HHIM field survey forms on all industrial operations at the facility (see Encl 1 for completed HHIM Survey Form).

3. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples and illumination measurements. All other instrumentation was operated according to manufacturer recommendations.

   a) Reed LM-81LX, Light Meter, S/N: Q303521, calibrated: 12/15/2009
   b) Ghost Lead Dust Wipes, Manufactured: February 10, 2010, Expiration: 08/2013

4. FINDINGS:

   a) 367th SPT MT MP Company and Supply:

      i) Administrative duties included pay, promotions, schools, family support, assignments, and supplies. The supply area was broken down into Class 2 items of clothing and equipment. The supply area was also responsible for maintaining some TA 50.

      ii) Eighty M-Day soldiers trained at the facility.

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b) General Area Armory Information:

i) Material Safety Data Sheets (MSDS) were located in the facility. All employees must be initially trained in the Federal Hazardous Communication Program IAW 1910.1200 (see Encl 2 for a listing of hazardous chemicals/materials at the facility).

ii) Twelve lead dust wipe samples were taken, using a 12 inch by 12 inch template. One sample was above the Federal Standard of 40µg/ft². One sample contained low levels of lead at 32µg/ft². No sample was above the National Guard Standard of 200µg/ft². Pictures of the lead sample wipes were taken (see Encl. 8, photos M362 to M373). The analytical lead result sheet included the sampled locations and corrected results. The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
Vault Floor (367th MT)	M362	48
Drill Hall Floor S.E. Side	M363	BRL
Drill Hall Floor N.E. Side	M364	BRL
Drill Hall Floor Center	M365	BRL
Drill Hall Floor N.W. Side	M366	BRL
Drill Hall Floor S.W. Side	M367	BRL
Table in the Kitchen	M368	BRL
Front Entrance Hallway Floor	M369	BRL
Bullet Stop on Old ID Range	M370	BRL
Floor in front of Bullet Stop	M371	32
Left Wall of Bullet Trap	M372	BRL
Red Metal Cont in the Old ID RG	M373	BRL
Blank		

Note 1: µg/ft² refers to micrograms or one millionth of a gram per sq ft.
Note 2: BRL means Not Detected at the Reporting Limit.

iii) Drill Hall: Conducting classes and drill formations is the main purpose in the hall. (See Encl. 8, photo 13). Illumination levels ranged from 23 to 54 FC's.

iv) Furnace/General Mechanical Ventilation: Good.

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v) The following table identifies area deficiencies:

AREA	DEFICIENCIES
Male latrine	Cracked ceiling tiles
Kitchen	Smoke Detector falling down

vi) Due to the low noise levels (administrative areas) there was no requirement for a Hearing Conservation Program. The only requirement would be when the M-Day troops were firing their weapons. All M-Day and full-time soldiers had earplugs.

vii) A listing of 367th SPT MT CO personnel is attached as Encl. 4.

viii) A design floor plan of the armory is attached as Encl. 5. Illumination levels are listed below in Paragraph 5.

5. ILLUMINATION SURVEY RESULTS:

a) Illumination Levels: The following additional illumination level readings were taken during the survey and are reported below in foot candles (FC's).

AREA/LOCATION	FOOT CANDLES (FC)
Front Entrance Hallway	21-29
Commander's Office	47-60
367th Orderly Room	43-51
278th Orderly Room	31-61
Kitchen	81-104
Female Latrine	35-40
Male Latrine	21-70
Vault	22-29
Readiness NCO Office	33-84
Recruiting Office	46-66
BN Cdr's Office	56-81
Supply Room	35-43
Class Room	55-67
Old Inactive Indoor Range Area	20-36
Drill Hall	23-54

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SESS
SUBJECT: Industrial Hygiene Consultation and Health Hazard Information Module

As indicated in the IES Lighting Handbook, Application Volume 1987, Offices: 20-50 FC's, Supply and Publication Areas: 20-50 FC's, Assembly 20-50 FC's, Restrooms: 5-10 FC's, Classrooms: 50-100 FC's, Kitchen: 20-50 FC's, FC's, Library: 50-100 FC's, Storage Rooms: 10-20 FC's, Mail Room: 20-50 FC's.

6. TECHNICAL ASSISTANCE:

POC for further assistance concerning this evaluation is Non-Responsive

Non-Responsive
SES Solutions

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7. RECOMMENDATIONS:

a) Conduct semi-annual inventories and update MSDS's on all chemicals in the facility. **(RAC 3)**

b) Due to the lead dust wipe results, it is recommended that the vault floor and the Drill Hall floor in front of Old Indoor Range is cleaned IAW NGB (AR) 385-15 Appendix C. The floors should be thoroughly wiped down and or wet mopped with an industrial cleaner using tri-phosphates, Mr. Clean or Spic-n-Span. For additional lead cleaning measures, see Enclosure 6. **(RAC 2)**

c) Submit a work order to the facilities maintenance office (FMO) to repair the cracked ceiling tiles in the male latrine (See encl 8, photo 16) **(RAC 3)**

d) Perform monthly checks on fire extinguishers (Not being checked). Each month, ensure that the devices are checked, recorded, turn upside down and tapped with a rubber mallet to loosen any material at the bottom. Have the local fire department conduct annual inspections of fire extinguishers. **(RAC 3)**

e) Re attach the smoke detector to the ceiling in the kitchen (See encl 8, photo 15) **(RAC 2)**

f) Update current fire evacuation plan building diagram to clearly identify the room number and military section that occupies the area. **(RAC 3)**

g) If work practices change, a new assessment should be made on the controls in Place.

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HHIMS Industrial Hygiene Survey Form

Front page

AALOC | Installation: Philadelphia Army | Building | Room Number

Location: A A | Operation: A D O | Survey Date: month 1 0 / day 1 0 1 2 | Evaluator | Mscom: A G | Submscom: X X | Unit / Organization (45)

Supervisor: Mr. / Ms. / Rank | RAC

Supervisor, or Point of Contact Telephone Number | DSN | Commercial | Frequency (hrs/day): 0 0 8 | No. CIVs | No. MIL | Contractors: 0 0 | No. LOCs: 0 0

Lab Hoods: 0 0 | Vapor Degreasers: 0 0 | Spray Booths: 0 0 | Open Surface Tanks: 0 0 | Ventilation Units

Controls Present (If >6, continue in comments)[25]	Evaluation (25 characters max)	Unit code	Controls Required (25 characters max)
OTH	21-25	F T C	20-50 FTC
OTH	35-43	F T C	20-50 FTC

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters max)
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(> 85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118) muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) _____ - EYE (portable) _____ - SHW - GMV - LEV

ACO AOM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
PONOISECO				
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOIL				

Social Security Number or Unique Identifier

Last Name (20 characters max)

First Name (20 characters max)

MI

Sex

Category

☐ Personnel data provided by the facility is attached to this form

Insert Privacy Act Statement

Comments

Operation described is Administrative and Personnel Actions typing filing, promotion extensions & enlistments

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐

There is a ventilation data sheet attached to this form ☐

☐ (comments continued on attached

2/8/95 CHPMBACK.XLS

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HAZARDOUS M RIAL INVENTORY

FACILITY NAME 298th CSB
LOCATION Philadelphia, MS
INVENTORY DATE:

STORAGE AREA: Flammable Cabinet

PAGE 1 OF 2 PAGES

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Super Supreme Traffic power Paint Cartridge Yellow									365		4 cans 18oz						
Super Stripe Traffic power Paint Cartridge Blue									365		2 cans 18oz						
So Sure Lusterless Alkyd Enamel Black 37038	8010-00-616-9143								365		5 can 12.5 oz						
Refresh	6840-00-721-6055								365		15 cans 18 oz						
Pro Lube	9150-00-458-0075								365								
Paint -Zone Marking Extra White	7510-00-419-9564								365		1 gal						
Paint Gloss Acrylic Coating									365		3 gal						
Paint Gloss Acrylic Coating Dark Bronze	8010-00-616-9143								365		3 gal						
Odor Eliminator									365		16 oz						

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

AGO FORM 415R
1 Dec 96

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HAZARDOUS M .RIAL INVENTORY

FACILITY NAME 298th CSB
LOCATION Philadelphia, MS

STORAGE AREA: Flammable Cabinet

PAGE 2 OF 2 PAGES

INVENTORY DATE:

CML NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Tan obliterating compound 8010-00-582-4743									365		13 oz						
Industrial Enamel Paint Desert Tan 8010-01-502-	5538								365		11 oz						
Industrial Enamel Paint 10SS Red 11136 8010-01-331-6109									365		11 oz						
✓ Thinner, Polyurethane 8010-00-181-8080									365		1 gal						
✓ Denatured Alcohol 6810-00-543-7415									365		3 gal						
Oven Cleaner									365		19 oz						
Pro Lube 9150-00-458-0075									365		2 Cases						
✓ Flexible Floor Patch Leveler									365		1 gal						
									315								
Stainless Steel Cleaner									365		2 can 12 oz						
and Polish																	

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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Analytical Environmental Services, Inc.

Date: 10/22/2010

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: SES
Project: Philadelphia, MS Armory
Delivery Order:
PO No:

Lab Order: 1010D49
Date Received: 10/15/2010 10:10 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
1010D49-001A	M362	48	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-002A	M363	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-003A	M364	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-004A	M365	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-005A	M366	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-006A	M367	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-007A	M368	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-008A	M369	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-009A	M370	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-010A	M371	32	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-011A	M372	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-012A	M373	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP
1010D49-013A	BLANK	BRL	ug, Total	20	1	10/12/2010	10/21/2010	MP

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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Philadelphia, MS Armory

SUBJECT: Personnel Roster

NAME	RANK	POSITION
Non-Responsive		

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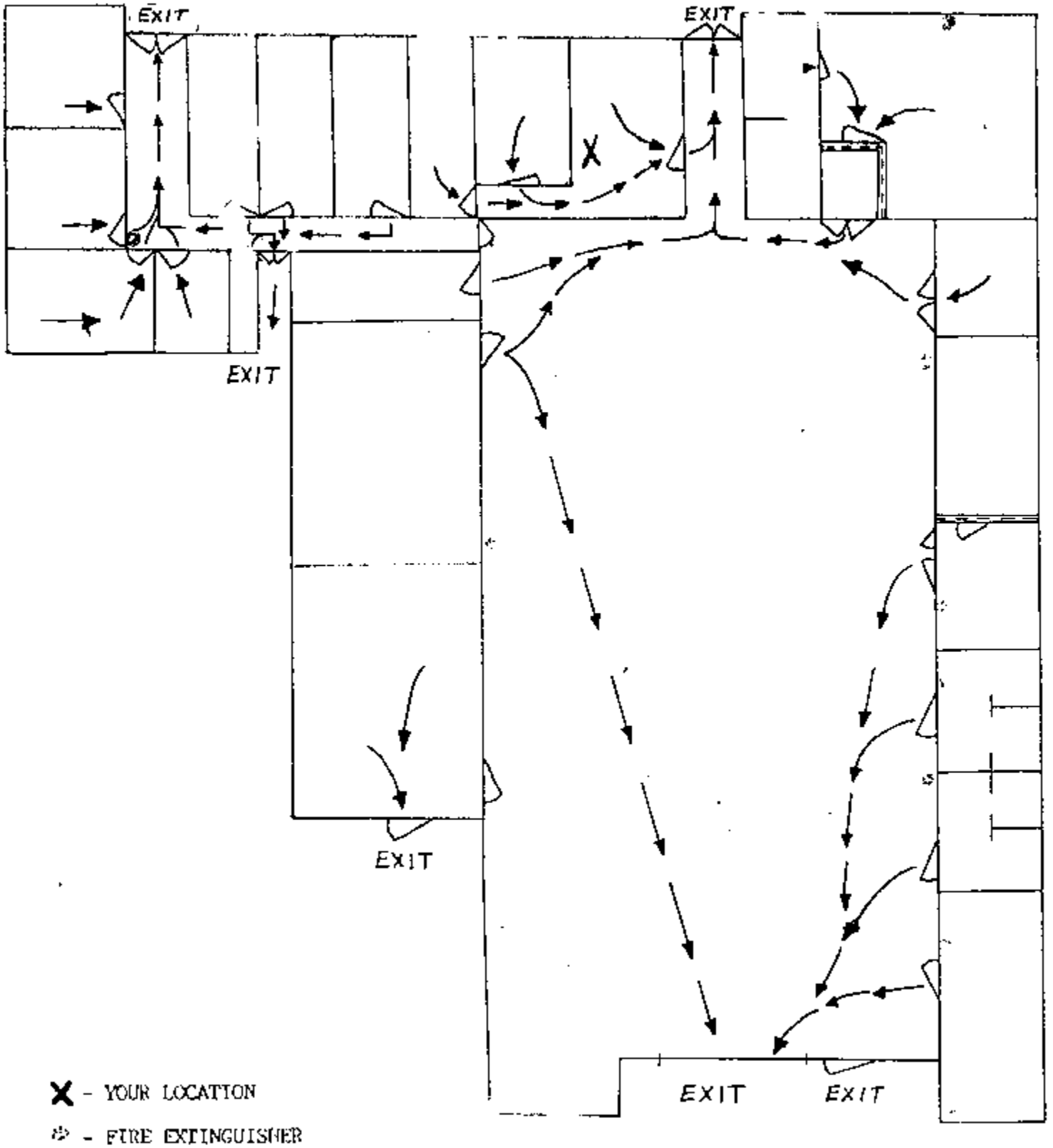
EXIT
EXIT
X
EXIT
EXIT
EXIT
EXIT
X - YOUR LOCATION
- FIRE EXTINGUISHER

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ENCLOSURE 6

ARMORY CLEANUP REQUIREMENTS

High Test Results

If the public utilizes your facility and the test results for lead came back above 40 $\mu g/ft^2$ you are responsible for cleaning this area and adjoining areas to meet the 40 $\mu g/ft^2$ or less, unless:

1. You can guarantee that no children under the age of 7 will come into your facility.

2. Your state public health has other guidance. for example, signage is required to warn personnel who are pregnant or of child bearing age, or under the age of 7 years old.

3. Signs stating "No smoking, drinking, eating. or applications of cosmetics without washing of hands prior to activity" are properly installed in your facility.

1. Cleaning of Building.

Before proceeding into the cleanup mode, first discuss with your Environmental Office what procedures are recommended and then coordinate your cleanup efforts with local agencies, if warranted.

a. The building, as well as the dusty materials and equipment in it, should be cleaned one time to reach the lead dust levels that are appropriate for the function of the facility. for example, facilities used by full-time personnel only, utilized by adults or children 7 years old or older children only, or not utilized by pregnant individuals and/or children under the age of 7. **NOTE:** This type of cleaning implies that this is not at a facility that has an active Indoor Firing Range. For facilities with active ranges, these facilities should be monitored with wipe samples taken over the drill floor area by the Range Custodian quarterly, to ascertain that the level of lead is at the required level for your particular facility and situation.

   1. This cleanup can be accomplished using a HEPA vacuum (a very tedious and time-consuming operation) and then by utilizing a wet method with "Spic n Span" or something equivalent to this detergent using wet rags to wipe down surfaces and mops soaked in this solution to do the entire floor area. **NOTE: Personal protective gloves, rubber boots, or protective disposable shoe/boot covers should be used during this procedure and personnel who have performed the cleanup should wash their clothing separately from their family's clothing.**

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ENCLOSURE 6

especially if they have young children at home. Personnel should wash their hands after performing this operation to assure that lead contaminates are not ingested.

2. Frequent changing out of the water used for cleaning is vital. Disposal of this hazardous waste water and rags/mop heads, Personal Protective Equipment (PPE), etc., should be coordinated with your Environmental office.

b. Clean all ductwork where lead was found. EPA has a protocol specifically for replacing or cleaning lead in dust form in HVAC systems. EPA Office of Pollution Prevention and Toxics, "*Renovate Right Important Lead Hazard Information for Families, Child Care Providers and Schools*". http://www.epa.gov/lead/pubs/rrpamph.pdf .

c. Continue to enforce good housekeeping and hygiene practices. These measures make good sense to minimize exposures to any toxic chemicals in the workplace.

d. Provide lead awareness training to the general workforce and any occupants of your facility.

***NOTE:* Before you start any new procedures or practices be aware of the local city and state regulations in your area.**

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ENCLOSURE 6

ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

1. Cloth Mop head(s) & Mop head holder(s) with handle.
2. Mop bucket(s) with wringer.
3. Clean cotton rags and sponges.
4. Disposable gloves.
5. Large barrel (55 gallon) to store wastewater in after changing out of dirty scrub water.
6. Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc. home for laundering.
7. HEPA vacuum
8. Six (6) mill plastic bags to dispose of waste.
9. Wastewater containers.

Disposal of Waste Water and Cleaning Materials:

1. ***NOTE:*** Consult with the Local Army National Guard Environmental Office prior to taking any collection, disposal, or commencement of wiping activities. Each state and territory may have additional regulatory guidance regarding the collection, storage, and disposal of wastewater.

2. Mop heads should be disposed of after initial cleaning, unless otherwise advised by Environmental Office personnel. ***NOTE:*** **Thorough cleaning of mop heads may be sufficient enough to permit subsequent reuse on future Armory cleanups, but check with the local Environmental Office before reuse.**

3. Disposable gloves should be treated as hazardous waste material.

4. Soiled cotton rags should be treated as hazardous waste material.

5. Wash water contaminated with lead may be collected and allowed to slowly evaporate leaving lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

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a. Drums shall be properly labeled to identify contents in accordance with (IAW) Federal, state, and local regulatory guidance.

b. Disposal of containerized waste shall be coordinated IAW state hazardous waste program requirements.

c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

1. Thoroughly wash hands with soap and water.

2. Rinse off rubber boots with soap and water, capturing wastewater for collection into the established waste stream. If personnel have chosen to use overshoes for protection, dispose of the used overshoes into the established waste stream. ***NOTE***: **This recommendation is for initial cleanup activities; PPE requirements may be reduced after it has been determined that non-hazardous levels of lead have been achieved.**

3. Wash BDU's or personal clothing separately from children's clothes.

IMPORTANT NOTES:

1. **No eating, drinking or application of cosmetics is allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area).**

2. **Avoid blowing, shaking or like actions which could potentially disperse lead dust. Dry sweeping, dusting, wiping, or blowing with compressed air shall not be permitted.**

Initial Armory Cleanup:

1. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in room (ceiling, wall trim, and floors). Start with the ceiling and work down, moving toward the entry door. **Completely clean each room before moving on.**

2. Prepare water and detergent for the wipe down phase, according to manufacturer's recommendations.

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3. Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.

***NOTE*: If walls to be cleaned show signs of deterioration, for example, chipping or crumbling paint in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the cleanup should be avoided.**

4. Now prepare water and detergent (for example, Spic n Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufacturer's recommendations, which should be found on the product's label for general clean up.

    a. Change out water and detergent frequently (when water appears dirty)

    b. Rinse out mop heads frequently to prevent contamination of dirty water.

5. Cover entire drill floor surface with above prescribed water and detergent.

6. Final rinse should be with clean water only – after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices ***after Clearance sampling of cleaned area is performed by certified personnel:***

1. Floor cleaning and dusting should be accomplished using the wet cleaning described in Initial Armory Cleanup SOP.

NOTE: The only exception to these wet cleaning procedures is the use of an approved chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

    a. Use of a pre-treated (chemically treated) dust floor mop will prevent lead dust particles from being disbursed into the surrounding atmosphere.

    b. If a pre-treated dust mop is used – Do Not Shake Mop Head – have mop head laundered after use. **Always keep used dust mop heads in sealed double plastic bags when stored at an armory or facility.** Shaking of a pre-treated mop head may release unwanted contaminants into surrounding atmosphere.

2. Frequency of Cleanup – Armories will vary, according to usage and how often they should be cleaned. The following cleaning schedule is provided:

    a. Only full-time technicians and traditional soldiers using facility during the month. (Cleaned Monthly.)

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b. Occasional activities taking place during the month, for example, 1-2 classes or volleyball games, etc. (Cleaned Twice Monthly.)

c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - at least Weekly)

IMPORTANT NOTES:

1. **Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on the use of the Armory and IFR.**

2. **Clearance sampling/testing is to be accomplished by certified IH personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for whom you are cleaning and is not a converted IFR space, you may continue to utilize the Armory space before officials re-test this space. Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.**

3. **If lead cleanup work was contracted out, a third party should do the clearance sampling.**

4. **If young children and pregnant females are, or may be present, signs shall be posted on all facilities, warning of the potential danger of exposure to lead dust.**

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References

Army Regulation (AR) 11-34, The Army Respiratory Protection Program.

Army Regulation (AR) 40-5, Preventative Medicine.

Army Regulation (AR) 385-10, The Army Safety Program.

NGR 385-10, Army National Guard Safety and Occupational Health Program.

TB MED 503, The Army Industrial Hygiene Program.

Title 29, Code of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

TG 022, US Army Environmental Hygiene Agency (YSAEHA). Industrial Hygiene Evaluation Guide.

TG 141, US Army for Health Promotion and Preventative Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide.

IES Lighting Handbook

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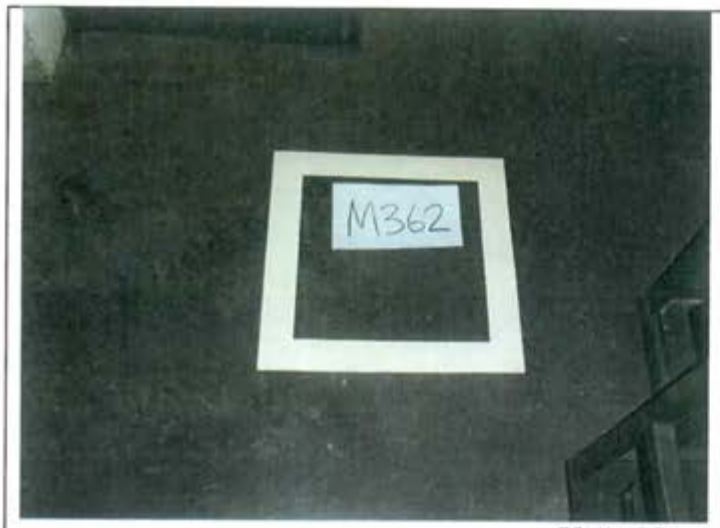

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Photo No. 2

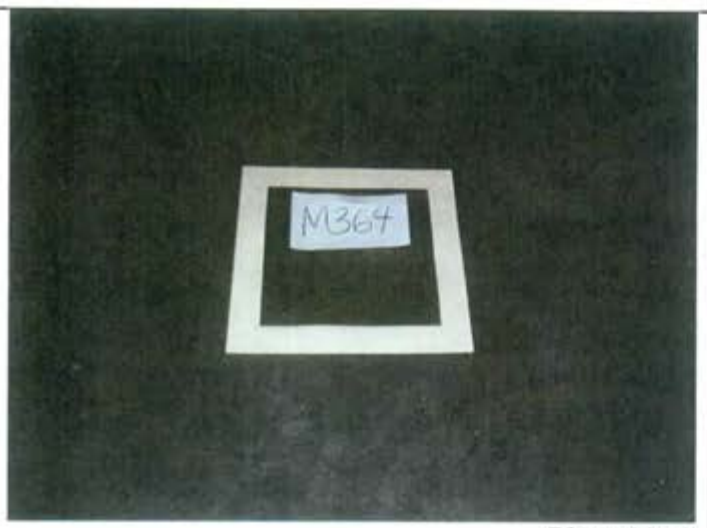
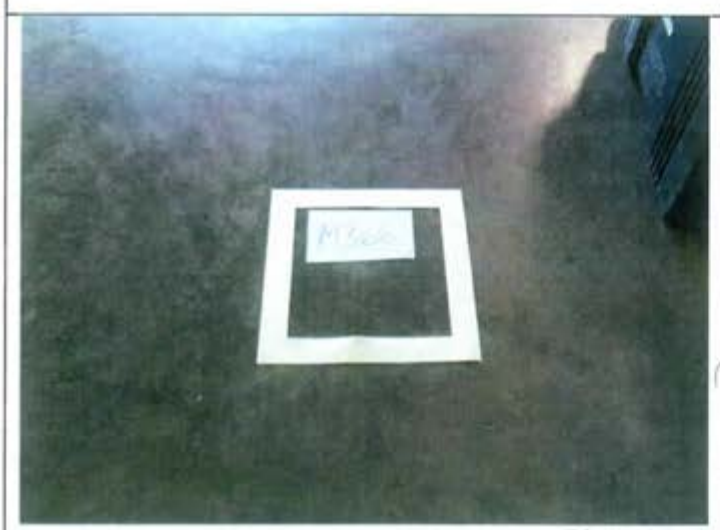


Photo No.3

Photo No.4



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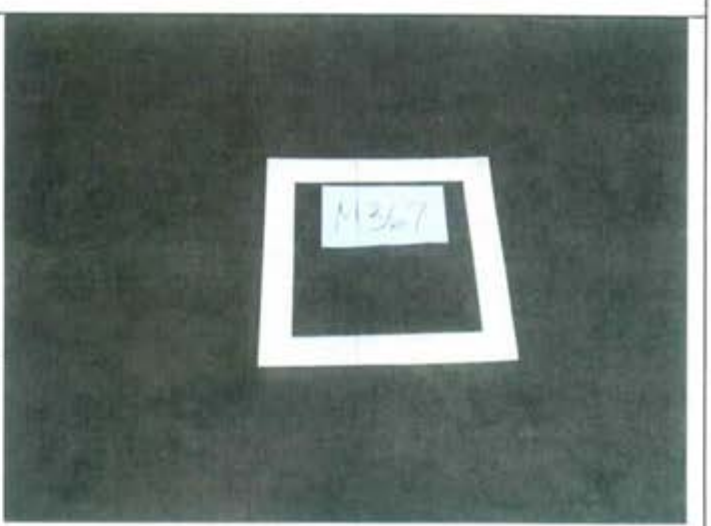

Photo No.6

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Photo No.7

Photo No.8

Photo No.9

Photo No.10

Photo No.11

Photo No.12

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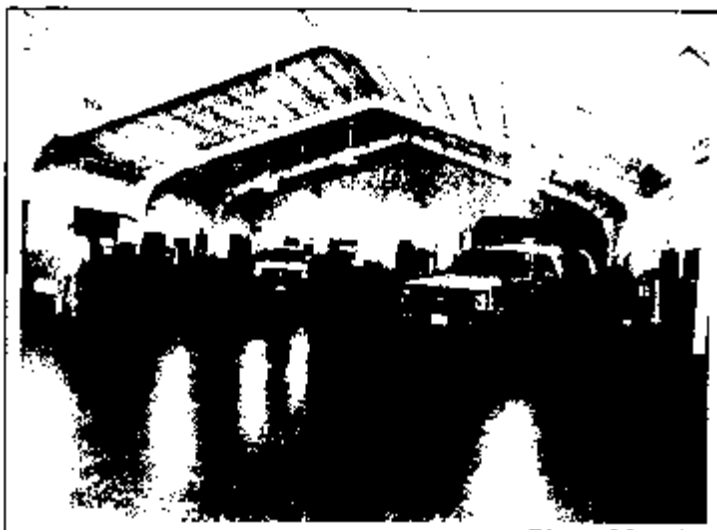

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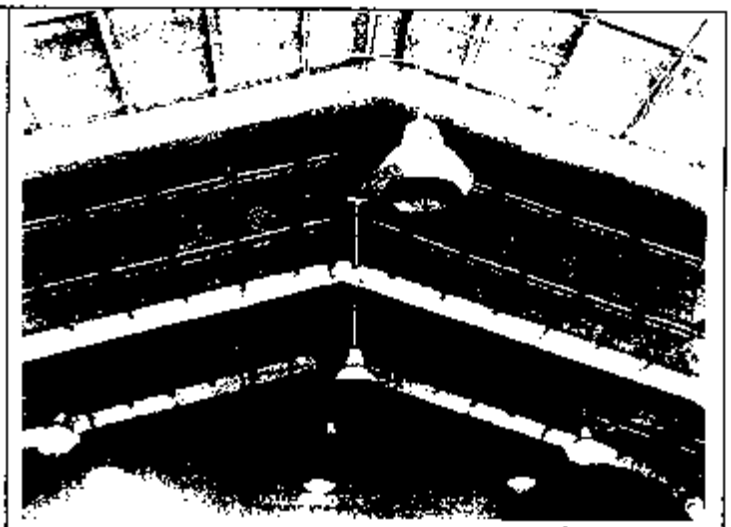

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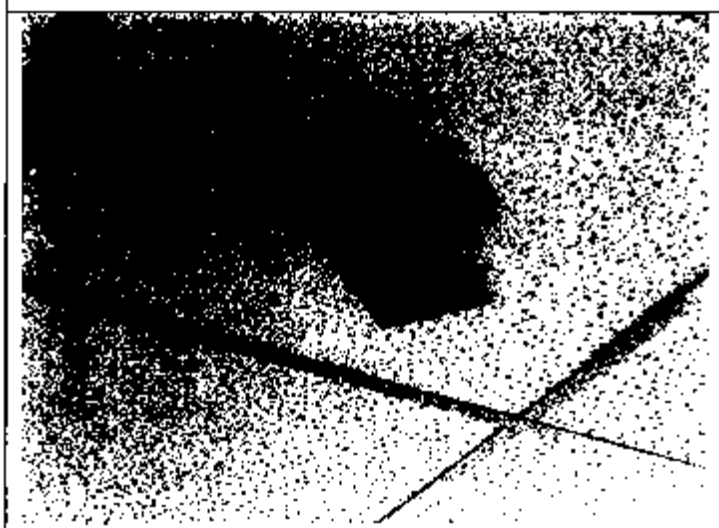

Photo No.15

Photo No.16

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Photo No.17

Photo No.18

Photo No.19

Photo No. 20

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Photo No.21

Photo No.22

Photo No.23

Photo No. 24

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

Date: February 3, 2009

MEMORANDUM THRU Non-Responsive State of Mississippi Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216

TO: Sergeant First Class Non-Responsive 890th Engineers/857th Horizontal Company, 1251B Highway 11 South in Picayune, Mississippi 39466.

SUBJECT: Picayune Armory Baseline Survey, 1251B Highway 11 South, Picayune, Mississippi.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 November 2007.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 561, Occupational and Environmental Pest Surveillance, June 1992.

f. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

g. The Illuminating Engineering Society of North America (IESNA) Lighting Handbook, 9th Edition, 2008.

h. USAEHA TG No. 138, Guidelines to Commensal Rodent Control, December 1991.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

j. National Guard Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

k. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

2. Introduction

a. As requested by Non-Responsive Occupational Health Office, personnel with the National Guard Bureau Region South Industrial Hygiene Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to identify potential hazards at the Mississippi Army National Guard facility.

b. Non-Responsive with the National Guard Region South Office performed the site investigation.

3. Findings

Building Interior

The building materials typically observed inside the armory consisted of brick walls covered with wallboard, concrete flooring covered with vinyl floor tiles and carpet along with metal ceilings with drop ceilings (acoustical ceiling panels) in the office, administrative offices and the armory's dining area. The materials observed appeared in good conditions and there was no evidence of damage noted. In addition, other areas inside the armory were identified as the supply storage area, weapons storage room, drill hall and kitchen.

In addition, there were two additional structures adjacent to the Picayune Armory. According to Sergeant (SGT) Compton, maintenance activities are conducted and the facilities are identified as the maintenance office and the maintenance bay. Generally, the building materials observed in the maintenance office were observed as vinyl floor tile, cinder block walls and wooden ceilings. The maintenance bay was observed with concrete floors with metal walls and ceiling.

Lead Wipe Sampling

Indoor Firing Range Sampling Results

An inactive indoor firing range (IFR) was observed at the Picayune Armory. The inactive firing range was currently in use as a storage area, with numerous supplies observed on the interior of the former range. During the survey, there was no bullet stop or other remnants of an IFR observed. It should be noted, that 20 lead wipe samples were collected by Staff Sergeant (SSG) Jason Shipp from the interior of the former indoor firing range on October 23, 2008. The collected samples were analyzed at Analytical Environmental Services, Inc. (AES) and the results indicated the presence of lead at concentrations exceeding the regulatory standard of 200 micrograms per square foot ($\mu g/ft^2$). Specifically, elevated lead concentrations were detected in three wipe samples at 881 $\mu g/ft^2$, 622 $\mu g/ft^2$ and 714 $\mu g/ft^2$, respectively. The results of the remaining 17 wipe samples did not indicate lead at concentrations above the laboratory detection limit.

Survey Sampling Activity

During the survey at the Picayune Armory, we were informed by SGT Compton that weapon cleaning is occasionally conducted inside the facilities weapons storage room. As a result, two samples were collected in the weapons room for the potential presence of lead dust. In addition, there were two samples collected from the drill hall floor for the presence of lead dust. Each lead dust sample was collected using Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

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The surface samples were collected by Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. The collected samples submitted to AES in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as a field blank sample for analysis.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
MSPI-01	Arms Room Floor	354
MSPI-02	Metal Shelving inside Arms Room	281
MSPI-03	NW Drill Hall Floor	BRL
MSPI-04	NE Drill Hall Floor	32
Field Blank	--	BRL

[1] Results reported in micrograms per square feet ($\mu g/ft^2$)
[2] BRL = Below Reportable Limits

The laboratory results indicate lead concentrations detected above the lead post decontamination standard. These sampling results indicate that decontamination should be conducted to adequately remove the lead dust from the weapons room as well as the former IFR to acceptable levels. In accordance with the National Guard Bureau Pamphlet 420-15, the IFR cannot be converted for other uses until the lead dust levels are reduced to $200\mu g/ft^2$ or lower depending on local requirements. The laboratory reports for the two sampling activities, including the Chain of Custody records are attached for review.

Hazardous Materials Survey

During the survey, hazardous materials were observed inside a wall locker located inside the armory locker room. The wall locker used for storing hazardous materials inside the armory's locker room, should be replaced with an appropriate hazardous materials flammable cabinet. There were also no material safety data sheets (MSDS) for the hazardous materials stored inside the wall locker.

There were also hazardous materials observed inside two flammable cabinets located in the maintenance office. The materials in the wall locker and flammable cabinets were observed in properly labeled, sealed containers and in upright positions. There was no evidence of spilled materials observed in the wall locker or flammable cabinets. MSDS were maintained in 3-ring binders inside the flammable storage cabinets observed in the maintenance office. According to SGT Compton, a Hazardous Communication Program has not been implemented at the armory.

The hazardous materials observed during the survey included the following:

- Breakthrough
- Automatic Transmission Fluid
- Lube Oil
- Brake Fluid Silicone
- Cleaning Compound
- Industrial Enamel Paint (various colors)
- Denatured Alcohol
- Windex
- Clorox

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- Corrosion Prevention Compound
- Fast Dry Cement
- Cleaning Solvent Degreaser.

There was a weapons/parts cleaning machine observed in the supply storage area adjacent to the weapons vault. According to Non-Responsive the weapons cleaning system was previously used for weapons cleaning, but will not be used in the future due to the corrosion caused by the weapons cleaning solution. Non-Responsive indicated that the hazardous material commonly referred to as breakthrough was used, however there was no MSDS available for the hazardous material. Non-Responsive also indicated that the filters for the weapons cleaning system were changed on an "as needed basis" and subsequently transported to a maintenance facility for disposal with any oily rags used for weapons cleaning.

Illumination Survey

To determine the illumination measurements in each office area, an illumination survey was conducted using a manufactured calibrated Extech Model 407026 Light Meter. The recorded illumination measurements are depicted in the following table:

Illumination Survey Results

Location	Measurement (ftc[1])	Standard[2] (ft-c)
Supply Storage Area	33.0	3-10
Supply Room Office	100.5	5-50
Dining Area	38.0	3-10
Kitchen	115.0	3-50
Female Latrine	25.0	5-50
Male Latrine	48.0	5-50
Maintenance Office	86.5	5-50
Admin Office	43.0	5-50
Recruiter's Office	80.5	5-50
Classrooms 1 and 2	85.0	5-50
Platoon Office	56.0	5-50
Locker Room	34.0	5-50
Training Office	52.0	5-50
Assembly Hall	131.0	3-10
Indoor Firing Range	63.5	3-30
Weapons Vault	58.0	3-10
Commander's Office	59.0	5-50
Kitchen Supply Room	27.0	3-50
Hallway	30.0	3-5

[1] ft-c – foot candles
[2] IESNA Lighting Handbook, 9th Edition, 2008

The illumination survey results did not indicate measurements recorded below the recommended standards.

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May, 2018

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Maintenance Operations

In buildings adjacent to the Picayune armory, maintenance activities are apparently conducted during drill weekends and according to Non-Responsive, there is maintenance activities completed periodically during the work week by a single full-time employee. At the time the site visit was conducted there was no maintenance activity conducted and the full time employee was not present at the site. Equipment observed inside the maintenance building included an electric drill press, a ball bearing grinder and an air compressor. The general maintenance activities conducted in the building consisted of performing automotive fluid changes along with conducting brake work. The waste fluids are collected for storage in 55-gallon capacity steel drums located in an exterior storage building. Containers used for storing the waste fluids were labeled and observed on spill control containment. Furthermore, according to Non-Responsive, fuel filters, oil filters, waste automotive fluids and other generated waste is transported to an FMS facility for proper disposal.

According to Non-Responsive automotive/equipment exhaust is typically eliminated by opening the overhead maintenance bay door located at the entrance of the work bay. There was no apparent evidence of a ventilation system observed during the site survey.

Inside the maintenance bay, there were several items observed which, when in use could potentially generate elevated noise levels. A portable electric drill press, ball bearing grinder, and air compressor were observed inside the maintenance bay. There was no mechanic on duty during the survey visit and there was no equipment in use which would allow generated noise levels to be evaluated.

Building Exterior

The building exterior was observed for the presence of evidence of rodent burrowing or concealment. There was no apparent evidence of burrowing and there was no dense vegetation observed surrounding the building exterior. Additionally, there was no apparent voids observed surrounding conduit entering the armory structure. It should also be noted that there was no apparent evidence of inappropriate storage of sanitary waste observed on the interior or exterior of the armory during the site investigation.

Photographs of the observation made during the inspection are attached for reference.

Health Hazard Information Module

Completion of the Health Hazard Information Module (HHIM) provides industrial hygienist with records of potential workplace hazards observed during completion of site surveys. The HHIM is used to assist with the recognition, evaluation and control of identified workplace hazards. As a result, an inventory of potential hazards was recorded during the survey and the potential hazards identified were recorded on HHIM Industrial Hygiene Survey forms. The hazards included the detected lead concentrations, hazardous materials storage, and potential noise hazards in the maintenance bay. Copies of the survey forms are attached for reference.

4. Recommendations.

a. Implement a Hazardous Communication Program in accordance with Occupational Safety and Health Administration (OSHA) requirements and in accordance with Army Regulation 385-10. Additionally, the MSDS notebook should also be labeled appropriately to indicate the contents of the notebook and placed in areas accessible to workers. Hazardous materials stored on the exterior and interior of the armory should be included in the MSDS notebook.

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b. The Hazardous Communication Program should include the following:
   - Read and understood the OSHA requirements.
   - Assign responsibility for tasks.
   - Prepare an inventory of chemicals.
   - Ensure containers with hazardous chemicals are labeled.
   - Obtain MSDS for each chemical.
   - Prepare written program.
   - Compose MSDS available to workers.
   - Conduct training of workers.
   - Establish procedures to maintain current program.
   - Establish procedures to evaluate effectiveness.

c. Although there was no evaluation for noise conducted during the survey, it is recommended that personnel wear hearing protection while working on the interior of the maintenance bay. Particularly when the drill press, grinder and air compressor are in use. Personnel should be trained on proper wearing, care and storage of provided hearing protection at the time of issue. It is also recommended that the Regional Industrial Hygienist be contacted when activities will be conducted in the maintenance bay for the purpose of conducting a noise evaluation in the bay. Furthermore, the assigned maintenance personnel should be placed in the medical surveillance and hearing conservation programs.

d. It should also be noted that the hazardous materials stored at the armory should be in upright positions and tightly sealed to prevent spills or leakage from occurring. All spills should be cleaned and cleaning materials should be disposed properly.

e. Conduct additional lead dust sampling to determine the absence/presence of lead on equipment/supplies inside the former IFR. Based on the laboratory results, initiate decontamination activities to include the equipment identified as having lead present above the regulatory standard of 200 $\mu g/ft^2$.

   i. Decontaminate Areas with elevated lead levels in the Indoor Firing Range following NGB PAM's 420-15 and 385-16. Remove all stored items before decontamination begins (see next paragraph for removal requirements).

   ii. Leaving stored items in the area may result in re-entrenchment of lead dust. Items stored in Indoor Firing Range must be decontaminated prior to their permanent removal.

   iii. After removal of store items and range equipment (such as; firing line, acoustical material and back stop) if any where left in place or in storage decontaminate the converted Indoor Firing Range (Supply/Storage room) of lead following NGB PAM 420-15

f. Prior to initiating decontamination activities and in accordance with 29 CFR 1910.1025, perform and conduct training for employees exposed to lead concentrations above the standard or who may suffer skin or eye irritation from exposure to lead.

g. Review NG Bureau Pamphlet 420-15 prior to conducting decontamination of the IFR and conduct cleaning activities in accordance with the regulatory document. Keep in mind that EPA (40 CFR Subpart D) and your state may have lead reduction levels lower than the levels recommended in NG Bureau Pamphlet 420-15.

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h. Ensure that appropriate personal protective equipment is worn during decontamination activities.

i. Consult with local Environmental Agency for guidance on proper disposal of materials used in decontaminating the IFR.

j. Upon completion of the decontamination activities, contact the Regional IH office for evaluation and collection of clearance lead dust samples prior to the use of the former IFR as a supply storage area.

5. If additional information is needed about the contractors report, please contact Non-Responsive Non-Responsive Regional Industrial Hygiene Technician, Non-Responsive Non-Responsive

Non-Responsive

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May, 2018

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 13, 2008

[redacted]
National Guard Bureau Region-South IH
1740 Congressmen W.L. Dickerson Dr.
Montgomery, AL 36116
TEL: [redacted]
FAX:

RE: Picayune Armory

Dear [redacted]

Order No.: 0811469

Analytical Environmental Services, Inc. received 20 samples on 11/6/2008 10:30:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

for Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: OC114

Date: 11/5/08 Page 1 of 2

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Dr College Park GA 30349

[redacted] Non-Responsive

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No. of Containers
1	1	10/23/08		X		Wipe	X	3" x 3" sample	1
2	2			X			X		1
3	3			X			X		1
4	4			X			X		1
5	5			X			X		1
6	6			X			X		1
7	7			X			X		1
8	8			X			X		1
9	9			X			X		1
10	10			X			X		1
11	11			X			X	Blank	1
12	12			X			X	3" x 3" sample	1
13	13			X			X	" "	1
14	14			X			X	" " "	1

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]		[redacted]	11/5/08 1700
			11/6/08 10:30

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD
OUT 11 5 08 VIA
IN VIA
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Picayune Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: Region South IH Office
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE # PO#

RECEIPT
Total # of Containers: 14

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y N Fax? Y N
DATA PACKAGE I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: HCl = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: [illegible]

Date: 11/5/08 Page 2 of 2

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Dr, College Park, GA 30349

[redacted] Non-Responsive

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. of Containers
1	15	10/23/08		X		Wipe	X	3" X 3" Sample	1
2	16	"		X		"	X	" "	1
3	17	"		X		"	X	" "	1
4	18	"		X		"	X	" "	1
5	19	"		X		"	X	" "	1
6	20	"		X		"	X	Blank	1
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: [redacted] DATE/TIME: [redacted] Non-Responsive

RECEIVED BY: DATE/TIME: 11/5/08/1700 11/6/08 10:30

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: OUT 11.5.08 VIA; IN VIA; CLIENT FedEx UPS MAIL COURIER; GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Picayune Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: Region South IH Office

INVOICE TO (IF DIFFERENT FROM ABOVE):

QUOTE #: PO #:

RECEIPT

Total # of Containers: 20

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any): E-mail? Y N Fax? Y N

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: HCl = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA ARMY Work Order Number 0811469

Checklist completed by Non-Responsive [redacted] 11/7/08
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)* MD 11/7/08	Yes ✓	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No ✓ MK 11/7/08

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Analytical Environmental Services, Inc.

Date: 11/13/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South 1H
Project: Picayune Armory
Delivery Order:
PO No:

Lab Order: 0811469
Date Received: 11/6/2008 10:30 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
0811469-001A	1	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-002A	2	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-003A	3	881	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-004A	4	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-005A	5	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-006A	6	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-007A	7	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-008A	8	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-009A	9	622	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-010A	10	BRL	µg/ft²	320	1	10/23/2008	11/11/2008	MAW
0811469-011A	11	BRL	ug, Total	20	1	10/23/2008	11/12/2008	MAW
0811469-012A	12	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-013A	13	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-014A	14	714	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-015A	15	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-016A	16	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-017A	17	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-018A	18	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-019A	19	BRL	µg/ft²	320	1	10/23/2008	11/12/2008	MAW
0811469-020A	20	BRL	ug, Total	20	1	10/23/2008	11/12/2008	MAW

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

December 03, 2008

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive
Suite 1530
Atlanta, GA 30349
TEL: [redacted]
FAX: [redacted]

RE: Picayune, MS. Armory

Order No.: 0811H87

Dear [redacted]

Analytical Environmental Services, Inc. received 5 samples on 11/26/2008 2:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]

for Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: [illegible]

Date: 11/25/08 Page 1 of 1

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Drive, Ste 1550 College Park, 30349

[redacted]

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

ANALYSIS REQUESTED: Lead

PRESERVATION (See codes)

#	SAMPLE ID	DATE	TIME	Grab	Compos	Matrix (See codes)	Lead	REMARKS	Number of Containers
1	MSPI-1	11/20/08		X		Wipe	X	1' x 1' sample taken	1
2	MSPI-2	"		X		"	X	" "	1
3	MSPI-3	"		X		"	X	" "	1
4	MSPI-4	"		X		"	X	" "	1
5	Field Blank	"		X		"	X		1
6									
7									
8									
9									
10									
11									
12									

[redacted]

RECEIVED BY / DATE/TIME

1. USPS 11/25/08 1700
2. [signature] 11/26/8 14:00
3.

SPECIAL INSTRUCTIONS COMMENTS

SHIPMENT METHOD
OUT 11 25 08 VIA:
IN VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Picayune, MS. Armory
PROJECT #
SITE ADDRESS:
SEND REPORT TO: Rodney Hamm
INVOICE TO (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#

RECEIPT
Total # of Containers: 5

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any)
E-mail? Y N Fax Y N
DATA PACKAGE I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Region South

Work Order Number 0811487

Checklist completed by Non-Responsive [redacted] 11/28/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Date: 12/5/2008

Analytical Environmental Services, Inc.

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Picayune, MS. Armory
Delivery Order:
PO No:

Lab Order: 0811H87
Date Received: 11/26/2008 2:00 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
0811H87-001A	MSPI-1	354	µg/ft²	20	1	11/20/2008	12/3/2008	MAW
0811H87-002A	MSPI-2	281	µg/ft²	20	1	11/20/2008	12/3/2008	MAW
0811H87-003A	MSPI-3	BRL	µg/ft²	20	1	11/20/2008	12/3/2008	MAW
0811H87-004A	MSPI-4	32	µg/ft²	20	1	11/20/2008	12/3/2008	MAW
0811H87-005A	FIELD BLANK	BRL	ug, Total	20	1	11/20/2008	12/3/2008	MAW

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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Photo 1: View of the Picayune, Mississippi Armory.

Photo 2: View of the maintenance bay and office adjacent to the armory.

Photo 3: View of armory motor pool.

Photo 4: View of additional military equipment stored in armory with hazardous material storage buildings.

Project Name: Picayune, Mississippi Armory

Date Photos Taken: 20 November 2008

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Photo 5: View of the interior of the Picayune Armory.

Photo 7: View of lead wipe sample location inside the weapons vault.

Photo 6: View of interior of the inactive indoor firing range.

Photo 8: View of interior of the flammable cabinet located inside the maintenance office building.

Project Name: Picayune, Mississippi Armory

Date Photos Taken: 20 November 2008

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Photo 9: View of the second flammable cabinet inside the maintenance office building.

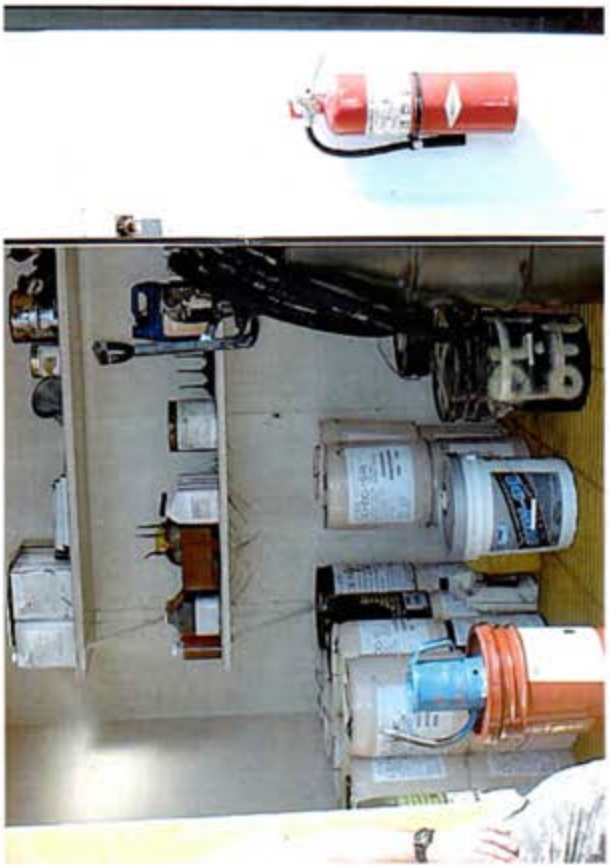

Photo 10: View of the interior of the hazardous materials storage building adjacent to the maintenance office building.

Photo 11: View of waste automotive fluid containers inside the hazardous materials storage building.

Photo 12: View of interior of the maintenance bay, including drill press and work station.

Project Name: Picayune, Mississippi Armory

Date Photos Taken: 20 November 2008

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Photo 13: View of the ball-bearing grinder observed inside the maintenance bay.

Photo 14: View of generator and hazardous materials spill containment observed inside the maintenance bay.

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Project Name: Picayune, Mississippi Armory

Date Photos Taken: 20 November 2008

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HHIMS Industrial Hygiene Survey Form

Front Page

ARLOC: 2 8 0 0 0

Installation: Hidayne Miss Armory

Building: Armory

Room Number: I F R

Evaluator -HNUS:

Macom: N G

Submacom: X X

RAC:

Unit / Organization (45):

[redacted]

Non-Responsive

N

Commercial

Frequency (hrs/day): 8

No. CIVs: 0

No. MIL: 1

Contractors: 0

No. LOCs: 0

ilation Units: 0 0

Controls Present (if>6, continue in comments)[25]:
Secure inactive IFR, no entrance allowed.

Evaluation (25 characters max):
Lead dust detedced above the standard

Unit Code:

Controls Required (25 characters max):
Secure room, prohibiting entrance

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves		X	
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying		X			
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield		X	
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit		X	
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other ACUs			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots		x	
safety shoes (conductive)			
safety(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back Page

CAS code	PAC	EPC
7 4 3 9 9 2 1	2	E

Hazard Description
Elevated levels of lead dust detected in the IFR.

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters r	MI	Sex	Category
	Babin			M	
	Compton				

☐ Personnel data provided by the facility is attached to this form

Comments **Remember to comment on problems, recommendations, and needed control items**

Following recommended cleaning of the vault, service members should discontinue weapons cleaning inside that area.
Vault should be cleaned in accordance with National Guard PAM 420-15.

☐ (comments continued on attached

☐ This operation was explained to the evaluators, but was not actually observed

There is a noise data sheet attached to this form ☐

This is a ventilation data sheet attached to this form ☐

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FOIA Requested Record #J-15-0085 (MS)
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HHIMS Industrial Hygiene Survey Form

Front Page

ARLOC: 2 8 0 0 0

Installation: Picayune, Miss. Armory

Building: Armory

Room Number: Main Bay

Location | Operation | Survey Date | Month | day

[redacted] Non-Responsive

Evaluator -HNUS

Macom: N G

Submacom: X X

RAC

Unit / Organization (45)

SN | Commercial

Frequency (hrs/day: 8

No. CIVs: 0

No. MIL: 4

Contractors: 0

No. LOCs: 0

Ventilation Units: 0 0

0 0 | 0 0 | 0 0 | 0 0

Controls Present (if>6, continue in comments)[25]	Evaluation (25 characters max)	Unit Code	Controls Required (25 characters max)
None	Potential noise hazards in the maintenance bay.		Issue hearing protection.
			Complete noise survey.

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton		X	
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses		X	
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
helmet w/ muffs			
muffs alone		X	
(108-118)muff/earplug comb			
muffs and earplugs with time limit (118 or >)			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective vest/suit			
safety belt/harness			
special purp. Clothing			
other ACUs			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back Page

CAS code	PAC	EPC	Hazard Description
	2	F	Potential noise hazards requiring further evaluation

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters r	MI	Sex	Category
				M	

☐ Personnel data provided by the facility is attached to this form

Comments **Remember to comment on problems, recommendations, and needed control items**

Equipment observed in the maintenance bay, when in use, hearing protection recommended. Proper training and maintenance of issued hearing protection also recommended.
Completion of noise survey by IH when equipment in use by maintancne personnel.

☐ (comments continued on attached

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐

This is a ventilation data sheet attached to this form ☐

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HHIMS Industrial Hygiene Survey Form

Front Page

ARLOC: 2 8 0 0 0

Installation: Picayune, Miss. Armory

Building: Armory

Room Number: W e a p o n V a u lt

Location | Operation | Survey Date | Month | day

[redacted]

Non-Responsive

Evaluator -HNUS

Macom: N G

Submacom: X X

RAC

Unit / Organization (45)

SN | Commercial | Frequency (hrs/day): 8 | No. CIVs: 0 | No. MIL: 4 | Contractors: 0 | No. LOCs: 0

ntilation Units: 0 0

0 0 | 0 0 | 0 0 | 0 0

Controls Present (if>6, continue in comments)[25]

None

Evaluation (25 characters max)

Lead detected at 281 and 354 micrograms/sq ft

Unit Code

Controls Required (25 characters max)

Clean vault area thoroughly

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves		x	
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs with time limit (118 or >)			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective vest/suit			
safety belt/harness			
special purp. Clothing			
other ACUs			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back Page

CAS code	PAC	EPC
7 4 3 9 9 2 1	2	E

Hazard Description
Elevated concentrations of lead detected in the weapons vault

Social Security Number or Unique identifier

Last Name (20 characters max)
C o m p t o n

First Name (20 characters r

MI

Sex
M

Category

☐ Personnel data provided by the facility is attached to this form

Comments **Remember to comment on problems, recommendations, and needed control items**

Following recommended cleaning of the vault, service members should discontinue weapons cleaning inside that area.
Vault should be cleaned in accordance with National Guard PAM 420-15.

☐ (comments continued on attached

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐

This is a ventilation data sheet attached to this form ☐

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HHIMS Industrial Hygiene Survey Form

Front Page

ARLOC: 2 8 0 0 0

Installation: Picayune, Miss. Armory

Building: Armory

Room Number: M a i n t B a y

Location | Operation | Survey Date | Month | day

[redacted] Non-Responsive

Evaluator -HNUS

Macom: N G

Submacom: X X

RAC

Unit / Organization (45)

Commercial

Frequency (hrs/day): 8

No. CIVs: 0

No. MIL: 1

Contractors: 0

No. LOCs: 0

Lab Hoods	Vapor Degreaser	Spray Booths	Open Surface Tanks	Ventilation Units
0 0	0 0	0 0	0 0	0 0

Controls Present (if>6, continue in comments)[25]	Evaluation (25 characters max)	Unit Code	Controls Required (25 characters max)
Spill containment and sealed containers	**Generation of hazardous waste during maintenance**		**Don proper PPE when handling waste.**

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves		x	
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash		x	
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other **ACUs**			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots		x	
safety shoes (conductive)			
safety(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

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CAS code	PAC	EPC	Hazard Description
	3	A	Waste automotive fluids (oils, AF, TF) are generated during maintenance activities.

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters r	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments **Remember to comment on problems, recommendations, and needed control items**

Proper personal protective equipment should be worn when handling hazardous waste and materials.

Material safety data sheets (MSDS) should be maintained for all hazardous materials used and the a Hazardous Communication program implemented.

☐ (comments continued on attached

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐

This is a ventilation data sheet attached to this form ☐

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FOIA Requested Record #J-15-0085 (MS)
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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: [redacted], Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: [redacted], DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for re-application of lead sealant and Status of Lead Sampling, Indoor Firing Range, Pontotoc, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty one sampled were collected and submitted for testing of Total Lead. Of those twenty one samples, two blanks were included. One sample returned by Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia contained greater than 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 19 samples were collected, three from each surface area for submittal to AES in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Normally this area would be re decontaminated with a sample above 200 µg/ft² before application of the sealant, but sealant was applied and the areas were not sampled before its application therefore a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04. Before re-applying the encapsulation product to protect the area from external re entry of lead dust ensure all ventilation openings of the previous ventilation system are covered by at least a 5 mil plastic sealed around the edges to make it as air tight as possible. Re-sample the area after re-applying the sealant following manufacturer's recommendation.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to re-apply lead sealant in this area, meeting the above requirements is granted.

[redacted]
Regional Industrial Hygienist

CF: NGB-ARS-IHSE
[redacted]tate Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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June 7, 2010

MEMORANDUM FOR: State Safety Office, ATTN: NGMS-S Non-Responsive
2497 N West Street Jackson, MS 39216-2497

SUBJECT: Industrial Hygiene Lead Wipe Survey at a Future Storage Area (Old Indoor Firing Range), Company A 1-198th Armor, 1745 Highway 15 North, Pontotoc, Mississippi 38863

1. REFERENCES: See Attachment 3

2. BACKGROUND: At the request of Non-Responsive National Guard Bureau Regional Industrial Hygienist, Atlanta, Georgia, an Industrial Hygiene Lead Wipe Survey was performed at the Hernando Armory Old Indoor Firing Range, Army National Guard, Pontotoc, Mississippi on May 20, 2010. Non-Responsive, DBA: Minckler & Associates performed the survey. Non-Responsive from the Facility Maintenance Office in Jackson opened the area and provided a ladder to obtain ceiling wipe samples. The purpose of the survey was to perform lead wipe samples and verify that the old firing range has been cleared to store equipment and supplies. Latex paint had been applied to the walls and an epoxy coating to the floor.

3. INSTRUMENTATION: The following survey instrumentation was provided by the contractor and was used to obtain lead wipe dust samples.

   a) Ghost Lead Dust Wipes, Manufactured: August 28th,2008, Expiration: 02/12

4. Findings:

   a) Nineteen lead dust wipe samples were taken, using 12 inch by 12 inch templates. Four samples were above the federal standard of 40µg/ft². One sample was above the Army National Guard standard of 200µg/ft². Pictures of the lead sample wipes were taken (see attachment 2, photo's M03510 to M05310). The sample submission sheets and the analytical lead results were enclosed in the report (see attachment 1). The following table notes where the samples were taken, the surveyor's field number, and the lead results:

Location:	Surveyor's Field No:	Results:
East End Floor	M03510	185 µg/ft²
Middle of Floor	M03610	BRL
Entrance Door (Not Part of Range)	M03710	103 µg/ft²
North End Wall Wall	M03810	BRL

Note 1: µg/ft² refers to micrograms or one millionth of a gram per square foot
Note 2: BRL means below recorded level

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Location:	Surveyor's Field No:	Results:
North End Wall Screen	M03910	64 µg/ft²
North Middle Wall	M04010	BRL
North Top Wall	M04110	BRL
East Top Wall	M04210	BRL
East Middle Wall	M04310	BRL
East Bottom Wall	M04410	BRL
South Top Wall	M04510	BRL
South Middle Wall	M04610	BRL
South Bottom Wall	M04710	BRL
West Top Wall	M04810	BRL
West Middle Wall	M04910	BRL
West Lower Wall	M05010	BRL
West End Ceiling	M05110	BRL
Middle Ceiling	M05210	BRL
East End Ceiling (Screen over the exhaust duct)	M05310	32100 µg/ft²
Blank	M05410	BRL

Note 1: µg/ft² refers to micrograms or one millionth of a gram per square foot
Note 2: BRL means below recorded level

5. Reference: Toxic Substance Control Act (TSCA) 403: Attachment 3

6. Lead Cleanup Procedures: See Attachment 4

7. RECOMMENDATIONS: See Attachment 5

8. TECHNICAL ASSISTANCE::

POC for further assistance concerning this evaluation is [redacted]

[redacted]
Industrial Hygiene Technician

CF:
State Safety Office
ATTN: NGMS-S [redacted]
2497 N West Street
Jackson, MS 39216-2497

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 28, 2010

Non-Responsive
Minckler & Associates
1503 Zaiger Dr
Colorado Springs CO 80915

TEL: (Non-Responsive
FAX: ([redacted]

RE: Pontotoc Armory

Dear Non-Responsive

Order No: 1005J76

Analytical Environmental Services, Inc. received 20 samples on 5/25/2010 10:20:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]

Project Manager

3785 Presidential Parkway • Atlanta, Georgia 30340 • Tel: (770) 437-8177 • FAX: (770) 437-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1005J76

Date: 5/20/10 Page 1 of 2

No. 2889 P. 1

COMPANY: MINCKLER + Associates

ADDRESS: 1503 ZAIGER DRIVE COLORADO SPGRS, CO 80915

[redacted]

Non-Responsive

ANALYSIS REQUESTED: Lead wipe (12"x12")

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	Lead wipe (12"x12")	REMARKS	No # of Containers
1	M03510	5/20/10	9:49			O	X	East end floor	
2	M03610	5/20/10	9:59			O	X	Middle floor	
3	M03710	5/20/10	10:07			O	X	Entrance floor	
4	M03810	5/20/10	10:15			O	X	North end floor	
5	M03910	5/20/10	10:18			O	X	North end wall screen	
6	M04010	5/20/10	10:24			O	X	North M wall	
7	M04110	5/20/10	10:34			O	X	North T wall	
8	M04210	5/20/10	10:43			O	X	East T wall	
9	M04310	5/20/10	10:52			O	X	East M wall	
10	M04410	5/20/10	11:00			O	X	East B wall	
11	M04510	5/20/10	11:08			O	X	South T wall	
12	M04610	5/20/10	11:18			O	X	South M wall	
13	M04710	5/20/10	11:27			O	X	South B wall	
14	M04810	5/20/10	11:40			O	X	West T wall	

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]	5/20/10 3:23 p	1: [signature]	5/25/10
		2:	W=20
		3:	

PROJECT INFORMATION

PROJECT NAME: Pontotoc Armory

PROJECT #: M0310

SITE ADDRESS: 1745 Highway 15 N. Pontotoc, MS 38863

[redacted]

Non-Responsive

RECEIPT

Total # of Containers

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N: Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER _____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Oct. 4. 2006 11:40AM

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page 2 of 2

COMPANY: Same
ADDRESS: Same
PHONE: same
FAX: same
SAMPLED BY: same
SIGNATURE: same

ANALYSIS REQUESTED: Lead wipe (12" X 12") X

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	M04910	5/20/10	12:52p			0	X	West M wall	
2	M05010	5/20/10	1:04p			0	X	West L wall	
3	M05110	5/20/10	1:16p			0	X	Ceiling W end	
4	M05210	5/20/10	1:27p			0	X	Ceiling M	
5	M05310	5/20/10	1:45p			0	X	Ceiling East end	
6	M05410	5/20/10	2:03p			0	X	BLANK	
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: [redacted] DATE/TIME: 5/20/10 3:23p

RECEIVED BY: 1: [signature] DATE/TIME: 5/25/10 10:20
2:
3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER _____

PROJECT INFORMATION
PROJECT NAME: same
PROJECT #: same
SITE ADDRESS: same
SEND REPORT TO:
INVOICE TO: (IF DIFFERENT FROM ABOVE) same
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (with req.)
- ( ) Other _____

STATE PROGRAM (if any): _____
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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No. 2889 P. 1
Oct. 4. 2006 11:40AM

Analytical Environmental Services, Inc

Date: 28-May-10

Lab Order:	1005J76
Client:	Minckler & Associates
Project:	Pontotoc Armory
Matrix:	Wipe
Date Received:	5/25/2010 10:20:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1005J76-001A	M03510	185	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-002A	M03610	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-003A	M03710	103	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-004A	M03810	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-005A	M03910	64	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-006A	M04010	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-007A	M04110	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-008A	M04210	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-009A	M04310	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-010A	M04410	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-011A	M04510	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-012A	M04610	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-013A	M04710	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-014A	M04810	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-015A	M04910	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-016A	M05010	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-017A	M05110	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-018A	M05210	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA
1005J76-019A	M05310	32100	µg/ft²	661	33.03		05/20/2010	05/27/2010	TA
1005J76-020A	M05410	BRL	µg/ft²	20	1		05/20/2010	05/27/2010	TA

Qualifiers: BRL - Not Detected at the Reporting Limit; DF - Dilution Factor

B - Analyte detected in the associated Method Blank

Results are blank corrected where applicable

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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Page 1106 of 1454

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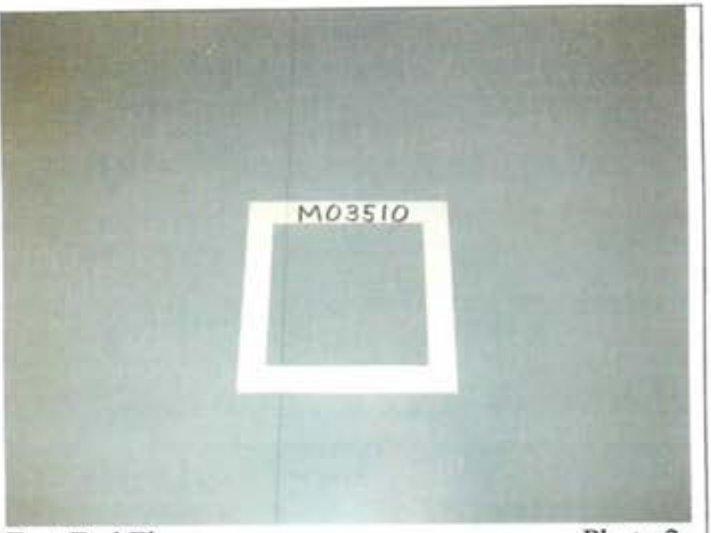
Storage Area (Old Indoor Firing Range) Photo 1

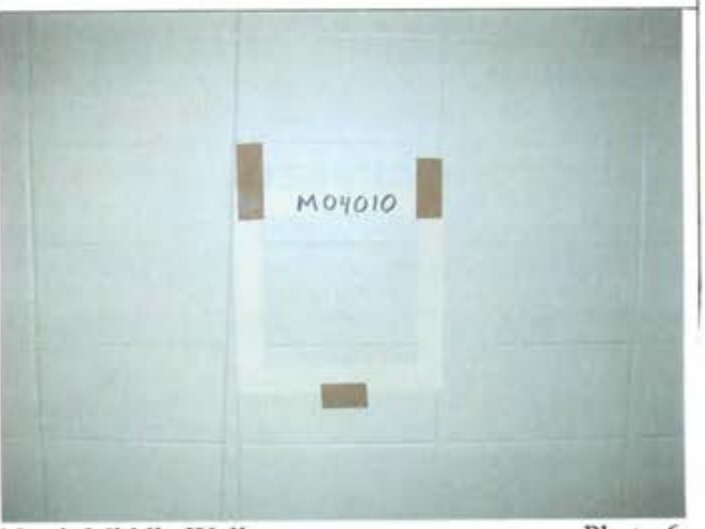


East End Floor Photo 2

Middle of Floor Photo 3

North End Floor Photo 4

North End Wall Screen Photo 5



North Middle Wall Photo 6

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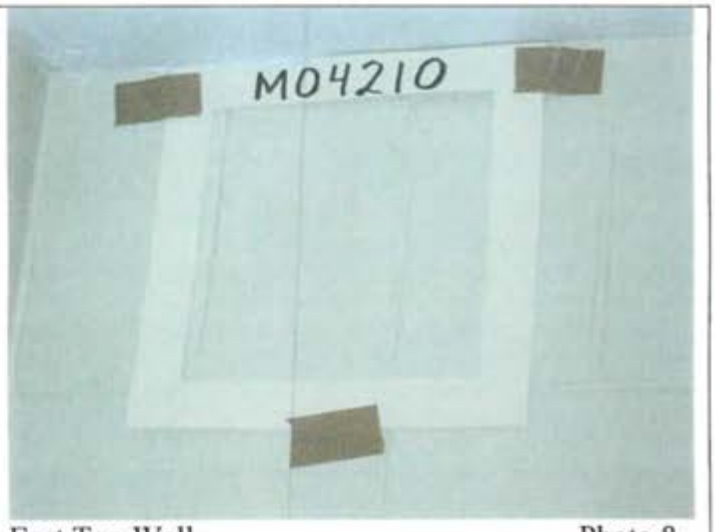
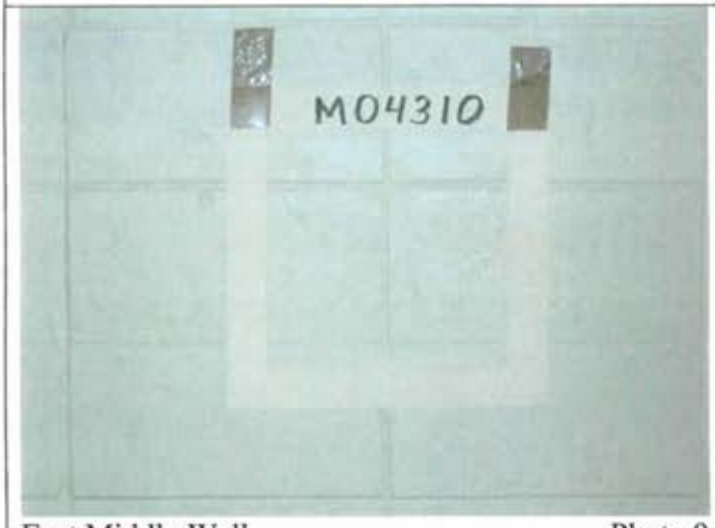
North Top Wall Photo 7



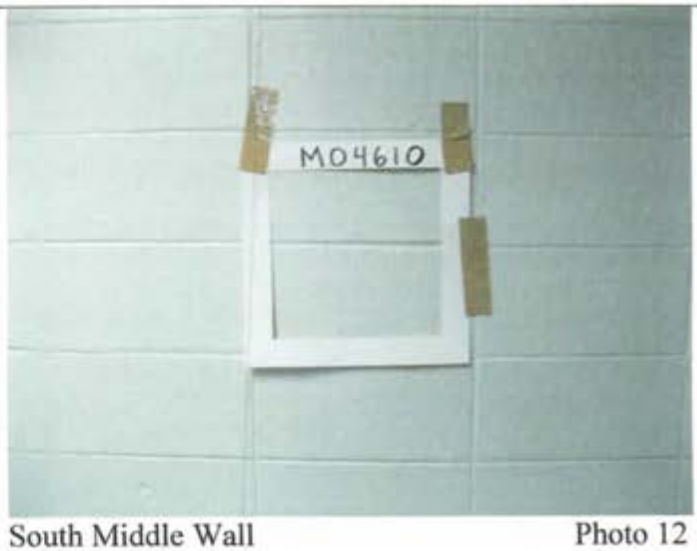
East Top Wall Photo 8



East Middle Wall Photo 9

East Bottom Wall Photo 10

South Top Wall Photo 11



South Middle Wall Photo 12

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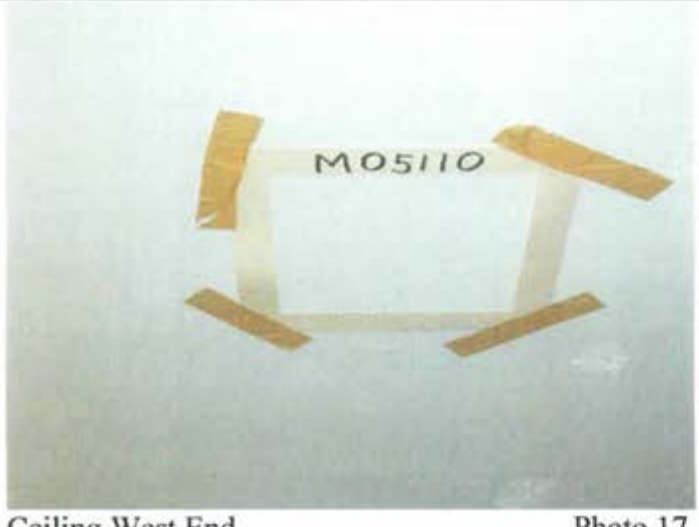
BEST AVAILABLE COPY

South Bottom Wall Photo 13

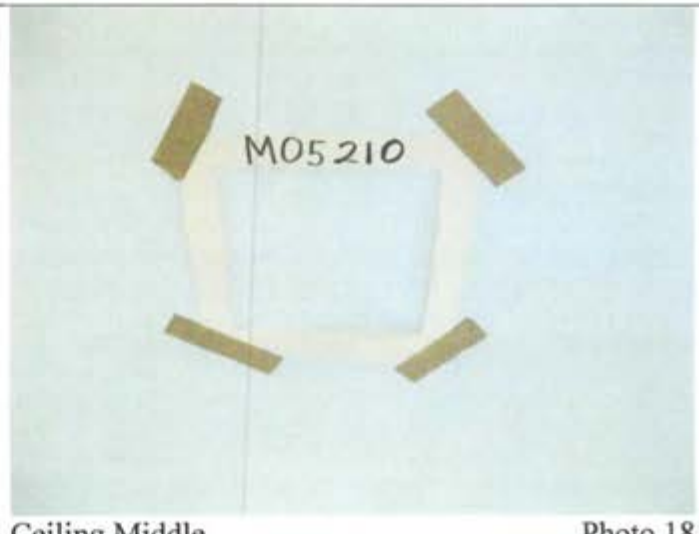
West Top Wall Photo 14

West Middle Wall Photo 15

West Lower Wall Photo 16



Ceiling West End Photo 17



Ceiling Middle Photo 18

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Ceiling Screen East End Photo 19

Screen Covering the Old Exhaust Vent Photo 20

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Attachment 3

Residential Lead Hazard Standards - TSCA Section 403

You will need Adobe Reader to view some of the files on this page. See EPA's PDF page to learn more.

As part of EPA's ongoing efforts to protect children from lead poisoning, the Agency announces new standards to identify dangerous levels of lead in paint, dust and soil. These new national standards are more protective than previous EPA guidance and will, for the first time, provide home owners, school and playground administrators, childcare providers and others with standards to protect children from hazards posed by lead, including children in federally-owned housing.

Under these new standards, federal agencies, including the U.S. Department of Housing and Urban Development, as well as state, local and tribal governments, will have new uniform benchmarks on which to base remedial actions taken to safeguard children and the public from the dangers of lead. These standards will also apply to other federal lead provisions, such as EPA's real estate disclosure requirements currently in place for persons selling or renting a home or apartment. These hazard standards will also serve as general guidance for other EPA programs engaged in toxic waste cleanups. In addition, these standards will provide landlords, parents, and childcare providers with specific levels on which to make informed decisions regarding lead found in their homes, yards, or play areas.

Health problems from exposure to lead can include profound developmental and neurological impairment in children. Lead poisoning has been linked to mental retardation, poor academic performance and juvenile delinquency. Nearly one million children in America today have dangerously elevated levels of lead in their blood. Because of the potential dangers, any exposure to deteriorated lead-based paint presents a hazard.

Under the new standards, lead is considered a hazard when equal to or exceeding 40 micrograms of lead in dust per square foot on floors, 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard.

Identifying lead hazards through these standards will allow inspectors and risk assessors to assist property owners in deciding how to address problems which may include lead paint abatement, covering or removing soil or professional cleaning of lead dust.

This action appears in the January 5, 2001, Federal Register (PDF) (36 pp, 357K).

Contact the National Lead Information Center (NLIC) to speak with an information specialist.

Final Rules and Policy in Effect

- 40 CFR Part 745, Lead; Identification of Dangerous Levels of Lead; Final Rule - 1/5/2001 (PDF) (36 pp, 357K)
- Authorization Status of States and Tribes (PDF) (1 pg, 67K)
- Interpretive Guidance for the Federal Program, TSCA Sections 402/403
- Economic Analysis of Toxic Substances Control Act Section 403: Hazard Standards (PDF) (207 pp, 1MB)

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May 2018

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Step-by-Step Summary

Cleaning: How To Do It

1. Include step-by-step procedures for precleaning, cleaning during the job, and daily and final cleaning in project design or specifications.

2. Assign responsibilities to specific workers for cleaning and for maintaining cleaning equipment.

3. Have sufficient cleaning equipment and supplies before beginning work.

4. If contamination is extensive, conduct precleaning of the dwelling unit. Move or cover all furniture and other objects.

5. Conduct ongoing cleaning during the job, including regular removal of large and small debris and dust. Decontamination of all tools, equipment, and worker protection gear is required before it leaves containment areas. Electrical equipment should be wiped and high-efficiency particulate air (HEPA) vacuumed, not wetted down, to minimize electrocution hazards.

6. Schedule sufficient time (usually 30 minutes to an hour) for a complete daily cleaning, starting at the same time near the end of each workday after lead hazard control activity has ceased.

7. For final cleaning, wait at least 1 hour after active lead hazard control activity has ceased to let dust particles settle.

8. Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceilings, walls, trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.

9. Wash all surfaces with a lead specific detergent, high-phosphate detergent, or other suitable cleaning agent such as Mr. Clean or Spic-n- Span to dislodge any ground-in contamination, then rinse. Change the cleaning solution after every room is cleaned.

10. Repeat step 8. To meet clearance standards consistently, a HEPA vacuum, wet wash, and HEPA vacuum cycle is recommended. For interim control projects involving dust removal only, the final HEPA vacuuming step is usually not needed. Other cleaning methods are acceptable, as long as clearance criteria are met and workers are not overexposed.

11. After final cleaning, perform a visual examination to ensure that all surfaces requiring lead hazard control have been addressed and all visible dust and debris have been removed. Record finding s and correct any incomplete work. This visual examination should be performed by the owner of an owner's representative who is independent of the lead hazard control contractor.

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12. If other construction work will disturb the lead-based paint surfaces, it should be completed at this point. If those surfaces are disturbed, repeat the final cleaning step after the other construction work has been completed.

13. Paint or otherwise seal treated surfaces and interior floors.

14. Conduct a clearance examination.

15. If clearance is not achieved, repeat the final cleaning.

16. Continue clearance testing and repeated cleaning until the dwelling achieves compliance with all clearance standards. As an incentive to conduct ongoing cleaning and a thorough final cleaning, the cost of repeated cleaning after failing to achieve clearance should be borne by the contractor as a matter of the job specifications, not the owner.

17. Do not allow residents to enter the work area until cleaning is completed and clearance is established.

18. Cleaning equipment list:

* HEPA vacuums.

* Detergent.

* Waterproof gloves.

* Rags.

* Sponges.

* Mops.

* Buckets.

* HEPA vacuum attachments (crevice tools, beater bar for cleaning rugs).

* 6-mil plastic bags.

* Debris containers.

* Waste water containers.

* Shovels.

* Rakes.

* Water-misting sprayers.

* 6-mil polyethylene sheeting (or equivalent).

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Attachment 5

Recommendations:

1. Due to the lead dust wipe results, it is recommended that the east end floor, middle floor, north end wall screen, and the east end ceiling vent ducts be thoroughly wiped down with an industrial cleaner using tri-phosphate, Mr. Kleen or Spic-n-Span. Take the exhaust vent screens off and contact the environmental office for screen disposal. For additional lead cleaning measures, see attachment 4. (RAC 1)

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI April 24, 2000

MEMORANDUM FOR: Adjutant General MS ARNG, ATTN.: Non-Responsive MS ARNG Occupational Health Office, State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Raymond Rd Armory Indoor Firing Range wipe sample results.

1. References.

   a. 385-10, Army Safety Program

   b. National Guard Regulation, AR 385-15, Policy, Responsibilities, and Procedures for Inspection/Evaluation and use of ARNG Indoor Firing Ranges, Draft March 2000

   c. Army National Guard Guidelines for Housekeeping, Rehabilitation and Conversion of Indoor Firing Ranges, Draft NGB Pam 385-15

   d. OSHA Standards 29 CFR (Code of Federal Regulations), 1910.1025, Lead Standard

   e. OSHA Standards 29 CFR (Code of Federal Regulations), 1926.62, Construction Standard

2. General. The sample results from samples taken at the Indoor Firing Range at the Raymond Rd Armory by Non-Responsive are enclosed.

3. Findings.

   a. A review of the sampling results show high concentrations of lead dust present at the time of the survey. The high levels of the wipe sampling require decontamination of the Raymond Rd Armory firing range.

   b. The wipe blank sample (#23) was not included in the sample bag labeled #23. A wipe sample media not used during the sampling but handled in the field exactly the same way as the used media needs to be included for each ten samples taken to document the presence or absence of cross contamination of the sampling media.

4. Recommendations.

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a. To establish a baseline level, prior to decontamination, the sampling needs to be repeated including a blank for each ten samples taken.

b. The sampling results follow the expected pattern of contamination and since no cross contamination is suspected the results can be used to initiate corrective action.

c. To initiate corrective action use the sample results as a guide when:

i. determining which ranges and what items stored in the ranges must be decontaminated.

ii. determining acceptance of ranges after housekeeping clean up and/or decontamination of a range.

b. Closely follow all recommendations in References 1.b and 1.c when decontaminating ranges. After decontamination perform a complete re-sampling following the same protocol.

c. Provide scheduled housekeeping cleaning and maintenance to those firing ranges new, old or retrofitted to preclude the accumulation of lead dust (see reference 1.c).

d. Follow the provisions of reference 1.e above for any construction or re-modeling project for any firing range to be renovated for other use.

5. If additional information is needed about industrial hygiene services or lead wipe sample results; please contact Mr. Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, 1- Non-Responsive [redacted]

Non-Responsive [redacted]

Regional Industrial Hygienist

ENCL.
as

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INITIAL INDOOR RANGE SAFETY AND INDUSTRIAL HYGIENE VISIT

RAYMOND ROAD ARMORY

UNIT JACKSON, MS LOCATION RAYMOND ROAD

DATE BUILT/RENOVATED ?

VENILATION SYSTEM: YES NO

TYPE:

TYPE BULLET STOP: METAL

SAND TRAP: YES NO SAND: YES NO

REMARKS: DID NOT SEE SAND TRAP ON FLOOR

IN OPERATION: YES NO

BEING USED AS: N/A

REMARKS: NONE

SIGNATURE Non-Responsive [redacted] DATE: 23 March

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Project Name: Raymond Rd Armory
Project Number:

BULK SAMPLE DATA

For use of ~~this form~~ USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349-6021

Name of Contact (name/AUTOVON)
Non-Responsive

Sampled Installation
INDOOR FIRING RANGE

Project Number
1

ARLOC

Samples Collected By
Non-Responsive

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Description of Operation
LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
RAYMOND ROAD ARMORY
JACKSON, MS

Associated Complaints (be specific)
NONE

Associated Air Samples
☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name

Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	BOTTOM LEFT WALL		
	2	CENTER LEFT WALL		
	3	TOP LEFT WALL		
	4	Top Left Bullet Stop End		
	5	Middle Bullet Stop End		
	6	Bottom Right Bullet Stop End		
	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst Initials | Reviewed by Initials | Date Received | Date Reported

Proposals Approved | Comments

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)

Sampled Installation
INDOOR FIRING RANGE

Project Number
1

ARLOC

Samples Collected by
Non-Responsive

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
RAYMOND ROAD ARMORY
JACKSON, MS

Associated Complaints (be specific)
NONE

Associated Air Samples
☐ Yes ☒ No

If yes, list sample numbers

Label Information

Trade Name	Pan	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	8	Middle Right Wall		
	9	Bottom Right Wall		
	10	Bottom Rear Wall		
	11	MIDDLE FLOOR		
	12	Top Rear Wall		
	13	Floor Right Bullet Stop		
	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported

Procedures Performed | Comments:

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)

Sampled Installation
[illegible] FIRING RANGE

Project Number
1

ARLOC

Samples Collected By
Non-Responsive

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
RAYMOND ROAD ARMORY
JACKSON, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Type Name	Ref	Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	15	Floor Left Rear Wall		
	16	Ceiling Left Bullet Stop		
	17	Ceiling Center		
	18	Ceiling Right Rear Wall		
	19	TABLE LEFT WALL		
	20	SHELF		
	21	TABLE RIGHT WALL		

Comments to Lab.

Lab Use Only

Analyst Initiated	Reviewed by Initiated	Date Received	Date Reported

Comments:

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)

Sampled Installation
INDOOR FIRING RANGE

Project Number
1

ARLOC

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Location (BLDG/AREA)

Non-Responsive

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name

Manufacturer

Address

MSDS Attached
☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	27	MIDDLE HEATER		
	23	Blank (Control Sample)		

Comments to Lab.

Lab Use Only

Analyst (Initials)	Reviewed by (Initials)	Date Received	Date Reported
Procedures Performed	Comments		

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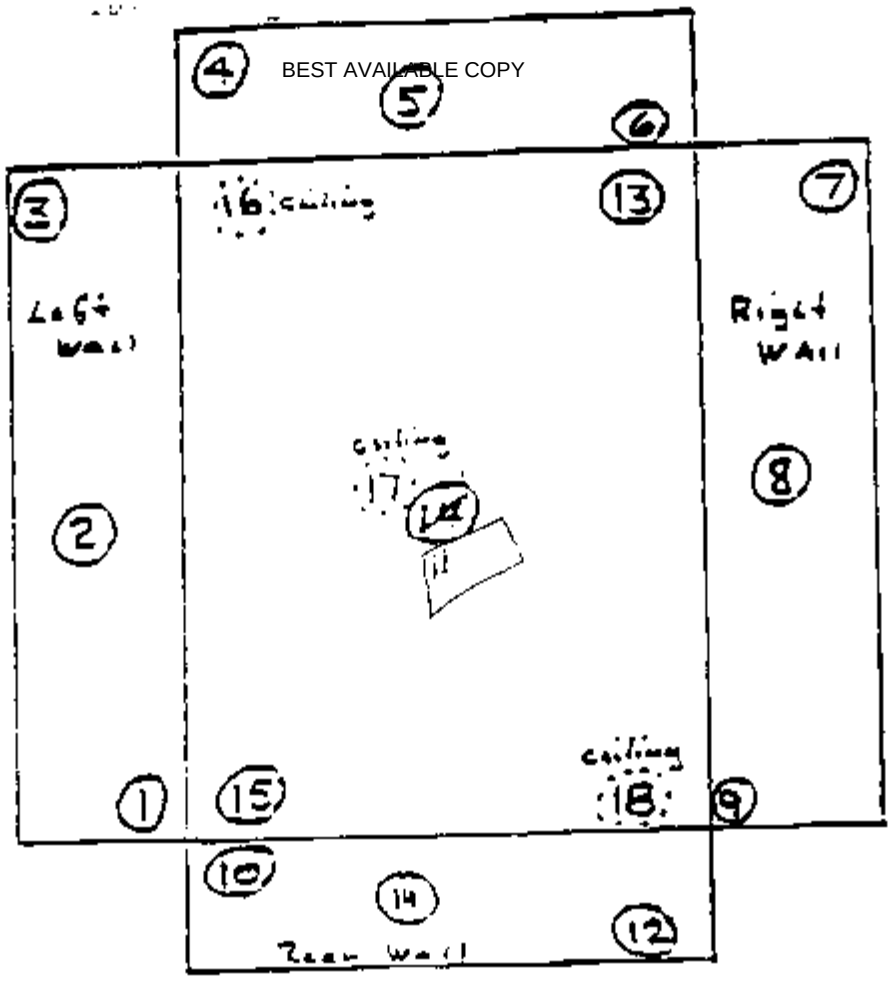

Contents of range sample

1. range sampling diagram
2. bulk sample data form
3. sampling swabs
4. distilled water
5. bulk sample container
6. treatment gloves

WALL

CEILING

FLOOR

1. Eighteen samples per rifle range will be taken.

   a. samples will be taken utilizing a 3"x 3" template.
   b. smear tabs will be moistened only with distilled water.
   c. samples are to be numbered and taken in correlation with the above diagram.
   d. each smear tab will be placed separately in a small, numbered plastic bag.

2. If property or equipment is being stored in the range take appropriate amount of samples not to exceed 15 each. Continue with the numbering system.

3. Bulk sample form AEHA 18A [illegible] completed and place [illegible]

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Project Name: Raymond Rd Armory
Project Number:

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349-6021

Point of Contact (name/AUTOVON)
Non-Responsive [redacted]

Sampled Installation
INDOOR FIRING RANGE

Project Number
1

ARLOC

Collected by
Non-Responsive [redacted]

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Description of Operation
LEAD SAMPLING OF INDOOR FIRING RANGE

Location (BLDG/AREA)
RAYMOND ROAD ARMORY
JACKSON, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Grade Name | **Manufacturer**

Address | **MSDS Attached** ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
024-001A	1	BOTTOM LEFT WALL		
002A	2	CENTER LEFT WALL		
003A	3	TOP LEFT WALL		
004A	4	Top Left Bullet Stop End		
005A	5	Middle Bullet Stop End		
006A	6	Bottom Right Bullet Stop End		
007A	7	Top Right Wall		

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed by (Initials) | Date Received | Date Reported

Standards Informed | Comments:

Posted to NGB FOIA Reading Room
May, 2018

BEST AVAILA

Non-Responsive [redacted]

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)

Sampled Installation
FLOOR FIRING RANGE

Project Number
1

ARLOC

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Non-Responsive

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Location (BLDG/AREA)
RAYMOND ROAD ARMORY
JACKSON MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample number's
☐ Yes ☒ No

Label Information

Trade Name | Manufacturer

Address | MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
004-008A	8	Middle Right Wall		
009A	9	Bottom Right Wall		
010A	10	Bottom Rear Wall		
011A	11	MIDDLE FLOOR		
012A	12	Top Rear Wall		
013A	13	Floor Right Bullet Stop		
014A	14	REAR CENTER WALL		

Comments to Lab:

Lab Use Only

Analyst (Initials) | Reviewed By (Initials) | Date Received | Date Reported

Procedures Performed | Comments:

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)

Sampled Installation
INDOOR FIRING RANGE

Project Number
1

ARLOC

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Non-Responsive

Description of Operation
LEAD SAMPLING OF FIRING RANGE.

Location (BLDG/AREA)
RAYMOND ROAD ARMORY
JACKSON, MS

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Name | Manufacturer

Address | MSDS Attached ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
024-015A	15	Floor Left Rear Wall		
016A	16	Ceiling Left Bullet Stop		
017A	17	Ceiling Center		
018A	18	Ceiling Right Rear Wall		
019A	19	TABLE LEFT WALL		
020A	20	SHELF		
021A	21	TABLE RIGHT WALL		

Comments to Lab:

Lab Use Only

Lab Set Initiated | Reviewed by (Initiated) | Date Received | Date Reported

Comments:

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address (complete address including Zip Code)
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON)

Sampled Installation
[illegible] FIRING RANGE

Project Number
1

ARLOC

Collected By
Non-Responsive

Date Collected
23 MARCH 00

Date Shipped
24 MARCH 00

Location (BLDG/AREA)

Description of Operation
LEAD SAMPLING OF FIRING RANGE

Associated Complaints (be specific)
NONE

Associated Air Samples If yes, list sample numbers
☐ Yes ☒ No

Label Information

Trade Name | **Manufacturer**

Address | **MSDS Attached** ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
[illegible]	[illegible]	MIDDLE HEATER		
[illegible]				
-23A	23	Blank (Control Sample)		

Comments to Lab:

Lab Use Only

Analyst (Initials) | **Reviewed by** (Initials) | **Date Received** | **Date Reported**

Procedures Performed | **Comments**

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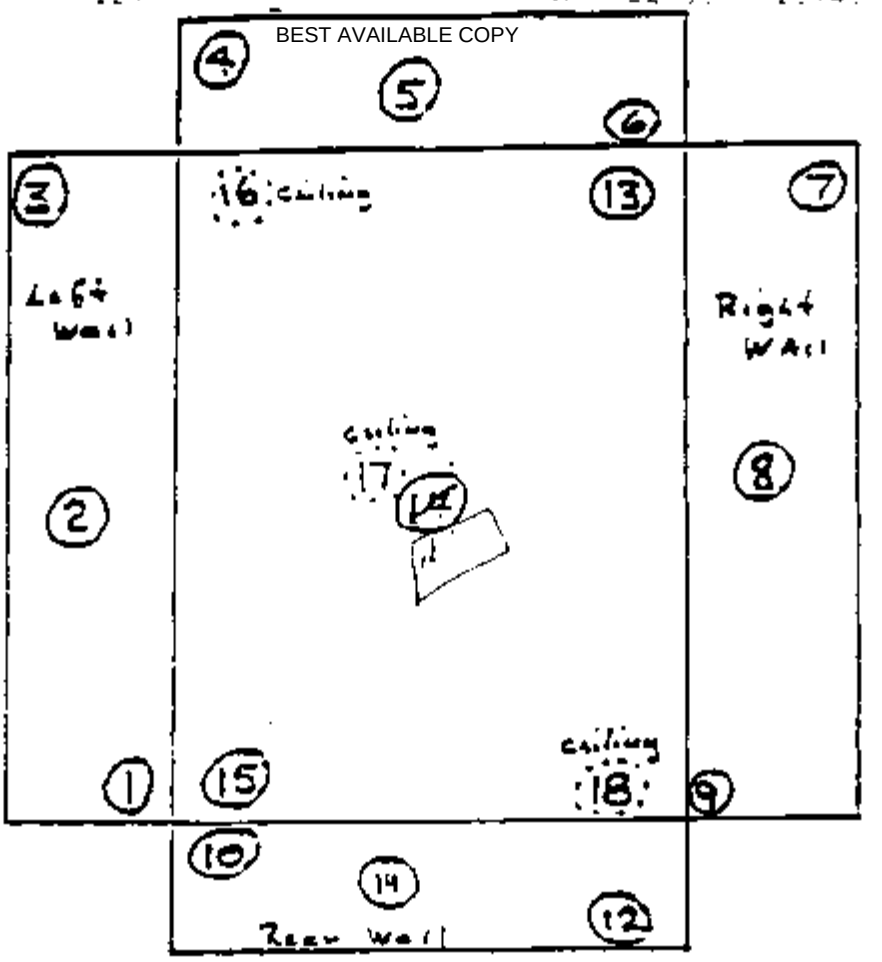

Contents of range sample

1. range sampling diagram
2. bulk sample data form
3. sampling swabs
4. distilled water
5. bulk sample container
6. treatment gloves

WALL

CEILING

FLOOR

1. Eighteen samples per rifle range will be taken.

   a. samples will be taken utilizing a 3"x 3" template.
   b. smear tabs will be moistened only with distilled water.
   c. samples are to be numbered and taken in correlection with the above diagram.
   d. each smear tab will be placed separately in a small, numbered plastic bag.

2. If property or equipment is being stored in the range take appropriate amount of samples not to exceed 15 each. Continue with the numbering system.

3. Bulk sample form (AEHA 78A [illegible]) should be completed and placed

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Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client Name GA ARMY NATL GUARD

Date and Time Receive 4/3/00 9:40:00 AM

Work Order Numbe 0004024

Received by Non-Responsive [redacted]

Checklist completed b Non-Responsive [redacted] 4/3/00 Date

Reviewed by Non-Responsive [redacted] 4.3.00 Date

Matrix

Carrier name UPS

Shipping container/cooler in good condition?	Yes ✔	No	Not Presen
Custody seals intact on shippping container/cooler?	Yes	No	Not Presen ✔
Custody seals intact on sample bottles?	Yes	No	Not Presen ✔
Chain of custody present?	Yes ✔	No	
Chain of custody signed when relinquished and received?	Yes ✔	No	
Chain of custody agrees with sample labels?	Yes	No ✔	
Samples in proper container/bottle?	Yes ✔	No	
Sample containers intact?	Yes ✔	No	
Sufficient sample volume for indicated test?	Yes ✔	No	
samples received within holding time?	Yes ✔	No	
Container/Temp Blank temperature in compliance?	Yes ✔	No	
Water - VOA vials have zero headspace?	No VOA vials submitted ✔	Yes	No
Water - pH acceptable upon receipt?	Yes ✔	No	

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments: Blank was missing which is the last sample
Empty bag submitted for sample #23

Corrective Action

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Analytical Environmental Services, Inc.

Date: *05-Apr-00*

CLIENT: GA Army National Guard
Lab Order: 0004024
Project: Raymond Rd Armory

Sample ID	Units	Lead
1	µg, Total	266
10	µg, Total	169
11	µg, Total	56900
12	µg, Total	209
13	µg, Total	29000
14	µg, Total	1460
15	µg, Total	33900
16	µg, Total	86
17	µg, Total	19
18	µg, Total	131
19	µg, Total	1240
2	µg, Total	92
20	µg, Total	25500
21	µg, Total	516
22	µg, Total	315
3	µg, Total	1180
4	µg, Total	54100
5	µg, Total	193000
6	µg, Total	99600
7	µg, Total	1420
8	µg, Total	275
9	µg, Total	39

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) 27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: Non-Responsive DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for conversion of Indoor Firing Range, Rolling Fork, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty sampled were collected and submitted for testing of Total Lead. Of those twenty samples, two blanks were included. All samples returned by the lab after analysis were bellow recordable levels (BRL), being the BRL 20 total.

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected, three from each surface area for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Even though no lead wipe sample was above 20 $\mu g/ft^2$ the areas were not sampled before application of lead encapsulating material, and a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04, the area could be used for storage only. To protect the area from external re entry of lead dust ensure all ventilation openings of the previous ventilation system are covered by at least a 5 mil plastic sealed around the edges to make it as air tight as possible. Also, prior to the replacement of the Armory's roof and the firing range's ventilation system remove all stored material or equipment to prevent its contamination in the event of a mishap with the enclosure of the system. Re-sample the area after roof remodeling is completed following the same protocol. Further, upon completion of conversion, this range is to be used only for storage as initially planned. Pregnant females or children cannot utilize this space in any capacity. No items should be stored in this space that is intended for use by children. There is no assurance that the standard for gestational females and children of less than 40 $\mu g/ft^2$ was met prior to the application of sealant. In addition, this range, after conversion will need to be tested yearly in order to ensure lead has not leached.

NGB-ARS-SEIH 27 June 2010

SUBJECT: Waver for conversion of Indoor Firing Range, Rolling Fork, MS.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to use this area as storage, meeting the above requirements is granted.

Non-Responsive

Regional Industrial Hygienist

CF: NGB-ARS-IHSE

Non-Responsive ate Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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MISSISSIPPI ARMY NATIONAL GUARD
(MS ARNG)

ROLLING FORK ARMY NATIONAL GUARD ARMORY
INDOOR FIRING RANGE
19719 HIGHWAY 61 SOUTH
ROLLING FORK, MISSISSIPPI 39159

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MS ARNG)

At
Rolling Fork Army National Guard Armory
Indoor Firing Range
19719 Highway 61 South
Rolling Fork, Mississippi 39159

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

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B. LEAD WIPE SPREADSHEET
C. MEMO AND FORM SUBMISSION TO LABORATORY
D. LABORATORY RESULTS
E. PHOTOGRAPH INDEX AND PHOTOGRAPHS

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SUBJECT:
Indoor Firing Range Lead Wipe Report for the Mississippi Army National Guard's Rolling Fork Armory Indoor Firing Range located at 19719 Highway 61 South, Rolling Fork, Mississippi 39159.

BACKGROUND:

Introduction:
At the request of Non-Responsive of the Army National Guard Bureau Region South Industrial Hygiene Office, lead wipe sampling was performed in the Rolling Fork Armory's Indoor Firing Range.
The main Point of Contact during the sampling process was Non-Responsive from the MS ARNG State Headquarters. She can be reached telephonically at Non-Responsive

Site Description:
The Rolling Fork Armory Indoor Firing Range has been cleaned and cleared of all previously stored items. The range walls, ceiling, and floor areal constructed of concrete. There are two overhead ventilation ducts in the ceiling by the firing line. The entrance to the range is also next to the firing line. Directly across from the door is another opening. All of the vents, with the exception of the vent down range (in front of the bullet trap area and mounted in the ceiling), have been sealed off (see photographs in Appendix E of this report). It was mentioned by MS Childress that the armory will be scheduled, in the future, to receive a roof replacement. When this is done, the ventilation systems will be removed from the indoor firing range. At the present time, the range appears to be in excellent condition and is very clean.
The range dimensions are: Length 74'; Width 21'; Height 11'.

Scope of Work:
Instructions were to take a minimum of eighteen (18) wipe samples throughout the indoor firing range area. Samples were taken on all four walls, the floor and the ceiling. A total of eighteen samples and two blanks were submitted to the laboratory for analysis.

Methodology:

Eighteen (18) lead wipe samples were taken in the indoor firing range. Individual 1′ X 1′ templates were utilized for each of the eighteen samples. Ghost Wipes were utilized as the collection medium for potential lead contamination.

Individual/separate pairs of latex gloves (surgical) were utilized for each individual sample to prohibit potential cross-contamination of the individual samples.

Individual samples were placed in their respective separate containers and labeled for sample identification purposes.

Samples taken from the four walls were accomplished by taking three individual samples (one at the bottom of the wall, one midway along and up the wall, and one at the top of the wall. The three floor samples were taken diagonally across the floor. The ceiling samples were taken similar to the floor samples. See the Range and Sample Identification Diagram in Appendix A and the Wipe Spreadsheet in Appendix B for further clarification.

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FINDINGS:

All of the lead wipes taken throughout the Rolling Fork indoor firing range indicated all samples were below the 20ug/sq.ft. reporting limit.

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APPENDIX A
INDOOR FIRING RANGE DIAGRAM WITH WIPE SAMPLE AREAS

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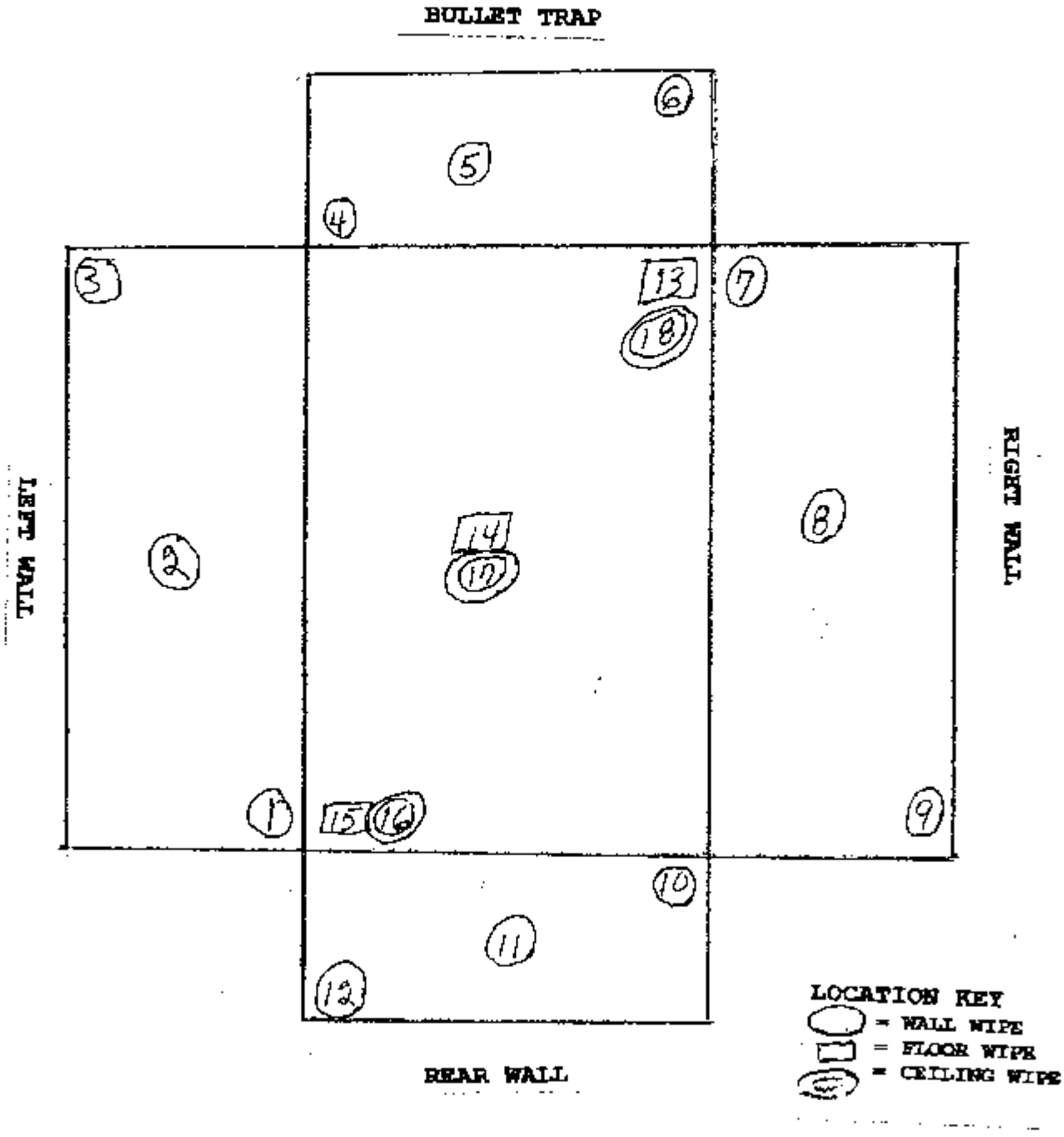
MS ARNG ROLLING FORK INDOOR FIRING RANGE LEAD WIPE DIAGRAM



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APPENDIX B
LEAD WIPE SPREADSHEET

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LEAD WIPE SAMPLE SPREADSHEET FOR MS ARNG ROLLING FORK ARMORY INDOOR FIRING RANGE 10 JUNE 2010

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
3 JUN 10	00-00L	BLANK	LEAD
3 JUN 10	00-01L	LEFT WALL, BOTTOM, BY REAR WALL	LEAD
3 JUN 10	00-02L	LEFT WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-03L	LEFT WALL, TOP, BY BULLET TRAP WALL	LEAD
3 JUN 10	00-04L	BULLET TRAP WALL, BOTTOM, BY LEFT WALL	LEAD
3 JUN 10	00-05L	BULLET TRAP WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-06L	BULLET TRAP WALL, TOP, BY REAR WALL	LEAD
3 JUN 10	00-07L	RIGHT WALL, BOTTOM, BY BULLET TRAP WALL	LEAD
3 JUN 10	00-08L	RIGHT WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-09L	RIGHT WALL, TOP, BY REAR WALL	LEAD
3 JUN 10	00-10L	REAR WALL, BOTTOM, BY RIGHT WALL	LEAD
3 JUN 10	00-11L	REAR WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-12L	REAR WALL, TOP, BY LEFT WALL	LEAD
3 JUN 10	00-13L	FLOOR, BY RIGHT WALL AND BULLET TRAP WALL	LEAD
3 JUN 10	00-14L	FLOOR, MIDDLE	LEAD
3 JUN 10	00-15L	FLOOR, BY LEFT WALL AND REAR WALL	LEAD
3 JUN 10	00-16L	CEILING, BY LEFT WALL AND REAR WALL	LEAD
3 JUN 10	00-17L	CEILING, MIDDLE	LEAD
3 JUN 10	00-18L	CEILING, BY BULLET TRAP AND RIGHT WALL	LEAD
3 JUN 10	00-19L	BLANK	LEAD

ALL WIPE SAMPLES TAKEN WITH A 12" X 12" (1 sq.ft.) TEMPLATE

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM

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APPENDIX C
MEMO AND FORM SUBMISSION TO LABORATORY

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TO: 12 JUNE 2010
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA, GEORGIA 30340-3704

FROM:
Non-Responsive
d/b/a HINCHCO
P.O. BOX 3083
18 BOAT COURT
PLACIDA, FLORIDA 33946

SUBJECT: LEAD WIPE SUBMISSIONS FOR MS ARNG, ROLLING FORK ARMORY INDOOR FIRING RANGE

GENTLEMEN:
I AM ENCLOSING YOUR FORMS, MY SPREADSHEET, FIRING RANGE DIAGRAM, THE SAMPLES, AND THIS MEMORANDUM.

PLEASE SEND THE RESULTS TO MY E-MAIL ADDRESS:
Non-Responsive

BILLING FOR ANALYSIS SHOULD BE SENT TO NGB INDUSTRIAL HYGIENE REGION SOUTH IN COLLEGE PARK, GA.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME TELEPHONICALLY AT Non-Responsive OR AT THE ABOVE MENTIONED E-MAIL.

SINCERELY,
Non-Responsive

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO
Address: PO Box 3083
Placida, FL 33946
Contact: [redacted]
Phone:
Fax:

Project Name/#: MS ARNG - Rolling Fork Armory Indoor Firing Range
Samplers Name: [redacted]
Sampling Date: 10 June 2010

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME START	TIME END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00-00L	Blank						Ghost Wipes		Lead
00-19L	Blank								
00-01L	Left Wall								
00-02L	Left Wall								
00-03L	Left Wall								
00-04L	Bullet Trap Wall								
00-05L	Bullet Trap Wall								
00-06L	Bullet Trap Wall								
00-07L	Right Wall								
00-08L	Right Wall								
00-09L	Right Wall								
00-10L	Rear Wall								
00-11L	Rear Wall								
00-12L	Rear Wall								
00-13L	Floor								
00-14L	Floor								
00-15L	Floor								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:	[redacted]	Date/Time	12 Jun 10 / 1030
Received By:	[redacted]	Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☐
Method of Shipment: UPS
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE FOLLOWING BUSINESS DAY. IF NO TAT IS MARKED ON COC ARE WILL PROCEED AS STANDARD TAT

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3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCO Contact:
Address: Phone:
Fax:

Project Name/#: MS DRNG - Rolling Fork Armory Indoor Firing Range
Samplers Name: [redacted]
Sampling Date: 10 JUNE 2010

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME		FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	INITIAL	FINAL	AVG		
00-16L	Ceiling								
00-17L	Ceiling								
00-18L	Ceiling								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:	[redacted]		
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☐
Method of Shipment: UPS
Lab Recipient:
Date:

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED [illegible]

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APPENDIX D
LABORATORY RESULTS

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 22, 2010

Non-Responsive

PO BOX 3083
Placida FL 33946

TEL: (217) 341-3796
FAX:

RE: MS Arng-Rolling Fork Armory Indoor Firing Range

Dear Non-Responsive

Order No: 1006E80

Analytical Environmental Services, Inc. received 20 samples on 6/16/2010 3:50:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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Analytical Environmental Services, Inc

Date: 23-Jun-10

Lab Order: 1006E80
Client: HINCHCO
Project: MS Ang-Rolling Fork Armory Indoor Firing Range
Matrix: Wipe
Date Received: 6/16/2010 3:50:00 PM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1006E80-001A	00-00L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-002A	00-19L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-003A	00-01L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-004A	00-02L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-005A	00-03L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-006A	00-04L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-007A	00-05L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-008A	00-06L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-009A	00-07L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-010A	00-08L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-011A	00-09L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-012A	00-10L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-013A	00-11L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-014A	00-12L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-015A	00-13L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-016A	00-14L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-017A	00-15L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-018A	00-16L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-019A	00-17L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA
1006E80-020A	00-18L	BRL	ug, Total	20	1		06/10/2010	06/18/2010	TA

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client HINCHCO Work Order Number 1006E80

Checklist completed by [redacted] 6/17/10
Signature Date

Carrier name: FedEx __ UPS ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? ~~(4°C±2)*~~ XB 6/17/10 Yes ✓ No __

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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APPENDIX E
RANGE PHOTOGRAPH INDEX
AND
PHOTOGRAPHS

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PHOTOGRAPH INDEX

1. ROLLING FORK ARMORY
2. INDOOR FIRING RANGE LOOKING DOWN RANGE
3. INDOOR FIRING RANGE LOOKING TOWARD FIRING LINE
4. FLOOR DRAIN, MIDDLE OF FLOOR
5. VENT OPENING IN FRONT OF BULLET TRAP
6. VENT OPENING AND DOOR BEHIND FIRING LINE
7. VANT OPENING AND DOOR OPENING BEHIND FIRING LINE

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ROLLING FORK INDOOR FIRING RANGE PHOTOGRAPHS

#1 – ROLLING FORK ARMORY

#2 – INDOOR FIRING RANGE LOOKING DOWN RANGE

ROLLING FORK INDOOR FIRING RANGE PHOTOGRAPHS

#3 – INDOOR FIRING RANGE LOOKING TOWARD FIRING LINE

#4 – FLOOR DRAIN, MIDDLE OF FLOOR

ROLLING FORK INDOOR FIRING RANGE PHOTOGRAPHS

#5 – VENT OPENING IN FRONT OF BULLET TRAP

#6 – VENT OPENING AND DOOR BEHIND FIRING LINE

ROLLING FORK INDOOR FIRING RANGE PHOTOGRAPHS

#7 – VENT OPENING AND DOOR OPENING BEHIND FIRING LINE

*****

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) 20 October 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: [redacted] Armory Supervisor, HHC 2/198th Combined Arms BN, Senatobia, Mississippi 38668.

Thru: [redacted], DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Senatobia Armory, Senatobia, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Senatobia Armory, Senatobia, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

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1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. [redacted]

[redacted]
Regional Industrial Hygienist

CF: [redacted] tate Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..
[redacted] Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL:
as

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OSHEA II
Industrial Hygiene Consulting

Mississippi Army National Guard

Senatobia Armory
400 Scott Street
Senatobia, Mississippi

OSHEA II *Industrial Hygiene Consulting * 5035 Ancilla Street * Hope Mills, NC 28348
Phone: 910.578.4461 * Fax: 910.424.0434

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MEMORANDUM FOR: Mississippi Army National Guard: ATTN: Non-Responsive
Armory Supervisor, HHC 2/198th Combined Arms BN, Senatobia, Mississippi 38668

SUBJECT: Baseline Industrial Hygiene Health Hazard Information Module (HHIM) Survey of HHC 2/198th Combined Arms Battalion, 400 Scott Street, PO Box 728, Senatobia, Mississippi 38668

October 10, 2011

1. REFERENCES

a. Title 29 Code of Federal Regulations (CFR) part 1910, Occupational Safety and Health Administration (OSHA).

b. Army Regulation 385-10, The Army Safety Program, 29 February 2000.

c. Army Regulation 11-34, The Army Respiratory Protection Program, 15 February 1990

d. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000

e. Industrial Ventilation, 25th Edition, The American Conference of Governmental Industrial Hygienist (ACGIH), Cincinnati, Ohio.

f. National Guard Regulation 385-10, Army National Guard Safety and Occupational Health Program 20 December 1989

g. IES Lighting Handbook, Application Volume 2000, Illumination and Engineering Society of North America.

h. DA PAM 40-501, Hearing Conservation Program, 10 December 1998

i. Technical Bulletin (TB MED) 503, 1 February 1985, The Army Industrial Hygiene Program.

j. Army Regulation (AR) 40-5, Preventive Medicine, 22 July 2005

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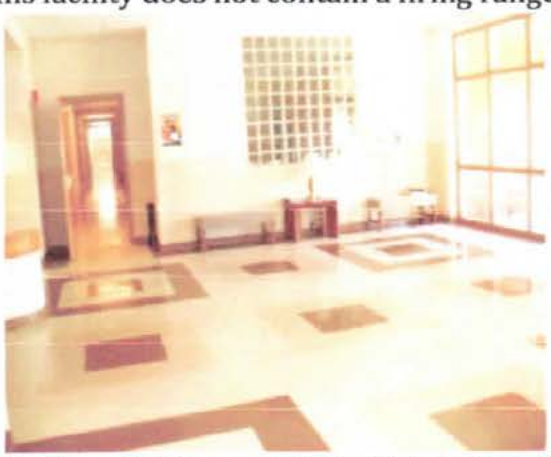
2 .**GENERAL:** At the request of Non-Responsive Regional Industrial Hygienist, National Guard Bureau South Atlanta, Georgia, a Health Hazard Information Module Baseline Survey was performed at Headquarters and Headquarters Company, 2/198th Combined Arms Battalion (CAB), Senatobia, Mississippi. The purpose of this survey was to evaluate health hazards, existing controls in the work site to perform a baseline survey in accordance with references 1a through 1j and collect bulk samples.

3. **FINDINGS:**

a. ***Armory Site Description***: The armory is occupied by Headquarters and Headquarters Company. There are sixteen full time individuals who perform administrative duties. Employees at this armory are commissioned and non Commissioned officers. HHC is down stairs. Headquarters battalion is located up stairs. The readiness NCO is SFC Joseph Williams. He was the point of contact for this survey. The two- story, 56,924 square feet facility is immaculate. The armory was constructed in October of 2001 and contains several offices/ administrative areas, auditorium, conference rooms, three class rooms, weight room, one combined kitchen/mess hall, supply room, and secured weapons room. This facility does not contain a firing range. The facility is only ten years old.



The foyer is tiled with beautiful designs and shades of tans and brown colored tile. It is decorated with military memorabilia and rich finished furniture also up the stairway.

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There was no evidence of some any water damage in the facility period. The floors of the armory were tiled with the exception of most administrative areas. There was no ceiling or floor tile found to be friable throughout the armory.

The majority of the commission personnel offices have carpeted floors.

Administrative Areas: Personnel perform administrative duties that consist of reading, handling and generating paper work. Employees use computers, generate and file paperwork. They co-ordinate training and answer phones.

The auditorium and a conference room

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The readiness NCO stated that this army is occupied by a battalion consisting of multiple units. They prepare, provide and help with training for all the units. There are twelve to thirteen units in the battalion and training is provided every month. Training is planned three to four months in advanced.

To carry out the mission of HHC 2/198 CAB there is a Executive Office (EO), S3- Assistant, Readiness NCO, Admin CO, Operations Assistant, Bradley Master Gunner, Tank Master Gunner, Operations SGT, Senior Human Resources SGT, Human Resources SGT, S4-Sustainment, Senior Support NCO, Support NCO, Supply SGT, and Health Care SGT capable of performing and providing assistance to all units in the battalion.

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The armory is equipped with a gym for all employees who need to do physical training. The floors are tiled and in excellent condition. The floor was a little dusty because the janitor had not mopped the room before photos were taken.

A large state of the art kitchen with all of the cooking, serving equipment, ovens, freezers and dish wash line is available for use to feed a significant numbers of people.

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Supply room

Drill floor

b. Material Safety Data Sheets (MSDS) were available and provided for hazardous materials used at this facility. HAZCOM training had been performed.

c. Hearing Conservation Program: All employees are enrolled in the installation's Hearing Conservation Program and receive annual audiograms.

d. Illumination: Illumination levels were recorded in all administrative areas, classrooms, conference rooms and supply areas throughout the Armory. See chart below for specific location of measurements. Other locations can be found behind Enclosure 1.

Illumination levels

Location	***Reading in Foot Candles***	***IES Standard***
Supervisor's Office	44.7-51.7	50-100 Foot candles
Auditorium	30.1----88.2	50-100 Foot candles
Classroom 1 Classroom 2 Classroom 3	13.7----16.3 51.3----59.4 52.5-----69.7	50-100 Foot candles
Drill Hall	38.1-- -55.6	50-100 Foot candles
Training Room	45.1-----44.5	50-100 Foot candles
Administrative areas	31.5----108.3	50-100 Foot candles
Conference Room	64.5----116.4	50-100 Foot candles
Planning Room	147.188.3	50-100 Foot candles
Supply Room	8.3-----23.7	50-100 Foot candles

The majority of readings are at the recommended IES lighting standard of 50 to 100 foot candles.

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e. Maintenance Bays/ Area: Armory's personnel perform no maintenance operations or vehicle repairs. A noise level survey was not performed, because vehicles are a part of the FMS shop.

f. Secured Rooms: Secured areas of equipment were controlled by the S2 and S3. They could not be unlocked by the POC during the survey because he did not have the keys to the rooms. Illumination levels could not be obtained in those rooms.

4. Technical Assistance:

For further assistance concerning this survey, you may contact Non-Responsive NGB Regional Industrial Hygienist at Non-Responsive

Non-Responsive

[redacted]

Industrial Hygienist

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RECOMMENDATIONS

a. Hearing Conservation Program. Continue with annual audiometric testing for relevant personnel in accordance with reference 1h. RAC 2

b. Hazardous communication or HAZCOM refresher training. Continue with annual HACOM training. Dated and signed records should be maintained of all HAZCOM training administered. RAC 3

c. Fluorescent bulbs need to be replaced immediately after they have become blown to give the maximum amount of light in classroom, offices, and training areas in accordance with reference 1h. If it occurs, a work order should be submitted to the appropriate office requesting repair/ replacement of fuses in non-functioning light fixtures. RAC 3

d. Based on the limited, short duration, nature, of contact cleaners, and solvents used at this armory, there is no need for a Respiratory Protection Program, neither is there a need to perform atmospheric monitoring during weapons cleaning if windows and doors are open to circulate air during weapons cleaning.

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Facility Lay out and Illumination Measurements

Enclosure No. 1

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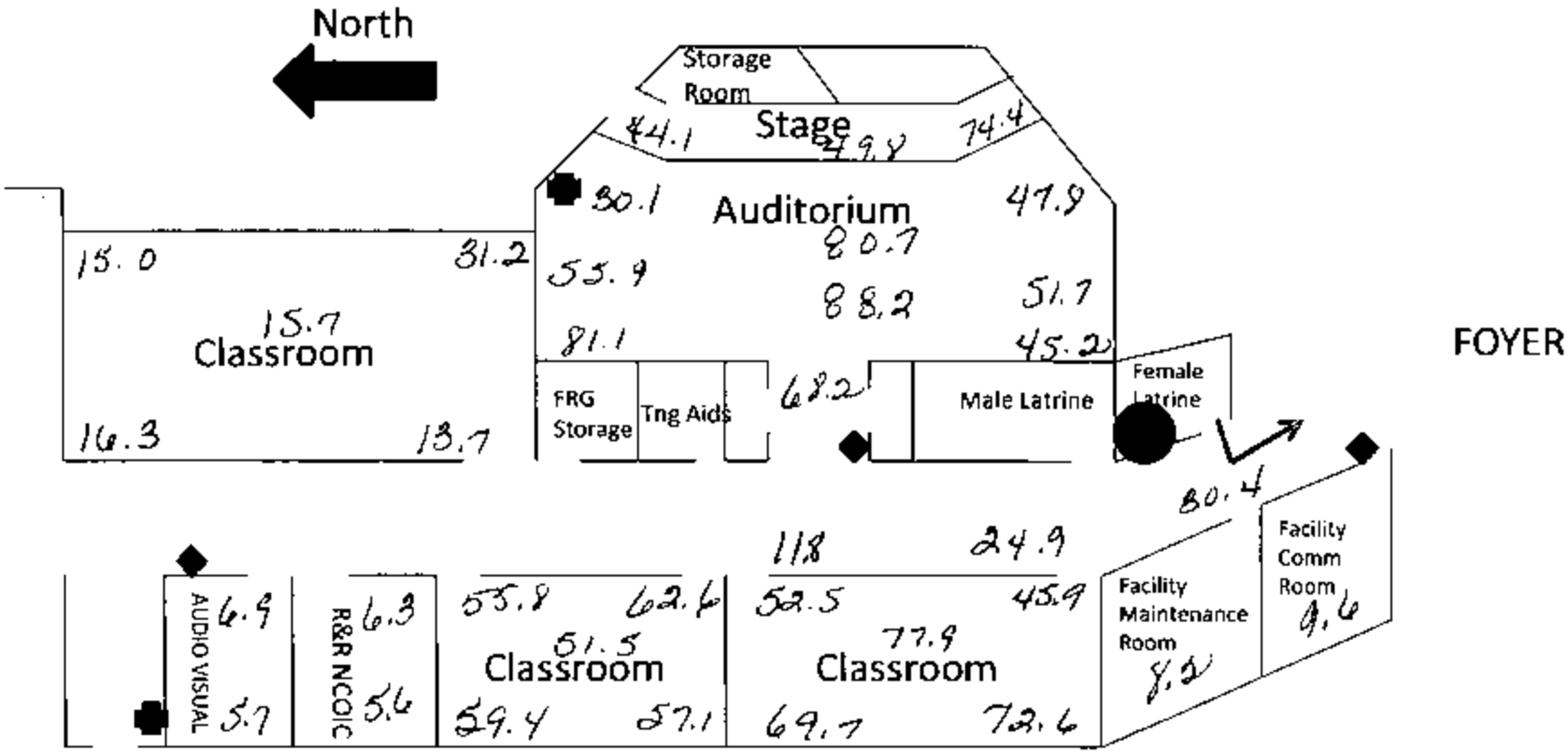
FIRST FLOOR WEST WING FIRE EXIT PLAN



In the event of a fire, the following procedure will be followed:

1. Alert the personnel in the building by yelling "FIRE" several times over the intercom.
2. Call 911. 3. Orderly evacuate the building 4. Attempt to extinguish the fire if possible.

LEGEND

1.Pull Station ■ 2. Personnel Location ● 3. Fire Ext. ◆ 4. Exit Route →

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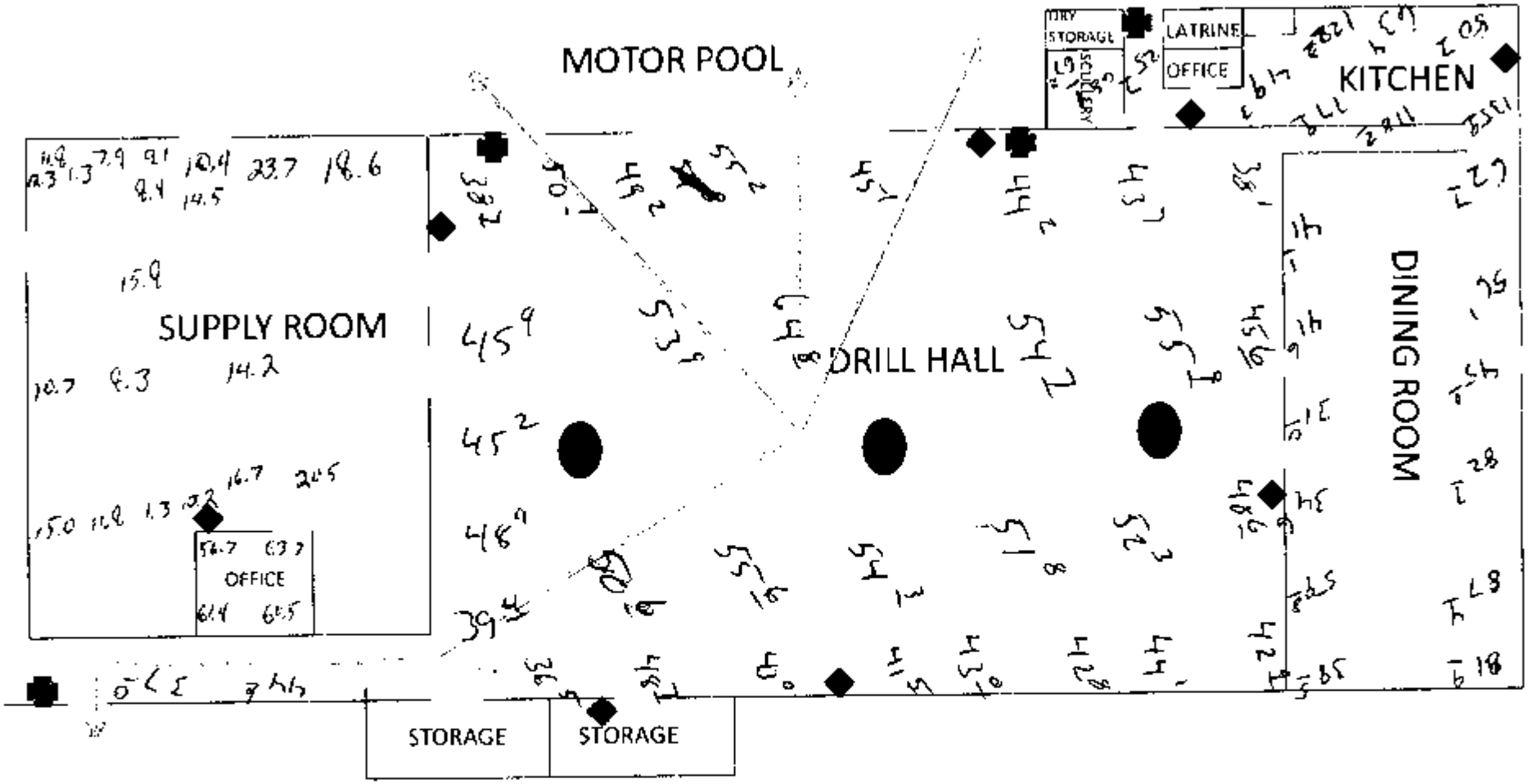
FIRST FLOOR EAST WING FIRE EXIT PLAN



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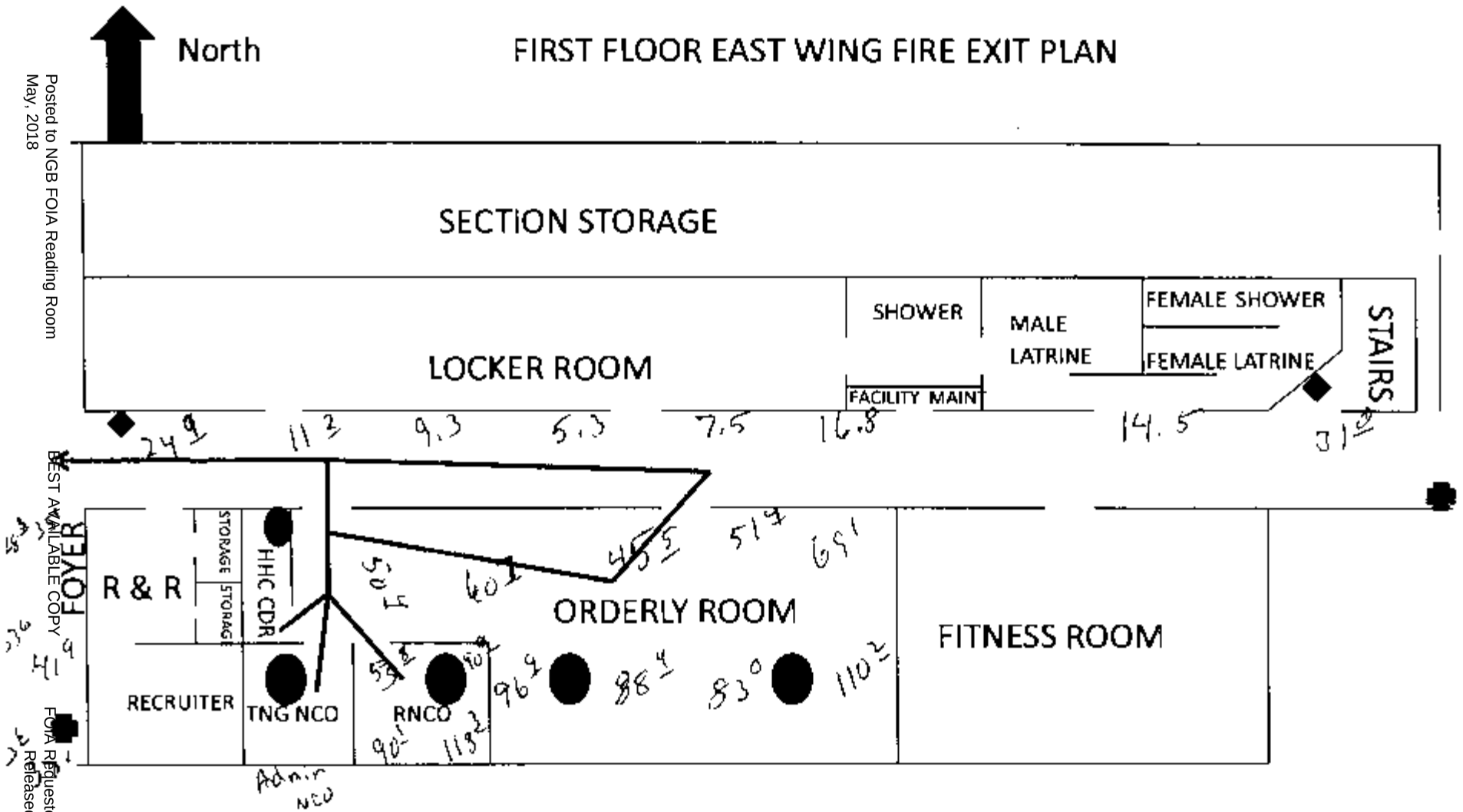
FIRST FLOOR EAST WING FIRE EXIT PLAN



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1.Pull Station ■ 2. Personnel Location ● 3. Fire Ext. ◆ 4. Exit Route ⟶

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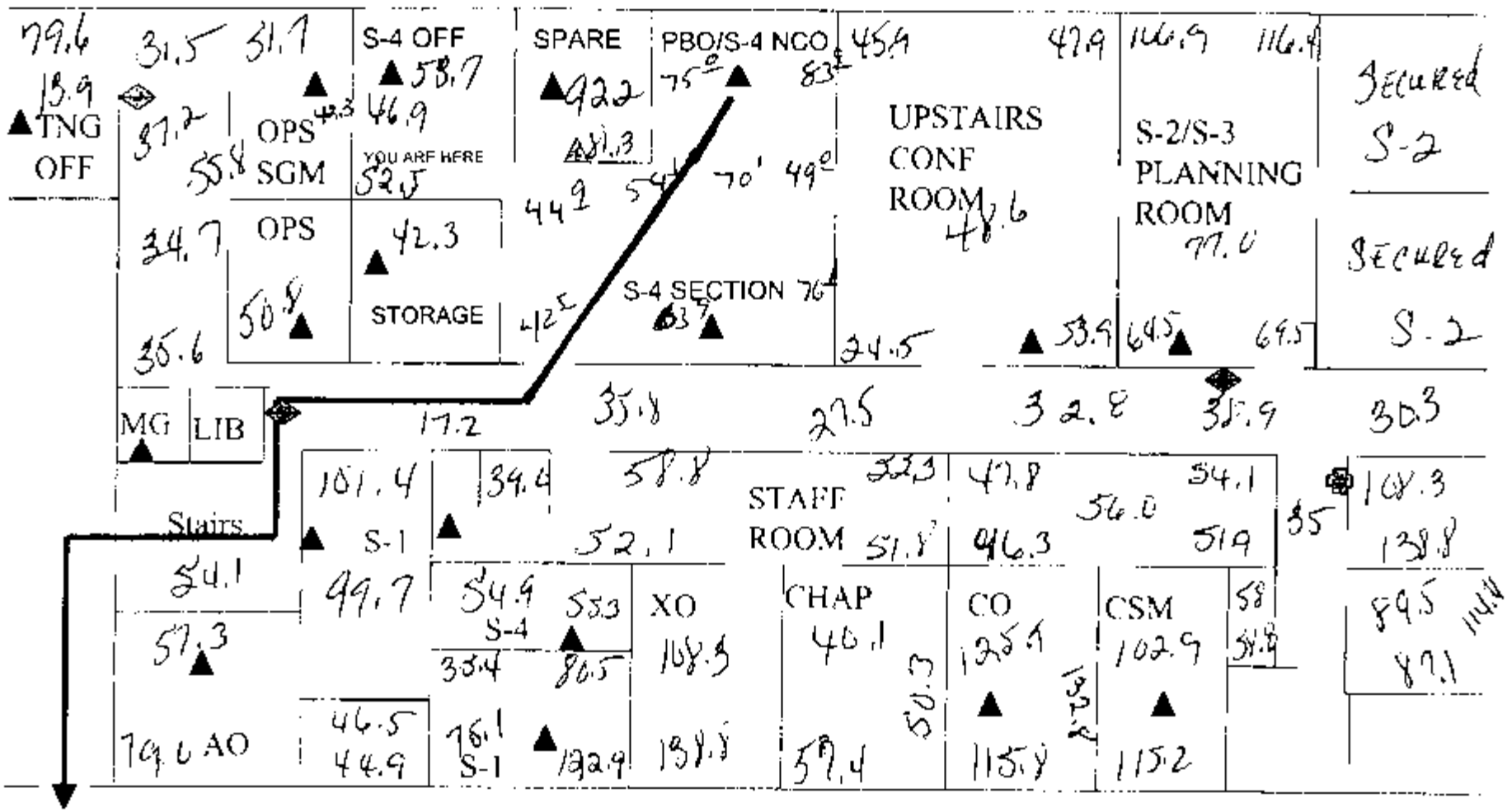
SECOND FLOOR

Denotes Fire Ext.

Denotes Phone

Denotes Fire Pull Stations.

N



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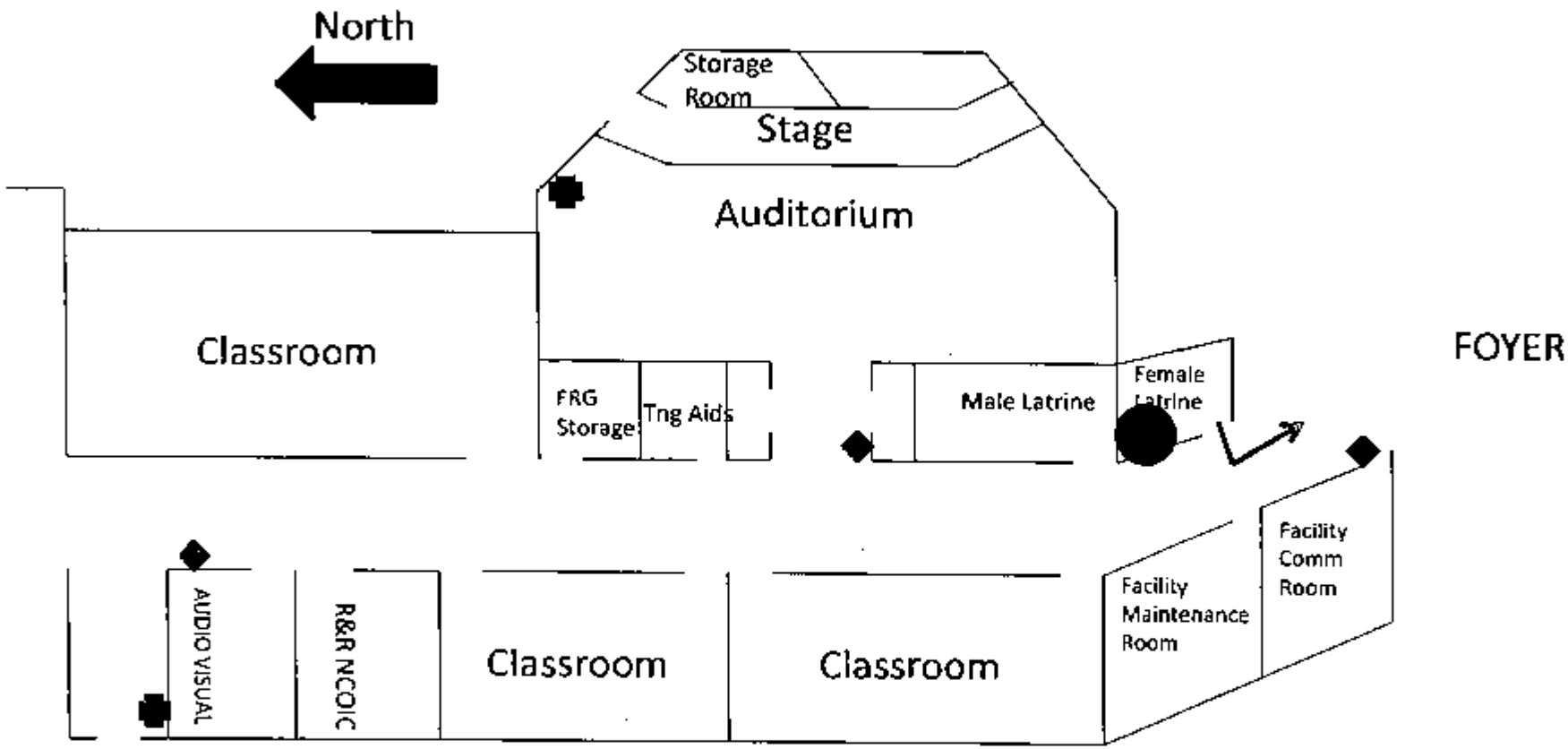
FIRST FLOOR WEST WING FIRE EXIT PLAN



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LEGEND

1.Pull Station 2. Personnel Location 3. Fire Ext. 4. Exit Route

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SECOND FLOOR

Denotes Fire Ext.

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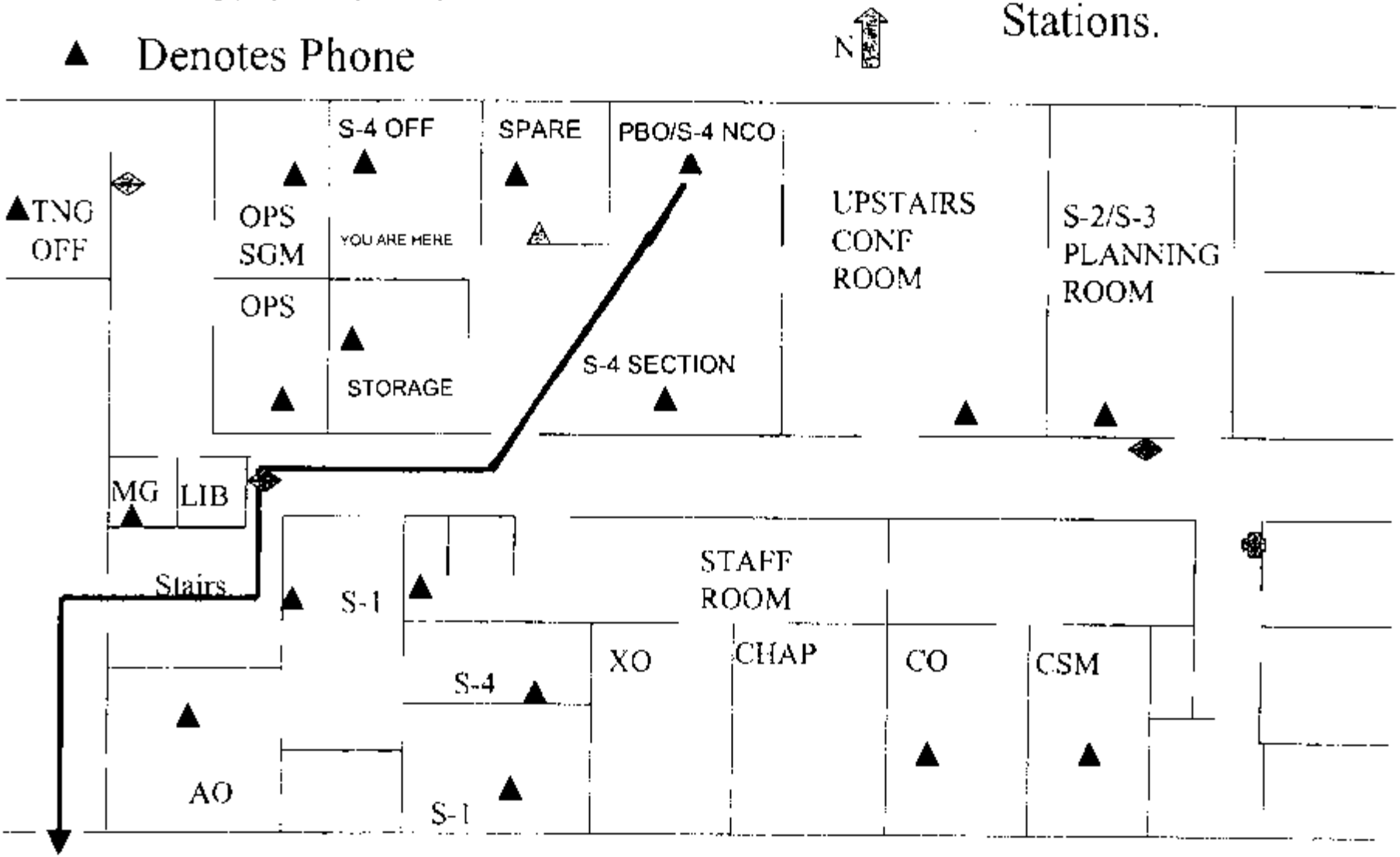
Denotes Fire Pull Stations.



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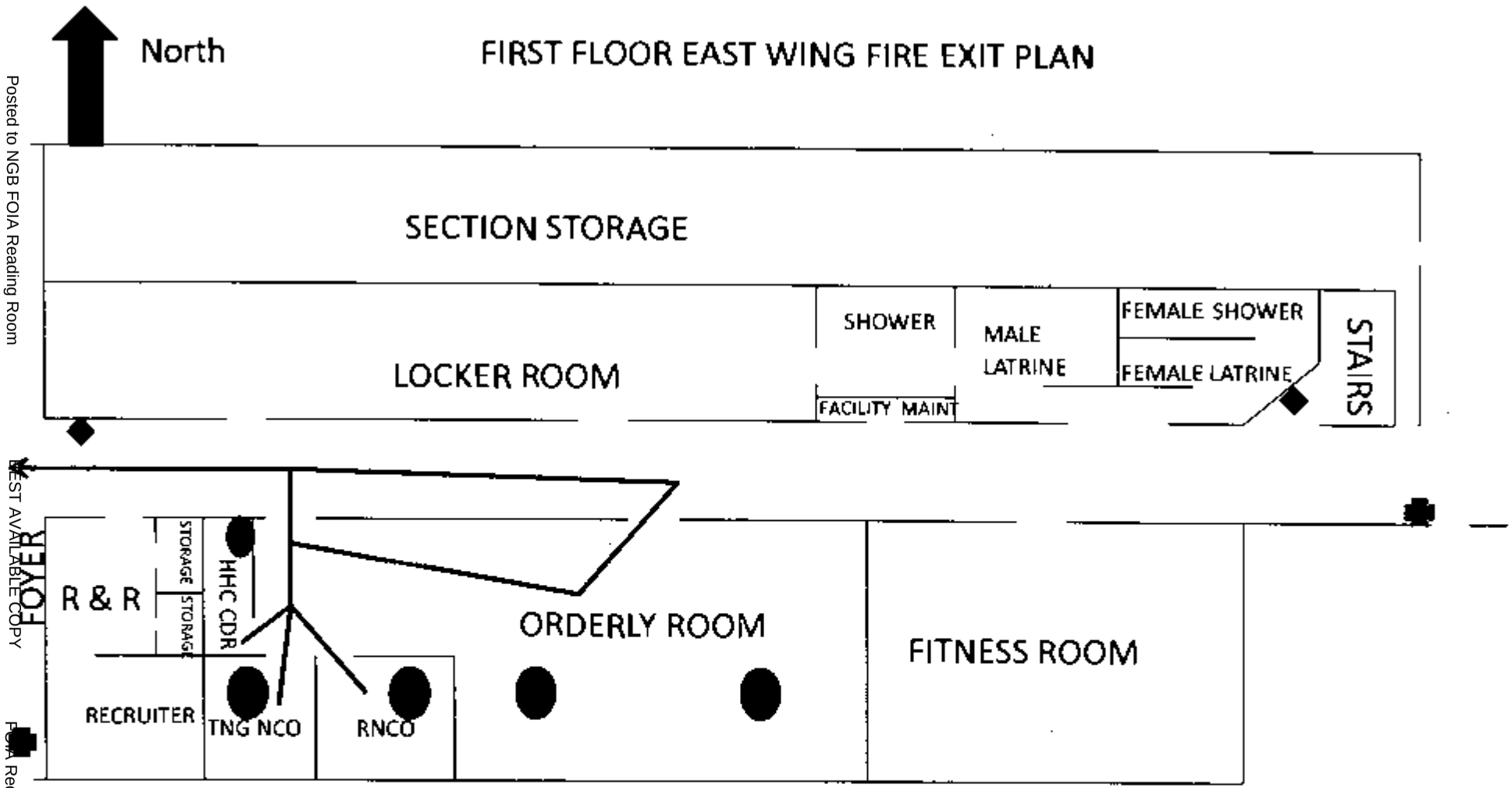
FIRST FLOOR EAST WING FIRE EXIT PLAN



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LEGEND

1.Pull Station 2. Personnel Location 3. Fire Ext. 4. Exit Route

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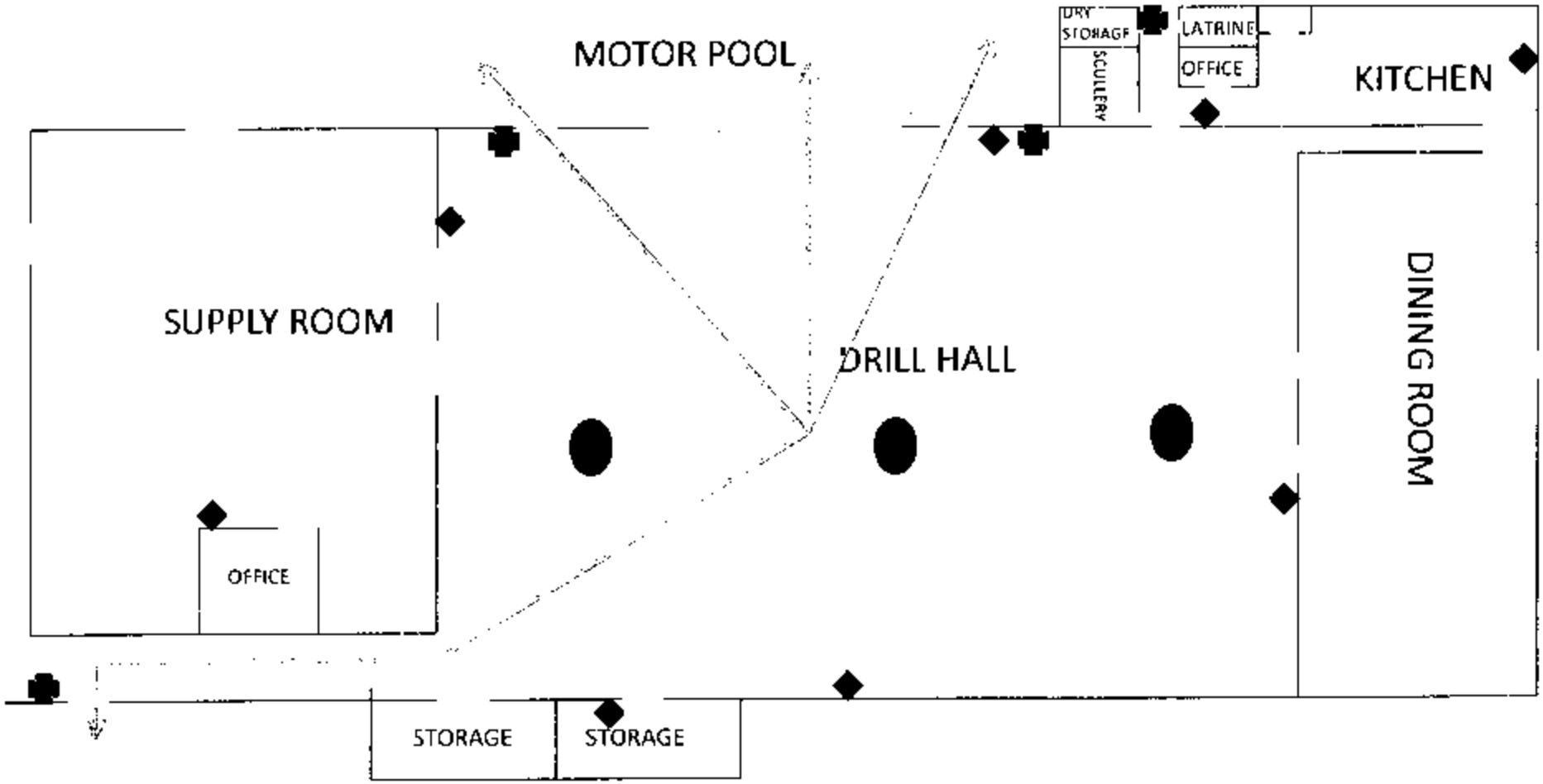
FIRST FLOOR EAST WING FIRE EXIT PLAN



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LEGEND

1.Pull Station ✚ 2. Personnel Location ● 3. Fire Ext. ◆ 4. Exit Route

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Hazardous Material Inventory

Enclosure No. 2

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB
LOCATION Senatobia, Ms. 38668

STORAGE AREA: Flammable Cabinet # 1

PAGE 1 OF 1 PAGES

INVENTORY DATE: 10/15/2010

MAT NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Glass Cleaner, Regular Type I	7930-01-326-8110	111-76-2						16oz	365	0.1	60	60	NA	--	--	--	
Wedge Furniture Polish	7930-01-381-3491							12oz	365	0.1	12	12	NA				
Nicell Antibacterial Polish Soap	8520-01-490-7370	141-43-5						12oz	365	0.1	12	24	NA	--	--	--	
Nicell Antibacterial Hand Sanitizer	8520-01-490-7358	64-17-5 67-63-0						6oz	365	0.1	24	24	NA	--	--	--	
Nicell Antibacterial Hand Sanitizer	8520-01-490-7365	141-43-5						12oz	365	0.1	12	12	NA				
Ecolo Hand Cleaner	8520-01-504-8867	13463-67-7						6oz	365	0	12	24	NA				
Nicell Antibacterial Polish Soap	8520-01-490-7367	141-43-5						gl	365	0.1	56	64	NA				
Parker Board Cleaner	6850-01-186-0859	111-76-2 9036-19-5 7601-54-9						12oz	365	0	24	0	NA				
Disinfectant, Detergent, General Purpose (Pine Oil)	6840-00-584-3129	8002-09-3 67-63-0 1310-73-2						gl	365	0.1	64	64	NA				

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HAZARDOU ATERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB
LOCATION Senatobia, Ms. 38668

STORAGE AREA: Flammable Cabinet
2

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INVENTORY DATE: 10/15/2010

MD NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TPF
namel, Yellow	8010-00-286-7758	123-86-4 7727-43-7 71011-25-1	x					16oz	365	0.1	3	0	NA				
erosol, Flat Yellow	8010-01-332-3745	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Red	8010-01-330-5259	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Flat Black	8010-01-331-6108	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Flat OD	8010-01-331-6113	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Orange	8010-00-958-8148	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Tan	8010-00-582-4743	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Gloss Tan	8010-01-331-6107	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
erosol, Gloss OD	8010-01-331-6111	1330-20-7 78-93-3 74-98-6	x					16oz	365	0.1	12	24	NA				
Complete For Sports (Johnson Tax)	7930-01-380-8387	9011-15-8 34590-94-8						5gl	365	0.1	70	70	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB
LOCATION Senatobia, Ms. 38668

STORAGE AREA: Flammable Cabinet # 2

INVENTORY DATE: 10/15/2010

CHEM NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT RECD	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
Bravo Extra HD Stripper	7930-01-380-8381	141-43-5 1344-09-8 1310-73-2						5gl	365	0.1	70	70	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB
LOCATION Senatobia, Ms. 38668

STORAGE AREA: Flammable Cabinet # 3

PAGE 1 OF 2 PAGES

INVENTORY DATE: 10/15/2010

MATERIAL NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT RECD	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
enatured Alcohol	6810-00-201-0906	64-17-5 67-56-1 374-33-6	X					16oz	365	0.1	18	0	NA	-	-	-	
opropyl Alcohol	6810-01-382-2904	67-63-0						1oz	365	0.1	1	0	NA	-	-	-	
Hub Glue Stic	8040-01-039-8132							12oz	365	0.1	1	1	NA	-	-	-	
poxi-Patch	8040-00-777-0631	25068-38-6 14567-73-8 12135-86-3	X					1oz	365	0.1	2	0	NA	-	-	-	
rb-E.be	9150-00-458-0075	64742-53-6						16oz	365	0.1	12	24	NA	-	-	-	
rez-Off	7930-01-383-7926	6834-92-0						16oz	365	0.1	12	24	NA	-	-	-	
ilicon Grease	6850-00-880-7816	63148-62-9 112945-52-5						16oz	365	0.1	2	2	NA				
ishwashing ompound	7930-00-880-4454	27176-87-0 9016-45-9						1gl	365	0.1	70	0	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB
LOCATION Senatobia, Ms. 38668

STORAGE AREA: Flammable Cabinet # 3

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INVENTORY DATE: 10/15/2010

CHEM NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CIRCLA RQ	TRI
CLE	9150-01-079-6124							4oz	365	0.1	4	4	0				
CLE	9150-01-054-6453							1pt	365	0.1	32	24	0				
CLE	9150-01-053-6688							gal	365	0.1	50	50	0				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
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HAZARDOUS MATERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB
LOCATION Senatobia, Ms. 38668

STORAGE AREA: Flammable Cabinet # 4

PAGE 1 OF 1 PAGES

INVENTORY DATE: 10/15/2010

CHEM NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	*EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	EHS TPQ	EHS RQ	CERCLA RQ	ER
rinal Kits	6840-01-451-9189							12oz	365	0.1	24	36	NA				
coaring Powder	7930-00-721-8592	25155-30-0 497-19-8 1317-65-3						21oz	365	0.1	24	24	NA				
efresh, GP eodorant	6840-00-721-6055							12oz	365	0.1	12	12	NA				
etergent, General urpose	7930-00-357-7386	111-76-2 64-02-0 127087-87-0						16oz	365	0	24	48	NA				
leach	6810-00-598-7316	7681-52-9 1310-73-2 7782-50-5						gl	365	0.1	56	64	NA				
/asp Freeze	6840-00-459-2443							16oz	365	0.1	18	12	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3
2 LBS=1 QT 1LB=1 PT

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HAZARDOUS ...TERIAL INVENTORY

FACILITY NAME HHC (-), 2-198 CAB STORAGE AREA: Gas Shed PAGE 1 OF 1 PAGES

LOCATION Senatobia, Ms. 38668

INVENTORY DATE: 10/15/2010

CHEMICAL NAME (FROM MSDS)	NSN	CAS NUMBER	HAZARD CATEGORY: FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVITY	IMMEDIATE HEALTH HAZARD (ACUTE)	DELAYED HEALTH HAZARD (CHRONIC)	SIZE CON	# DAYS ON SITE	*EST AVG DAILY AMT	* EST MAX AMT STORED	*ANL AMT REC'D	*ANL AMT SHIPPED (WASTE OR RECY)	DHS TPD	EHS RO	CIRCLA RO	TRI
Gasoline	80290-81-5	64742-47-8 64742-30-9 74-98-6	x			x	x	gl	365	0.5	37.2	74	NA	--	--	--	
Trans Fluid	9150-01-422-8750							qt	365	0.1	24	36	NA				
Engine Oil	9150-01-422-8750							gl	365	0.5	83	83	NA				
Cycle Engine Oil								qt	365	0.1	4	6	NA				

ALL AMOUNTS MUST BE EXPRESSED IN LBS

CONVERSIONS (# LBS PER GL) SOLVENTS-6.7 MOGAS-6.2 DIESEL-7.1 JP8-6.2 ALL OTHERS-8.3

2 LBS=1 QT 1LB=1 PT

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INSTRUMENTATION:

The following survey instrumentation was utilized to obtain noise, illumination or ventilation measurements. All equipment was used according to manufacturer/ manual recommendations. All equipment was calibrated prior to and after use.

Nomenclature	**Serial No.**
Extech Light Meter	L595339

Enclosure No. 3

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Full Time Personnel
Requested but not provided

Enclosure No. 4

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HHIM Sheets

Enclosure No. 5

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HHIMS **INDUSTRIAL HYGIENE SURVEY FORM**

ARLOC 28000 INSTALLATION MSARNG BLDG_____ ROOM____

LOCATION	OPERATION	SURVEY DATE	EVALUATOR	MACOM
MN	ADO	YR 11 / 08/09	KJS	NG

SUPERVISOR	ORGANIZATION	RAC
MAJ William Fox SFC Joseph Williamson – RNCO	Senatobia Armory 400 Scott St Senatobia, Mississippi 38668	3

PH NO.	COMMERICAL/DSN	FREQUENCY	# CIV #MIL	#CONTRACT # LOC
662-562-4494	x /	8 hrs/day	16 /	/

LAB HOODS	VAPOR/DEGREASERS	PAINTBOOTH	SANDBLASTING BOOTH	OPEN SURFACE
0		0	0	0

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED

PPE REQUIRED UTILIZED

GLOVES	R U	RESPIRATOR	R U	EYES/FACE	R U
ACID	__/__	AIRLINE	__/__	CHEM/SPLASH	__/__
COLD SURFACE	__/__	ABRASIVE BLASTING HOOD	__/__	FULL FACE SHIELD	__/__
HOT SURFACE	__/__	DISPOSABLE	__/__	CHEM/SAF IMPACT	x / x
NBC AGENTS	__/__	FULL FACE AIR PURFYING	__/__	SAFETY IMPACT	__/__
OIL	__/__	½ FACE AIR PURFYING	__/__	WELDING HELMET	__/__
SOLVENTS	__/__	POWERED AIR PURFYING	__/__	WELDING GOGGLES	__/__
SURGICAL GLOVES	__/__	¾ FACE AIR PURIFYING	__/__	LASER EYE PROTECT	__/__
OTHER_____	__/__	SCBA	__/__	OTHER_____	__/__

EARS/ HEARING	R U	BODY	R U	HEAD AND FEET	R U
CANAL CAPS	__/__	APRONS	__/__	COLD WEATHER BT&HAT	__/__
>85-108 STDY EPLG	x / x	COLD WEATHER CL	__/__	HARD HAT	__/__
" *HLMT/PLG	__/__	COVERALLS	__/__	IMPERMEABLE BOOTS	__/__
" " MUFF ONLY	__/__	FULL BODY SUIT	__/__	SAFETY SHOE CONDUCT	__/__
108-118 MUFF/PLG	__/__	HEAT REFLECTIVE	__/__	SAFETY NON CONDUCT	x / x
118 OR> MUFF/PLG	__/__	VEST/SUIT	__/__	OTHER _____	__/__
W/ TIME LIMIT		SAFETY BELT/ HARNESS	__/__		
OTHER_____	__/__	SPECIAL PURPOSE CLO	__/__	OTHER BDU	x / x

	CAS CODE	PAC	EPC	HAZARD DESCRIPTION
PONOISECO	POeyestresx	3	0	Eye stress
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMMHAZ				
POLIFTING				
POSHARPOBJE				
POELSHOCK				
COLUBEOIL				

DESCRIBED OPERATION

Administrative duties performed. Phone answering, processing/generating, filing/tracking paperwork.

PERSONNEL LIST ATTACHED

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

16 May 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: S[redacted], Supervisor Starkville Armory, Hwy 12 and Industrial Park Dr, Starkville, MS 39759.

Thru [redacted], DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Starkville Armory, Starkville, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG Starkville Armory, Starkville, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

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16 May 2011

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Starkville Armory, Starkville, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2011. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2012 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]

CF: Non-Responsive [redacted] tate Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..
[redacted] e Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL.
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Starkville Armory
Hwy 12 and Industrial Park Dr
Starkville, MS 39759

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] IH PE
Tammer Sciences, Inc.

May 9, 2011

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- Site Description
- Scope of Work
- Methodology

Findings & Discussion

- Lead Wipe Samples ..... Page 3
- Asbestos Suspect Building Material ..... Page 3
- Noise Survey ..... Page 4
- Illumination Survey ..... Page 4
- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
- Recommendations ..... Page 5

Appendices

A. Floor Layout and Illumination Measurements.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. Photographs.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Starkville Armory on 22 February 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, where necessary, conducting an illumination survey, a noise survey, where excessive noise sources are identified, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 to 22 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No excessive noise levels were identified.	No action.
Illumination Survey	Average readings ranged from 15 to 84 footcandles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room. Employees expressed concern about odors from the Latrines.	Consider replacing the wood with metal. Ensure that the exhaust fans are operational.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Starkville Armory in Starkville, Mississippi on 22 February 2011

BACKGROUND:

Introduction. At the request of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Starkville Armory in Starkville, Mississippi. Non-Responsive, Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 22 February 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1969 and subsequently renovated in 1994, houses the Headquarters for the 2-114 Field Artillery. Fourteen full time employees work at this armory. The building is a two-story structure, which consists of an administrative office area, a kitchen, a drill hall, a supply room, a library, and a conference room on the first floor. The second floor consisted of three classrooms. This armory does not have an indoor firing range. Copies of the floor layout are included in Appendix A. Photos are included in Appendix E.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Where the presence of asbestos was suspect, bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was intended to be minimally destructive and samples were collected from inconspicuous areas. Each collected sample, if collected, was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Larson Davis Model Spark 706RC noise level meter was used to collect area noise readings. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted].

Lead Wipe Samples: Ten wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
SV01	Drill hall floor south west corner.	<20
SV02	Drill hall floor south east corner.	<20
SV03	Top of soda machine in drill hall.	20
SV04	Drill hall floor north west corner.	<20
SV05	Drill hall floor north east corner by medical.	<20
SV06	Top of fridge in kitchen.	<20
SV07	Top of fire extinguisher case in classroom second floor.	<20
SV08	Top of shelves in learning center office	<20
SV09	Wall surface in classroom	<20
SV10	Field blank	<20

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: No suspect building material types were identified in the Armory as potentially containing asbestos.

Noise Survey Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were collected. Noise levels are likely to be well below the Occupational Safety and Health

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Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 4 foot-candles to 167 foot-candles. Specific readings were as follows:

Area	Lighting Readings in Foot Candles		
	Min	Average	Max
Orderly Room	15	64	98
R&R Office	32	79	118
Readiness NCO Office	30	59	168
Classroom	36	57	68
Library	33	79	167
Operations SGT Office	21	77	143
S-3 Shop	7	42	94
S-3 Office	26	52	75
S-4 Office	20	84	127
Battalion Commander's Office	53	68	83
Commander's Conference Room	32	65	81
Staff Conference Room	12	39	58
Supply Room	6	16	32
Vault	7	15	20
Drill hall	4	15	24
Weight Room	9	23	35
Classroom B second Floor	21	65	126
Classroom C second Floor	13	84	96
Classroom D second Floor	44	67	82

All readings except for the S-3 shop and the conference room are within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will

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FOIA Requested Record #J-15-0085 (MS)
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increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 12 forced air units located three mechanical rooms, two located on the first floor and one on the second. The system is capable to deliver outside makeup air to the occupied spaces. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure. No complaints of indoor air quality issues were documented or communicated with the POC. However, occupants expressed about odors from the Latrine. Upon inspection, it appears that the exhaust fans were not operational.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room and repair the exhaust fans in the latrines.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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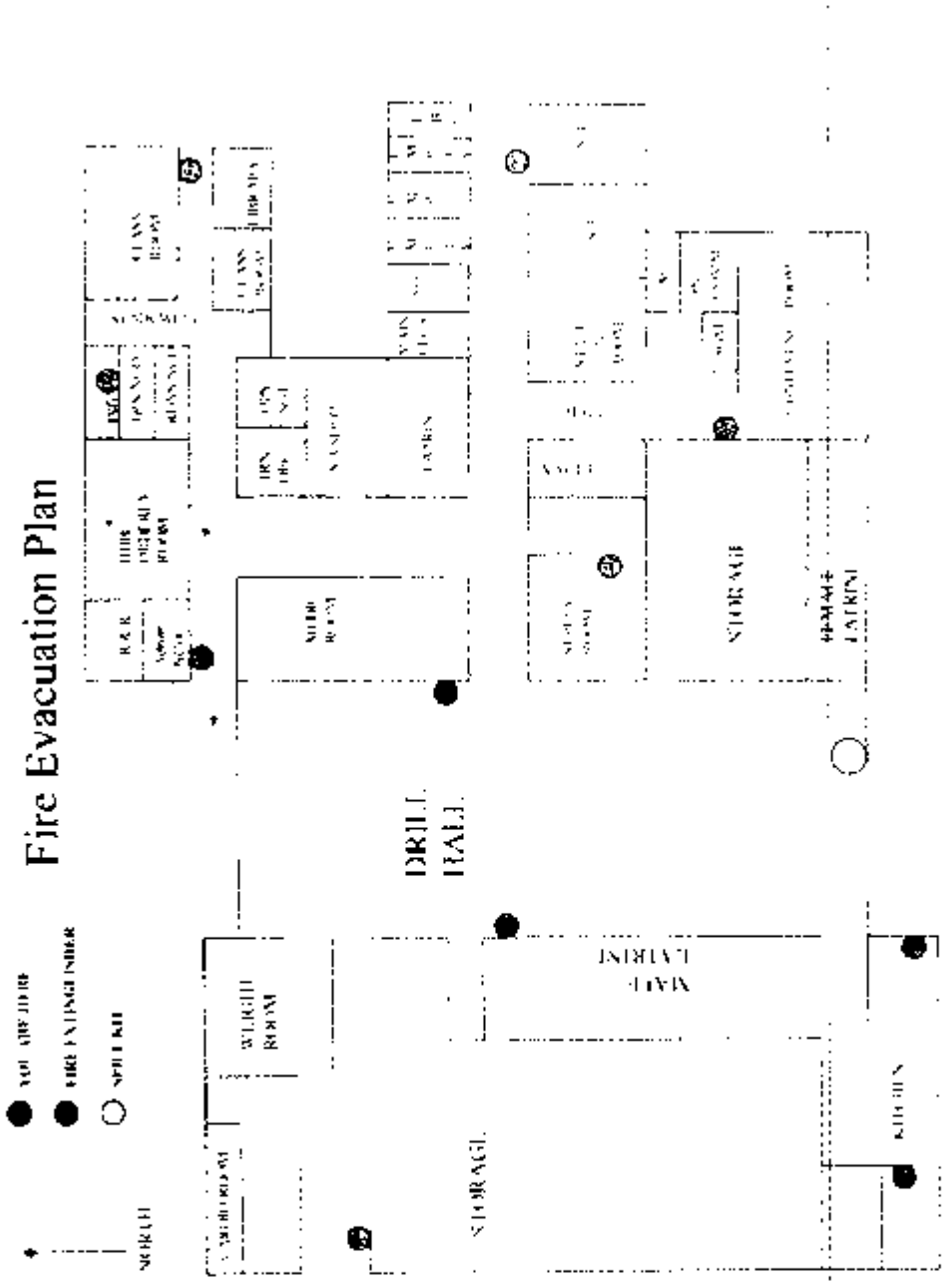
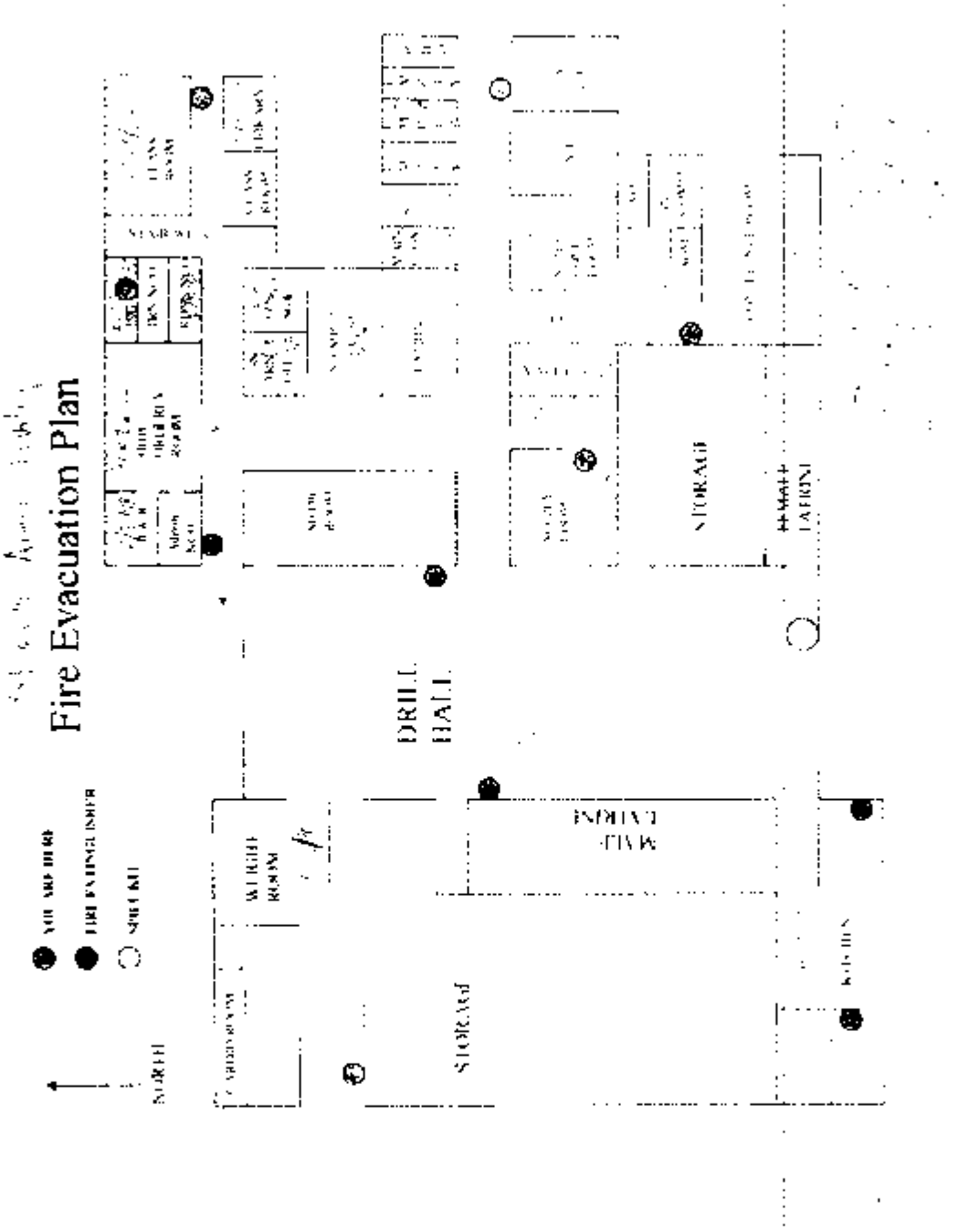
Fire Evacuation Plan




Fire Evacuation Plan
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APPENDIX B

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May, 2018

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 11, 2011
Non-Responsive [redacted] Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: MSARNG Armories

Dear Non-Responsive [redacted] Order No: 1103436

Analytical Environmental Services, Inc. received 62 samples on 3/4/2011 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive [redacted]

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Analytical Environmental Services, Inc.

[illegible]

LEAD ON WIPES (N9100/7082)
N 7082

CLIENT:	[illegible]	**Lab Order:**	[illegible]
Project:	NISA/[illegible]	**Date Received:**	[illegible]
Delivery Order:		**Matrix:**	Wipe
PO No:			

Laboratory ID	Client Sample ID	Results	Units	Reporting Limit	DF	Date Collected	Date Analyzed	Analyst
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Qualifiers: [illegible]

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May, 2018

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Analytical Environmental Services, Inc.

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: [illegible]
Project: [illegible]
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: [illegible]

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
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Check Date: [illegible]

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APPENDIX C

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway · Atlanta GA 30340-3704
TEL (770) 457-8177 · TOLL-FREE (800) 932-4889 · FAX (770) 457-8188

CHAIN OF CUSTODY

Work Order: 11 3436

Date: 2/24/2011 Page 1 of 1

COMPANY: [redacted]
Attn: [redacted]

ADDRESS: [redacted]

ANALYSIS REQUESTED: Ethanol, Methanol, Total Glycols, Lactol

PRESERVATIVE(s) (ice)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	DATE	TIME	Field	Composite	Date Received	Ethanol	Methanol	Total Glycols	Lactol	REMARKS
1	MW	2/21	day			Mbbd	✓	✓			
2	WFB — Mark	2/21	PM			Wright					
3	PM01	2/22	day			Brook			✓		
4	CS01 → CS11	2/23/11	AM			Sylvia				✓	
5	LV01 → LV10	2/21/11	PM			Cyd				✓	
6	AK01 → AK09	2/22/11	AM							✓	
7	EP01 → EP09	2/22/11	PM							✓	
8	WP01 → WP10	2/21/11	AM							✓	
9	SV01 → SV10	2/22/11	PM							✓	
10											
11											
12											
13											
14											

RELINQUISHED BY: [redacted] DATE/TIME: [redacted]

RECEIVED BY: [redacted] DATE/TIME: [redacted]

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: DHL / FEDEX / UPS / AIRBORNE / GREYHOUND / OTHER

PROJECT INFORMATION

PROJECT NAME: MSALNG Analysis

PROJECT #:

SITE ADDRESS:

[redacted]

INVOICE

Invoice to Accounts

- Standard Turnaround Reports
- Standard Electronic Data
- Electronic Data Only
- Spreadsheet Data Only
- Same Day Electronic Data
- Other

SAMPLES RECEIVED AFTER 4PM OR ON SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NOT ELSE IS MARKED ON COC AS WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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May, 2018

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form — Front Page

ARLOC: 4 7 0 0 0 0

Installation: [redacted] Arsenal

Building: M A I N

Room Number:

Location | Operation | Survey Date | Month | day: 1

Evaluator -HNUS: K H K

Macom: N G

Submacom: X X

Unit / Organization (45): HQ 2-114 Field Artillery

RAC:

[redacted] Non-Responsive

DSN: [redacted] Commercial: [redacted]

Frequency (hrs/da): 1

No. CIVs | No. MIL: 1 4 | Contractors: 0 0 | No. LOCs

Ventilation Units

Controls Present (1-8, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit Code

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
cham/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs	X	X	
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safet(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

HHIMS Industrial Hygiene Survey Form — Back Page

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	CAS code	PAC	EPC	Hazard Description
PONOISECO	7 4 3 9 - 9 2 - 1			Lead Dust
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBECIL				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters	MI	Sex	Category

[x] Personnel data provided by the facility is attached to this form

Comments Remember to comment on problems, recommendations, and needed control items

Operation described is

Small arms clean up in drill hall Surface wipe samples were collected fro various areas of the Armory

Refer to the report for the results

[ ] (comments continued on attached

This operation was explained to the evaluators, but was not actually observed

There is a noise data sheet attached to this form

This is a ventilation data sheet attached to this form

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May, 2018

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APPENDIX E

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FOIA Requested Record #J-15-0085 (MS)
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Photo #1: Front entrance to Starkville Armory.

Photo #2: Drill hall.

Photo #3: Storage area

Photo #4: Kitchen.

Photo #5: Classroom D second floor.

Photo #6: Mechanical room showing the two furnace units serving the second floor.

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May, 2018

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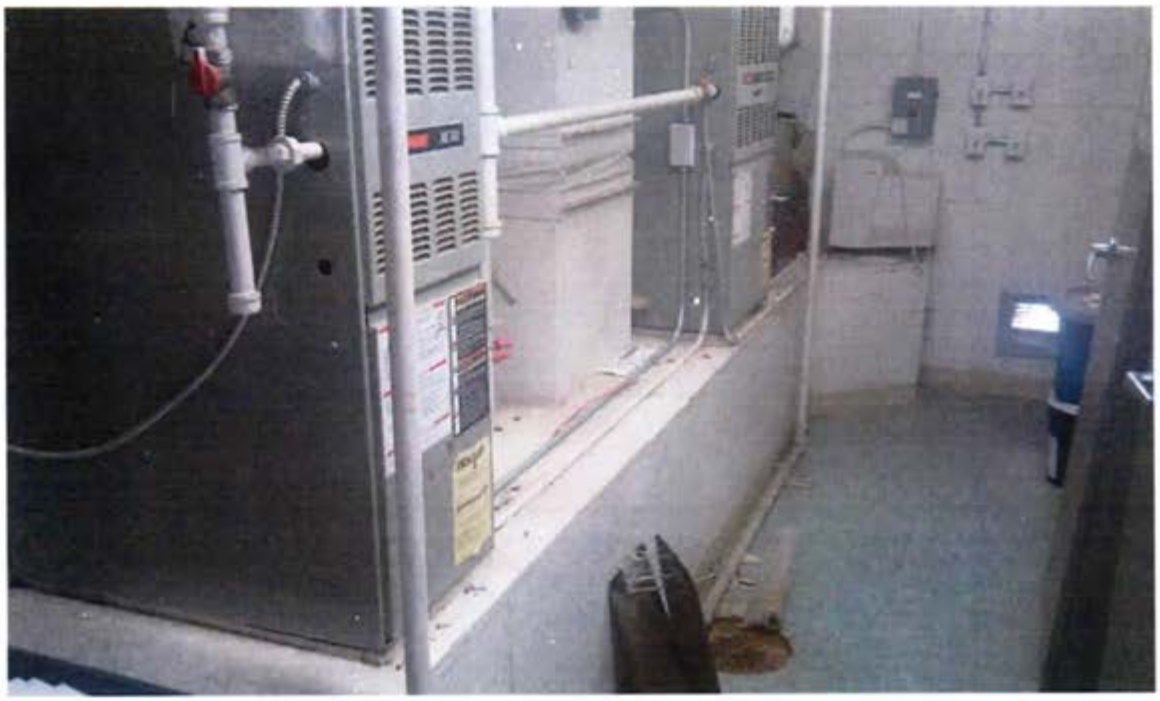

Photo #7: Two other furnace units showing the wood constructed common return air plenum.

Photo #8: Outside the Armory facing west.

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Photo #9: Outside the Armory showing the east side.

Photo #10: Storage cages.

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) February 22, 2012

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted], MS ARNG Tupelo Armory, 104 Lemons Drive, Tupelo, MS 38663

Thru: Non-Responsive [redacted] DS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Tupelo Armory, Tupelo, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Tupelo Armory, Tupelo, Mississippi.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling

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method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

   a. Have all HHIM data entered into the HHIM computer module.

   b. Use the report to help in correcting all deficiencies noted.

   c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

   d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

   e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive Non-Responsive Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive Non-Responsive

Regional Industrial Hygienist

CF:

Non-Responsive nager, 1410 Riverside DR, Jackson, MS 39202.

l Health Nurse, 2497 N. West Street, Jackson, MS 39216.

CFMO MS ARNG, 2497 N. West Street, Jackson, MS 39216.

ENCL.

as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Tupelo Armory
104 Lemons Drive
Tupelo, MS 38663

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] CIH
Tammer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564

January 30, 2012

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- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
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A. Floor Layout.
B. Photographs.
C. Laboratory Analytical Results and Chain of Custody.
D. Lighting Survey

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Tupelo Armory on 15 November 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, as necessary, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 to 270 microgram per square foot.	Clean the top of the electrical panel in the converted IFR in accordance to procedures provided.
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No Noise sources were found.	No action.
Illumination Survey	10 to >200 footcandles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room. Water leaks and damage was observed in the various parts of the Armory.	Consider replacing the wood with metal. Ensure that all water leaks are repaired and building damaged materials are replaced.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Tupelo Armory in Tupelo, Mississippi on 15 November 2011.

BACKGROUND:

Introduction. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Tupelo Armory in Tupelo, Mississippi. Non-Responsive Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive CIH, PE, representing the South Regional Industrial Hygiene Office conducted the survey on November 15, 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1970, houses the Aviation Battalion Headquarter as well as the 155th Infantry Brigade HQ. A new addition to the armory structure was added in 1989 for the Aviation unit. The facility consists of two connecting buildings through the drill hall. Both buildings have a second story section. The facility has one drill hall, a kitchen, classrooms, offices, supply rooms, storage rooms and a converted IFR. A copy of the floor layout is included in Appendix A. Photos are included in Appendix C.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Larson Davis Spark Sound Level Meter Model 706RC Serial Number 17274, with a calibration date of October 19, 2010. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted]

Lead Wipe Samples: Eleven wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
TAW01	Converted IFR floor by trap area	83
TAW02	Converted IFR floor midrange	24
TAW03	Converted IFR floor by firing line	25
TAW04	Top of the electrical panel by the firing line	270
TAW05	Back wall by trap	<20
TAW06	Drill Hall floor middle	<20
TAW07	Drill hall floor by solvent cleaning sink	24
TAW08	Drill hall floor southwest	<20
TAW09	Drill hall floor northeast	32
TAW10	Drill hall floor southeast	<20
TAW11	Top of cabinet in Admin office	<20
TAW12	Top of filing cabinet in aviation office 2nd floor	<20
TAW13	Blank	<20

Sampling results show that only one sample which was collected from the top of the electrical panel in the converted IFR contained lead levels above the recommended limit of 200 micrograms per square foot. Sampling results for the remainder of the Armory were below the recommended limit. This surface should be cleaned in accordance to provided cleaning procedures. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B.

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Asbestos Suspect Building Material: No suspect building materials were identified as potentially containing asbestos.

Noise Survey: Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were collected. Noise levels are likely to be well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels were collected throughout the armory and recorded on the floor layout attached in Appendix C. Some readings are listed belowSpecific readings were as follows:

Area	Average/Max/Min Foot candles
Joint operation office	30/70/5
Readiness Office	50/70/3
S4 Supply office	12/41/7
Classroom	31/71/9
S3 Operations	45/104/6
Drill Hall	28/61/2
AVN Commander Office	31/69/7
Supply Area 2	90 – 100
Storage	7/11/2
Orderly Room	27/50/7
S1 Medical Office Kitchen	74/100/37

Not all readings were the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels. Some light bulbs in the Kitchen were out.

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Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of three air handling units of which two units serve the aviation side of the armory and one serves the family readiness area. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure.

In addition to these units, some offices have individual wall units and a rooftop unit. There are several areas in the armory showing signs of water leaks and personnel in the readiness unit expressed concern about previously occurring water leaks. In addition, the building had a history of roof leaks that was recently repaired. Indoor air quality issues were expressed by some employees.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room and repair all water leaks in the armory.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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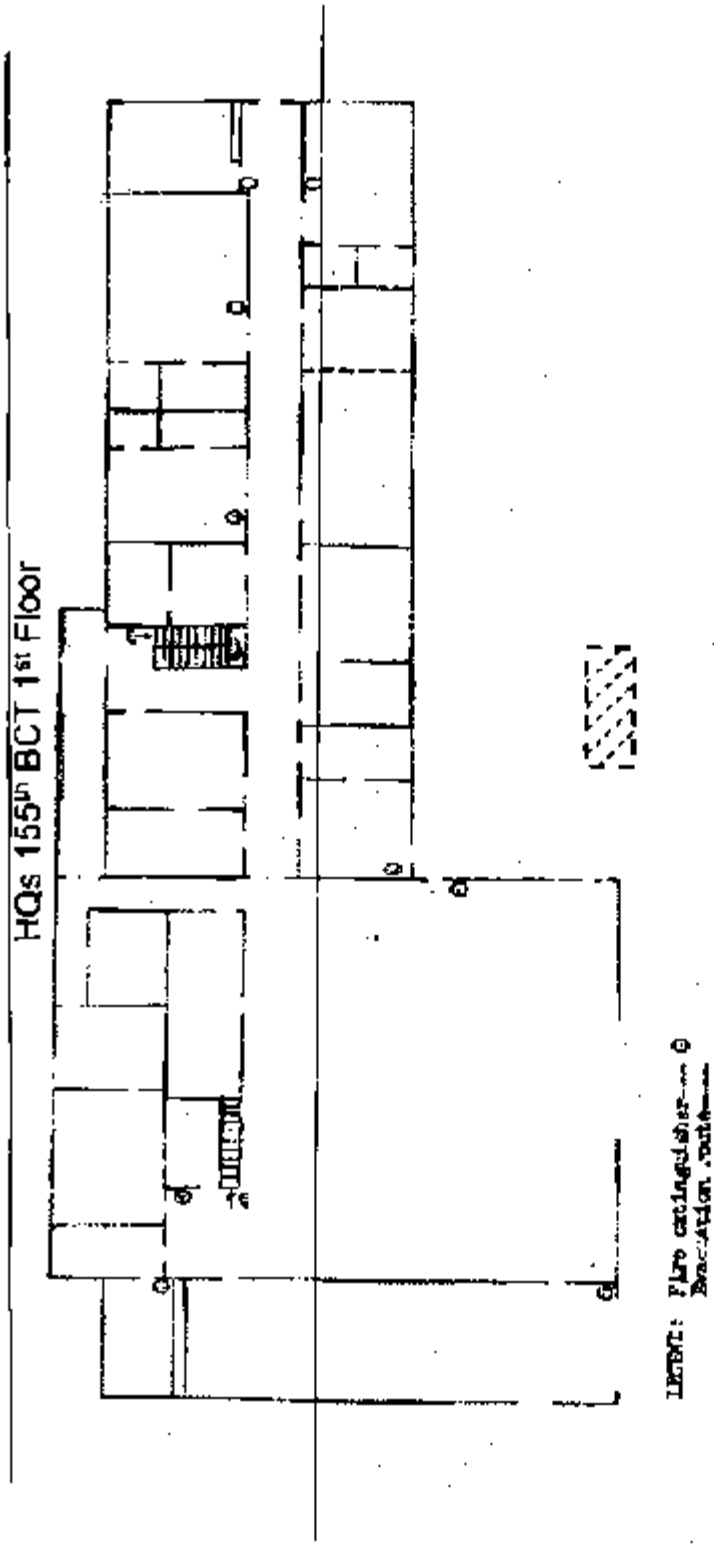
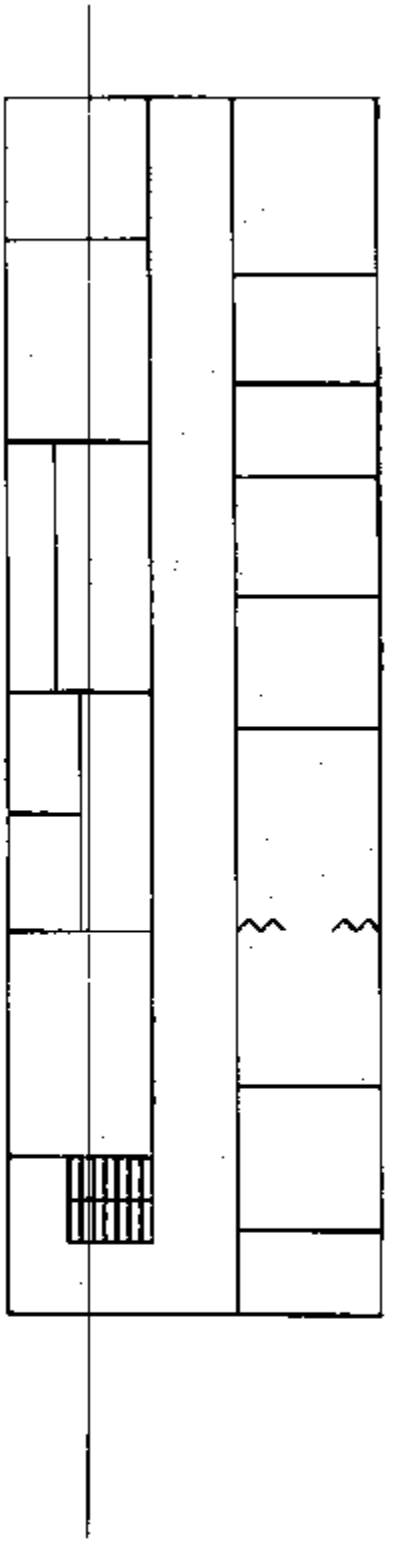


FIRE EVACUATION PLAN

HQs 155th BCT 2nd Floor



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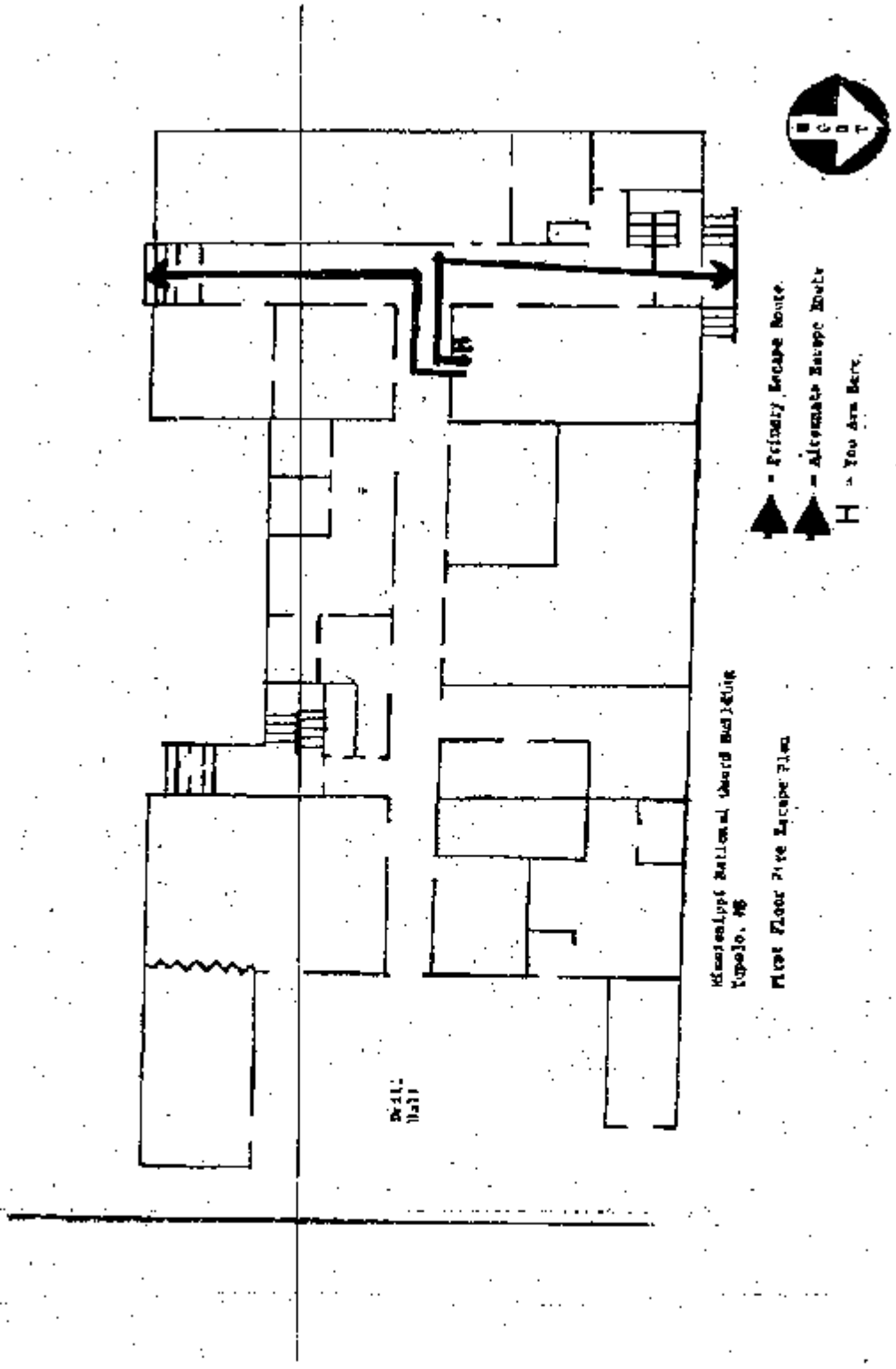

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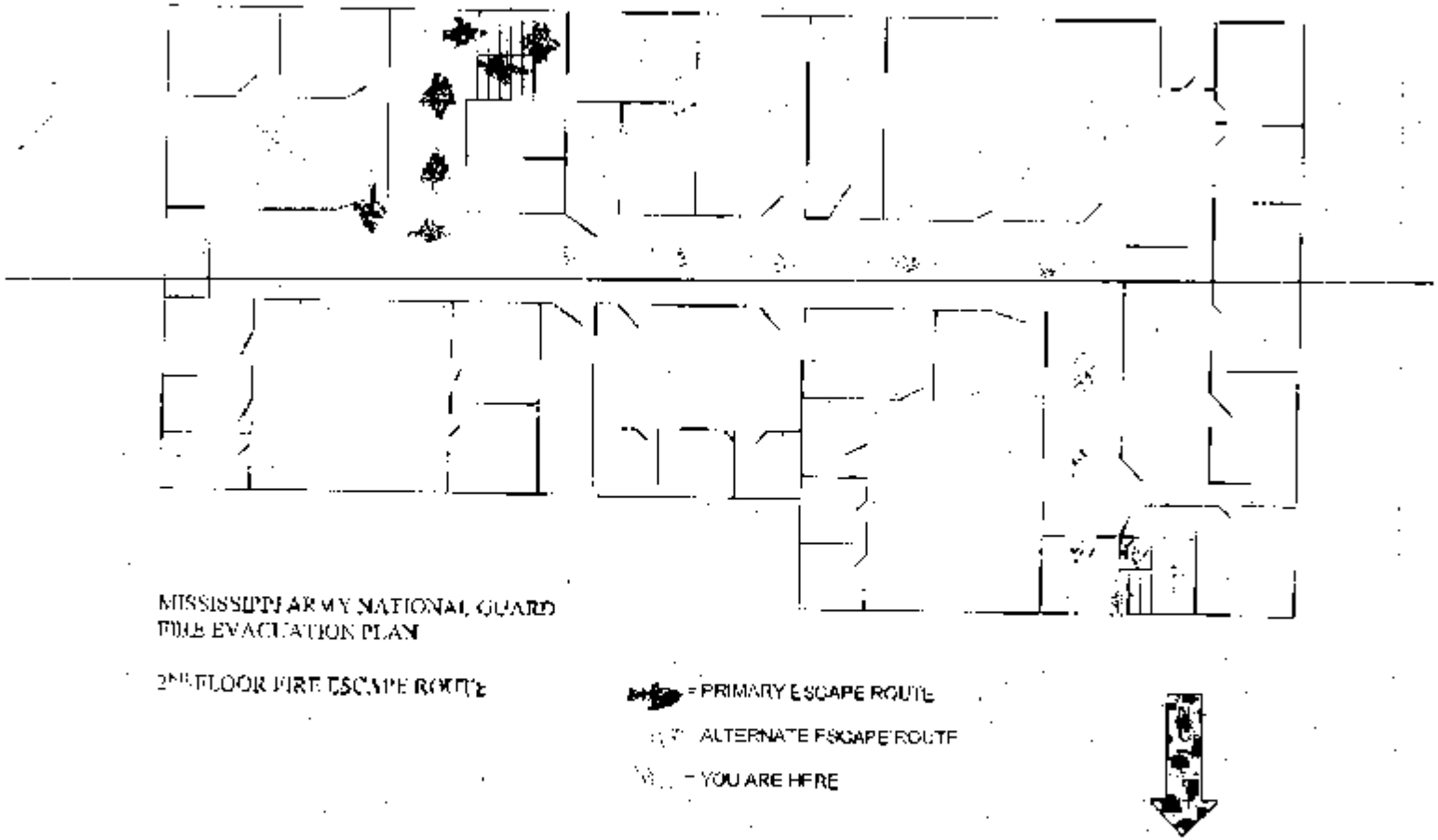

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APPENDIX B

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Photo #1: Tupelo Armory Front Entrance.

Photo #2: South ide of the armory showing the new aviation addition.

Photo #3: South East View of the Armory.

Photo #4: East side of the Armory.

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Photo #5: Drill hall facing east.

Photo #6: Drill hall facing the entrance to the aviation section.

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Photo #7: Classroom.

Photo #8: Distant Learning Center.

Photo #9: Converted Indoor Firing Range (IFR).

Photo #10: Converted IFR facing the firing line.

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Photo #11: Air handling unit – note the wood plenum under the unit.

Photo #12: Evidence of water leaks in the readiness office.

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Photo #13: Evidence of water leaks in the utility closet.

Photo #14: Air handler unit showing the clutter and wood return plenum.

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APPENDIX C

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 07, 2011
Non-Responsive [redacted] Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: AASF#2 Tupelo & Tupelo Armory

Dear Non-Responsive [redacted]

Order No: 1111H10

Analytical Environmental Services, Inc. received 38samples on 11/21/2011 2:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive [redacted]

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1111 H40

Date: 11/16/11 Page 1 of 1

COMPANY: Tetra Tech, Inc.

ADDRESS: 3744 Lawrence Drive, Naperville, IL 60564

[redacted]

ANALYSIS REQUESTED / PRESERVATION (list codes): Lead, Cadmium, Chromium, Copper, Iron, Manganese, Nickel, Zinc, Total Phosphorus, Total Compounds

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (list codes)	Lead	Cadmium	Chromium	Copper	Iron	Manganese	Nickel	Zinc					Total Phosphorus	Total Compounds	REMARKS	# of Containers
1	TAW01 — TAW013	11/15/11	AM			SW	✓															
2	W01 — W015	11/16/11	PM			SW	✓	✓	✓	✓	✓	✓	✓	✓								
3																						
4	P01	11/16/11				A	✓	✓	✓	✓	✓	✓	✓	✓					✓		Matchback Weight File	
5	P02																		✓			
6	P03																		✓			
7	P04																		✓			
8	P05						✓	✓	✓	✓	✓	✓	✓	✓					✓			
9																						
10	S01	11/16/11				A														✓		
11	S02																			✓		
12	S03																			✓		
13	S04																			✓		
14	S05																			✓		

RELINQUISHED BY: [redacted] DATE/TIME: 11/18/11 PM

RECEIVED BY: 1 [illegible] DATE/TIME: 11/21/11 14:00

PROJECT INFORMATION: PROJECT NAME: AASI #2 Tyrolb & T pelo Armory

[redacted]

Non-Responsive

RECEIPT: Total # of Containers

Turnaround Time Request: Standard 5 Business Days; 2 Business Day Rush; Next Business Day Rush; Same Day Rush (with req.); Other

STATE PROGRAM(if any): E-mail? Y / N Fax? Y / N

DATA PACKAGE: I II III IV

TAT:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: OUT: / / VIA: IN: / / FROM: CLIENT FedEx UPS [illegible] COURIER CONSULTANT OTHER

SAMPLES RECEIVED AFTER 5PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid 1 ice I = Ice only N = Nitric acid S = Sulfuric acid 1 ice SM01 = Sodium thiosulfate/Ascorbic acid + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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Analytical Environmental Services, Inc

Date: 2-Dec-11

Client	National Guard Bureau Region-South DL
Project	AASF#2 Tupelo & Tupelo Armory
Lab ID:	1111310

Case Narrative

Zinc could not be reported for wipe samples. Per Kai Kaster via email 11.23.2011 11:36am, the laboratory proceeded with analysis without zinc for the wipe samples

Metals Analysis by Method 6010B

LCS-154426 recovery for Fe was outside control limits biased low. Samples were not reprepped reanalyzed due to insufficient sample volume. The LCSD was within limits

Per Kai Kaster via email 11.30.2011 12:34pm, air volumes were as follows

Samples	Liters
P01	1194
P02	1191
P03	1195
P04	1119
S01	63
S02	46
S03	40
S04	39

Per Kai Kaster via email 11.30.2011 6:44pm, samples P05 and S05 are blanks

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Analytical Environmental Services, Inc

Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	Client Sample ID:	TAW01
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-001	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9103/N7082)					(N7082M)			
Lead	83	20		ug, Total	154627	1	11/28/2011 15:40	TA

Qualifiers

*	Value exceeds maximum contaminant level	B	Enhanced (value above appropriate range)
BRL	Below reporting limit	S	Spike Recovery outside lower due to matrix
M	Holding time for preparation or analysis exceeded	Non	Not Confirmed
N	Analyte not NELAC certified	NC	Not confirmed
R	Analyte detected in the associated analyst blank	[illegible]	Less than detail value
[illegible]	Greater than detail value	[illegible]	Enhanced value detected below Reporting Limit

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Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	**Client Sample ID:**	TAW02
Project Name:	AASF#2 Tupelo & Tupelo Armory	**Collection Date:**	11/15/2011
Lab ID:	1111H10-002	**Matrix:**	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082M)			
Lead	24	20		ug, Total	134627	1	11/28/2011 15:41	TA

Qualifiers:
- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding time for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- V Uncertain data Result value
- D Concentrated (value shows quantitation range)
- S Spike Recovery outside limits due to matrix
- Non Non-conformed
- NL Not confirmed
- \- Less than Result value
- * Estimated value detected below Reporting Limit

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Analytical Environmental Services, Inc

Date: 2-Dec-11

Client	National Guard Bureau Region-South IH	Client Sample ID:	TAW03
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-003	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082M)			
Lead	21	20		ug, Total	154627	1	11/28/2011 15:43	TA

Qualifiers:

*	Value exceeds maximum contaminant level	>	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Not	See note narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
+	Greater than Result value	?	Estimated value detected below Reporting Limit

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Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	Client Sample ID:	TAW04
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111N10-004	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082M)			
Lead	270	20		ug Total	154627	1	11/28/2011 15:44	TA

Qualifiers:

- * Value exceeds maximum contaminant level
- MEL Below reporting level
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- J Greater than Result value
- E Estimated value above quantitation range
- S Spike Recovery exceeds limits due to matrix
- Non Non-Lead contaminant
- NL Non-Lead contaminant
- L Less than Result value
- J Estimated value between Reporting Limit

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Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	**Client Sample ID:**	TAW05
Project Name:	AASF#2 Tupelo & Tupelo Armory	**Collection Date:**	11/15/2011
Lab ID:	1111H10-005	**Matrix:**	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082M)			
Lead	BRL	20		ug Total	174627	1	11/28/2011 15:46	TA

Qualifiers:
- * Value exceeds regulatory environmental level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- [illegible] Greater than Result value
- [illegible] Estimated (value above quantitation range)
- [illegible] Spike Recovery outside limits due to matrix
- Non Sea case narrative
- NR Not performed
- [illegible] Less than Result value
- [illegible] Estimated value detected below Reporting Limit

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Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	**Client Sample ID:**	TAW06
Project Name:	AASF#2 Tupelo & Tupelo Armory	**Collection Date:**	11-15-2011
Lab ID:	1111H10-006	**Matrix:**	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7081)					(N7081M)			
Lead	BRL	20		ug/Tons	154627	1	11-28-2011 15:47	TA

Qualifiers:

- [illegible] Value exceeds maximum contaminant level.
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- [illegible] Analyte detected in the associated method blank
- [illegible] Greater than batch value
- [illegible] Estimated value above quantitation range
- [illegible] Spike recovery exceeds [illegible]
- [illegible] Not [illegible]
- [illegible] Not [illegible]
- [illegible] Less than batch value
- [illegible] Estimated value detected below reporting limit

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C-10

Analytical Environmental Services, Inc

Date: 2-Dec-11

Client:	National Guard Bureau Region-South III	Client Sample ID:	TAW07
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-007	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9208/N7082)					(N7082M)			
Lead	24	20		ug Total	154627	1	11/28/2011 14:04	TA

Qualifiers:

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

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C-11

Analytical Environmental Services, Inc

Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	Client Sample ID:	TAW08
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-008	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082AI)			
Lead	BRL	20		ug/Total	114627	3	12/28/2011 16:06	TA

Qualifiers

- [illegible]
- BRL [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region South DI	Client Sample ID:	TAW09
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111010-209	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082A)D			
Lead	32	20		ug/Total	72462*	1	11/28/2011 11:00	TA

Qualifiers: [illegible]

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Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	**Client Sample ID:**	TAW010
Project Name:	AASF#2 Tupelo & Tupelo Armory	**Collection Date:**	11 15 2011
Lab ID:	1111H10-010	**Matrix:**	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N0100/N7082)					(N7082M)			
Lead	BRL	20		ug, Total	154627	1	11/28/2011 16:10	TA

Qualifiers:

- * Value exceeds maximum confirmation level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- * Greater than Result value
- J Estimated value above quantitation range
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

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Analytical Environmental Services, Inc Date: 3-Dec-11

Client:	National Guard Bureau Region-South IH	Client Sample ID:	TAW011
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-011	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7083M)			
Lead	BRL	20		ug/Total	134627	1	11/28/2011 16:41	TA

Qualifiers: [illegible]

Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region-South IH	Client Sample ID:	TAW012
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-012	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N0100/N7082)					(N7082M)			
Lead	BRL	20		sq. Total	154627	1	11/28/2011 16:13	TA

Qualifiers:
- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- * Greater than Result value
- S Est. matrix (value above quantitation range)
- R Spike Recovery outside limits due to matrix
- Non Sec. cons. survivors
- NL Not confirmed
- * Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc Date: 2-Dec-11

Client:	National Guard Bureau Region South IH	Client Sample ID:	TAW013
Project Name:	AASF#2 Tupelo & Tupelo Armory	Collection Date:	11/15/2011
Lab ID:	1111H10-013	Matrix:	Wipe

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
LEAD ON WIPES (N9100/N7082)					(N7082AJ)			
Lead	BRL	20		sq. Total	154627	1	11/28/2011 18:14	TA

Qualifiers:
- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- Y Detection Limit Result value
- E Estimated value above quantitation range
- S Spike discovery outside limits due to matrix
- Non Non-conformance
- NC Not confirmed
- Less than Result value
- Estimated value detected below Reporting Limit

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APPENDIX D

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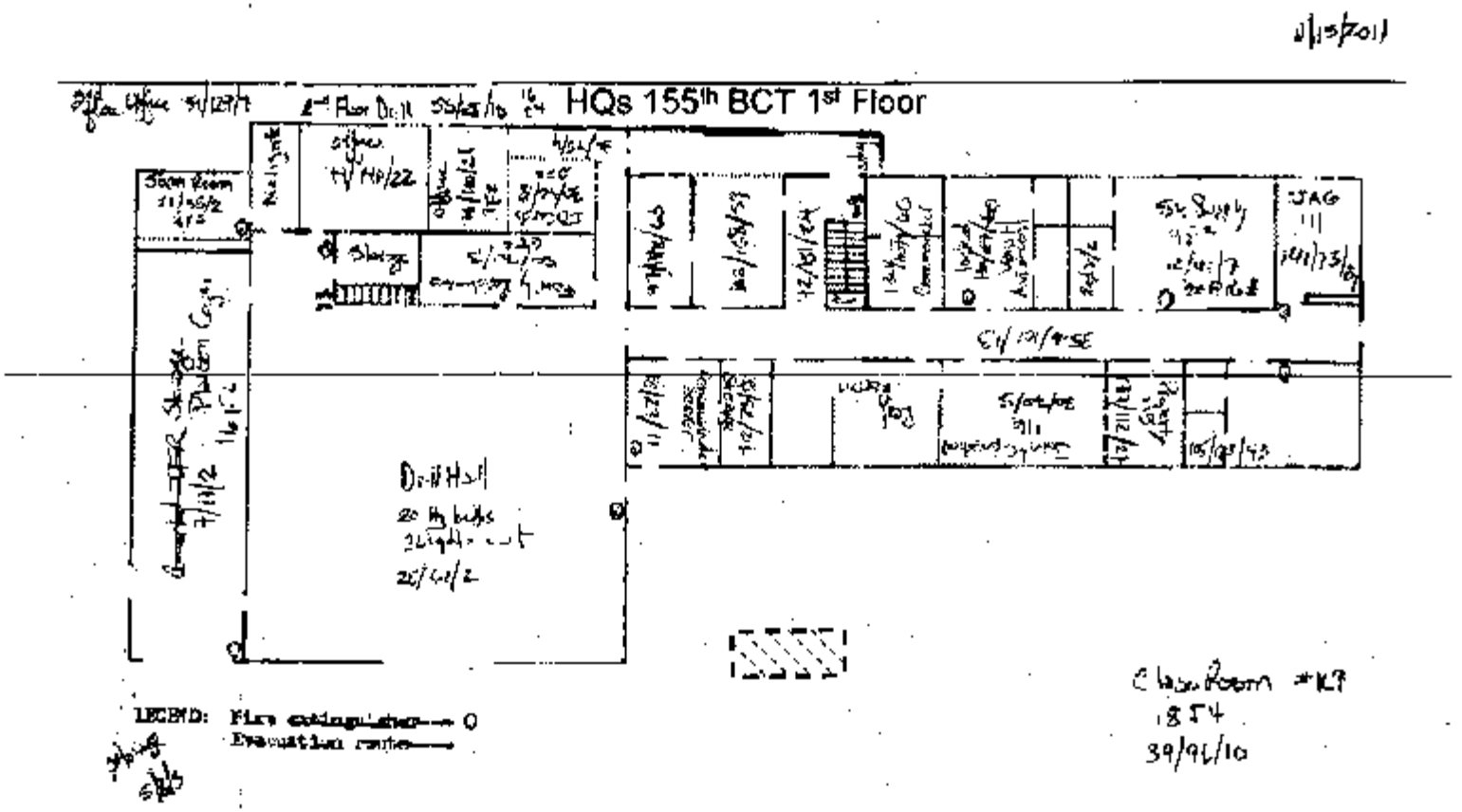

FIRE EVACUATION PLAN

Combat infantry
Lighting Supply

D-1

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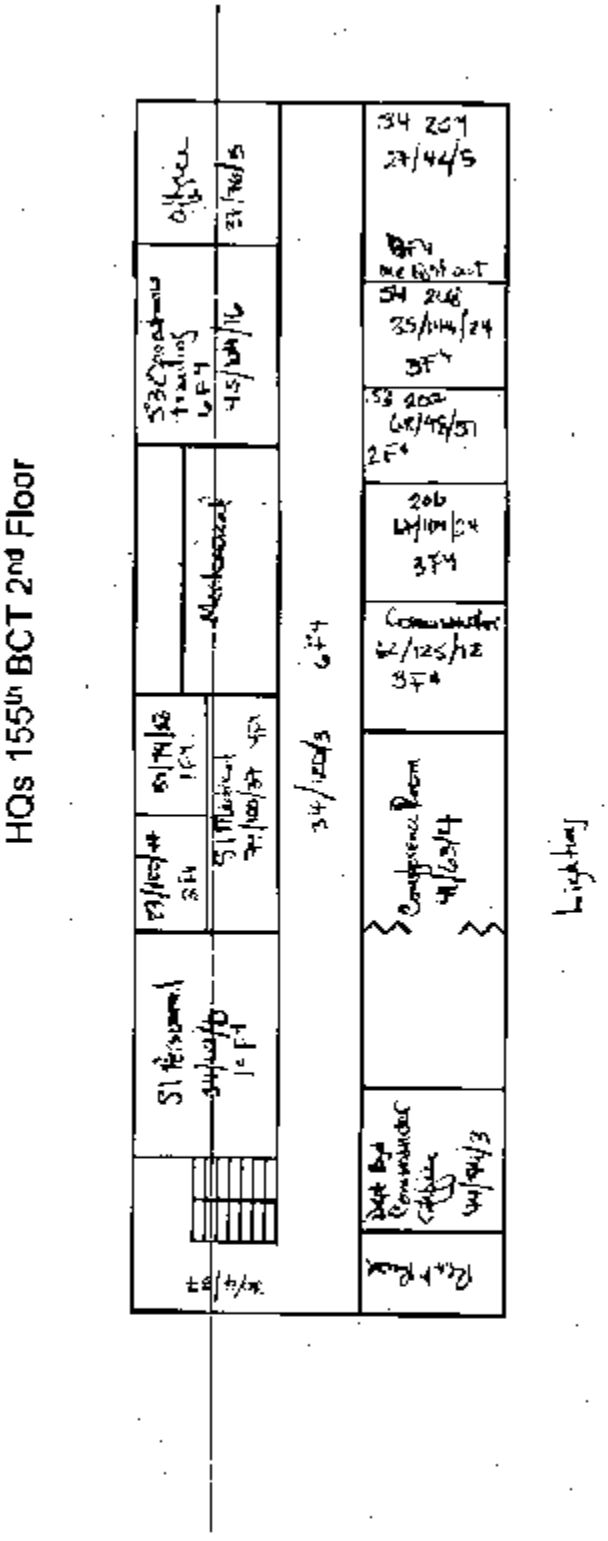
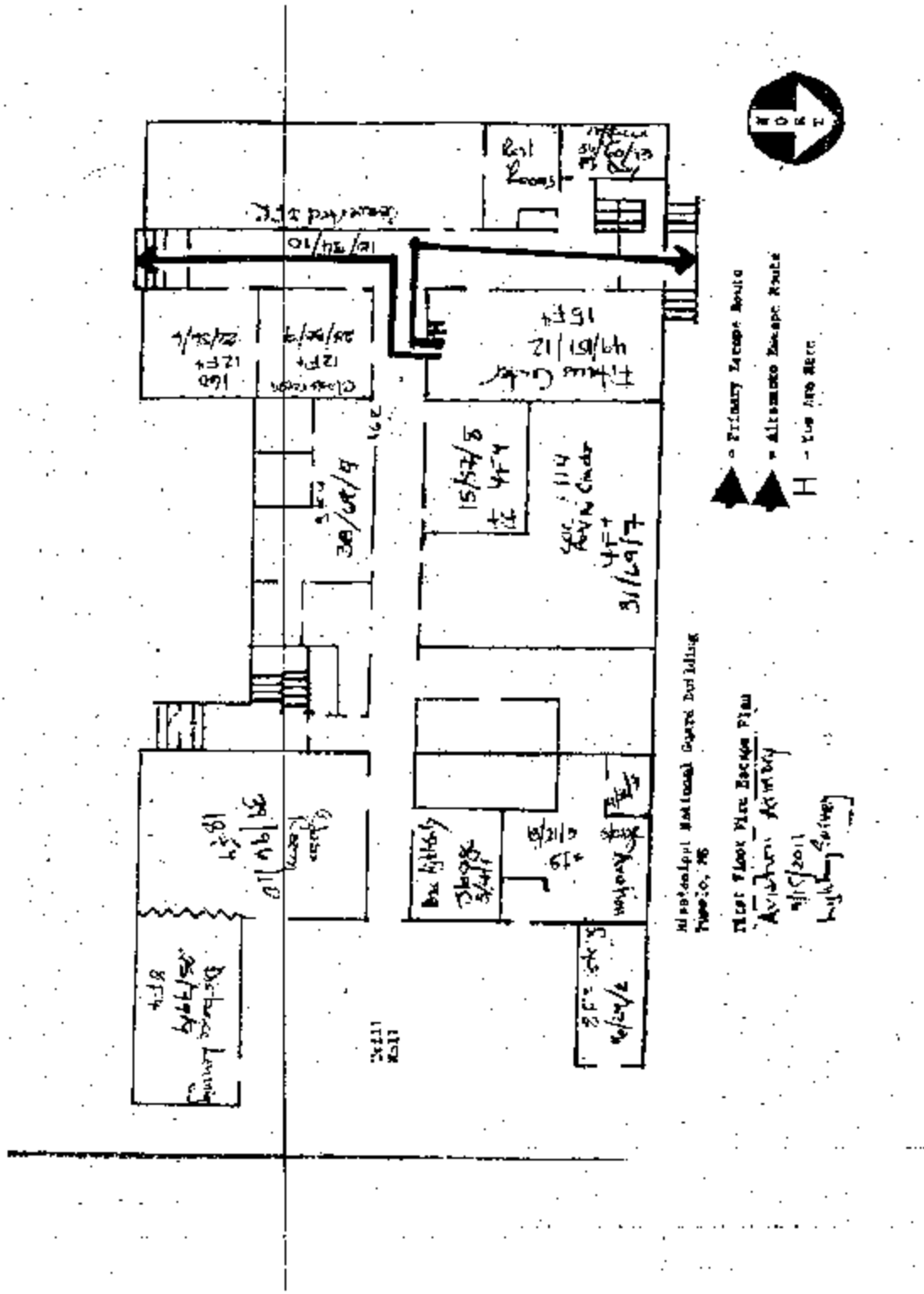
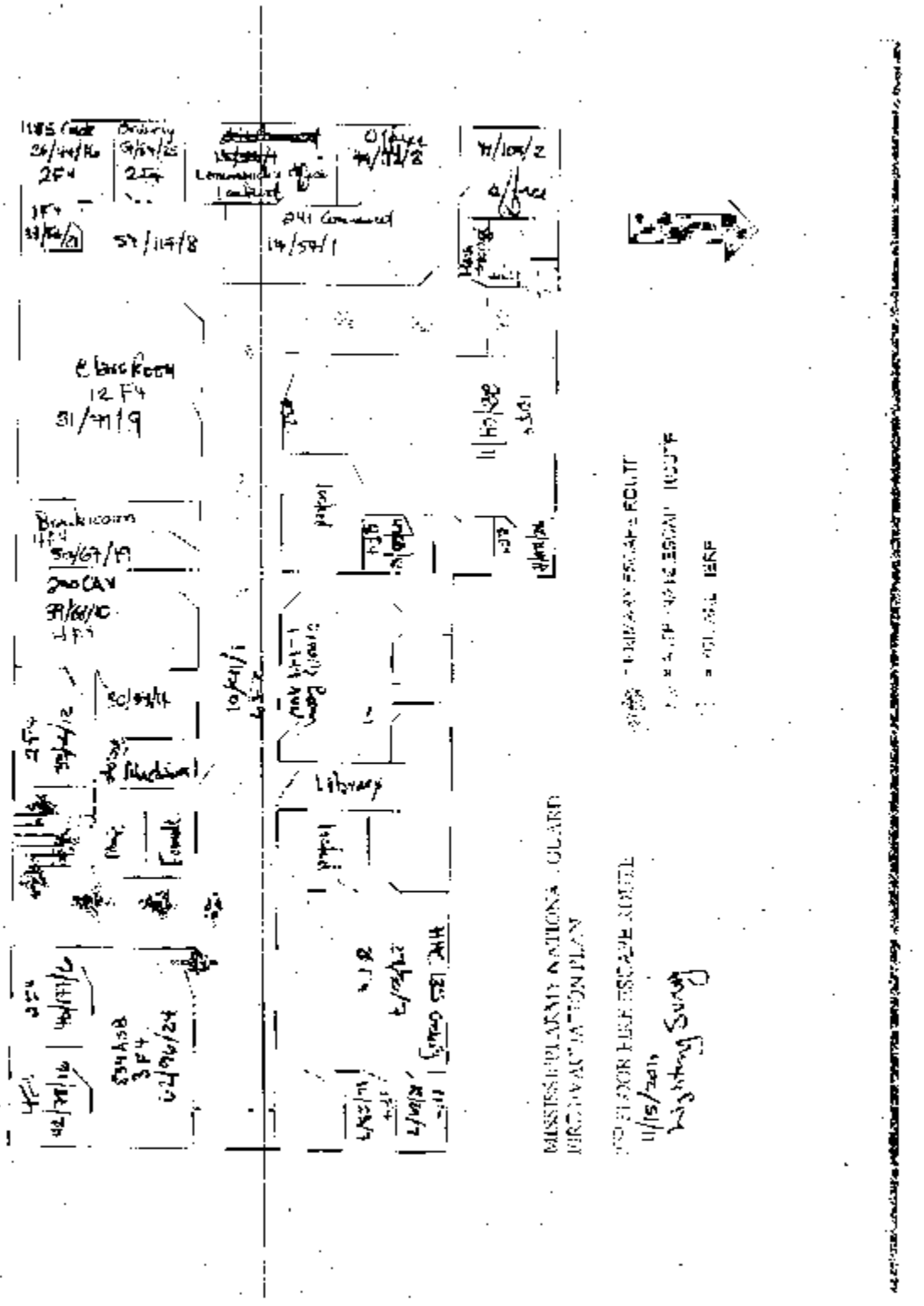

HQs 155th BCT 2nd Floor
Mechanical
Conference Room
Lighting


Rest Rooms
Fitness Center
Classroom
Mississippi National Guard Building
Fire Flow Fire Escape Plan
Primary Escape Route
Alternate Escape Route
Yes Are Here



D-4

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-ARS-IHSE (40-5f)

May 5, 2009

MEMORANDUM FOR: The Adjutant General of MS ARNG, Thru: Non-Responsive, Deputy State Surgeon, 1410 Riverside Dr, Jackson, MS 39202.

ATTN: Non-Responsive, HQ 155th SAB (HVY), Claude F. Clayton Armory, 2705 W. Jackson Street, Tupelo, MS 38801.

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Tupelo Armory, Tupelo, Mississippi.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

   c. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   d. AR 385-10, The Army Safety Program, 23 August 2007.

   e. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   f. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 23 May 2008.

   g. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2008, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   i. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

   k. Industrial Hygiene Survey Report of IH survey of MS ARNG FMS #1, Tupelo, Mississippi, LAE CONSULTING, Severn, MD.

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Tupelo Armory, Tupelo, Mississippi.

2. General.

a. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG Tupelo Armory, Tupelo, Mississippi.

b. The surveys were conducted by Non-Responsive LAE CONSULTING, 1218 Scattered Pines Court, Severn, MD, 21144.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Additionally one noise notification letter was generated based in the data from the survey. Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

4. Recommendations.

a. Understand that all findings found in the enclosed report have been reviewed by the Regional Industrial Hygienist and the following recommendations are the ones to be followed. Use the guidance given in the enclosed report as good IH practices, requesting industrial hygiene (IH) services where needed. The recommendations that follow are based on the survey findings.

i. Upgrade the lighting throughout the facility to meet ANSI standards for each operation. Consider purchasing supplemental lighting such as a desk lamp.. Also, use supplemental lighting for work areas difficult to reach. Replace light bulbs where necesary. Replacing burnt bulbs, painting the walls a light color, cleaning existing light fixtures, rearranging furniture to make better use of available light, and supplemental or task lighting are considerations in increasing available light levels. [IES/ANSI-RP7-1991] (RAC 3)

ii. Conduct periodic water leak inspections of rooms that are not frequently occupied. Install air filters in the air-handling units. Contact the state Facility Maintenance office for assist in developing an air filter and air handler maintenance plan. (RAC 3)

iii. Enforce the wear of hearing protection while operating all tactical vehicles. (RAC 3)

iv. Ensure unauthorized personnel do not enter the range or the observation room. Explain the exposure and health risk to anyone entering these areas. Contact that state Occupational Health office for assistance in developing a handout explaining the risks associated with short term and long term Lead exposures. Ensure the range and observation room is not converted into any new space until remediation and clearance has been performed. (RAC 1)

v. Consider installing a portable eyewash station near the welding area. Ensure the eyewash can deliver at least 15 minutes of flushing fluid. (RAC 3)

SUBJECT: Transmittal of Industrial Hygiene Survey of the Mississippi Army National Guard Tupelo Armory, Tupelo, Mississippi.

b. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2009. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2010 IHIP. Have all HHIM data entered into the HHIM computer module.

c. Use the report to help in correcting all discrepancies noted. Develop a corrective actions plan and forward it to the Occupational Safety and Health Office in 30 days detailing how recommendations are going to be implemented and expected time frames for their implementation.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the State Occupational Health Office, Non-Responsive, for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Mr. Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive
Regional Industrial Hygienist

CF: NGB-ARS-IHSE
Non-Responsive State Safety Manager, 2497 N. West Street, Jackson, MS 39216.
te Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

ENCL.
as

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LAE Consulting

19 April 2009

MEMORANDUM FOR: Commander, HQ 155th SAB (HVY), Claude F. Clayton Armory, ATTN: Non-Responsive 2705 W. Jackson Street, Tupelo, MS 38801

SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

1 References.

a. _Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

b. AR 40-5, Preventive Medicine, 15 October 1990.

c. AR 385-10, 23 May 1988, Army Safety Program.

d. TB MED 503, The Army Industrial Hygiene Program.

e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

f. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

g. Industrial Ventilation, 22nd, Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

h. IES Lighting Handbook, Application Volume 1981, Illumination Engineering Society of North America.

i. National Institute for Occupational Safety and Health (NIOSH), (76-130) Technical Information, Lead Exposure and Design Considerations for Indoor Firing Ranges GPO, 1975.

j. Title 40, Code of Federal Regulations (CFR) Part 745, Lead, Identification of Dangerous Levels of Lead: Final rule.

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SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

2. Background. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, Non-Responsive of LAE Consulting conducted an industrial hygiene survey at the Claude F. Clayton Armory, Tupelo, MS on 10-12. The purpose of the survey was to survey the A Troop 1-230th ACS for an upcoming Aviation Resources Management Survey and to conduct a baseline survey of the Armory. The building was visually examined and employees were interviewed for data related to the building and the operations performed. The illumination was measured and lead wipe samples were taken in various areas of the Armory.

3. Facility Description. This facility currently houses six units the 1-185th Aviation, Headquarters 155th BCT, A Troop 1-230th ACS, Company D 1-151 Aviation (Apache), 834th ASB, and Company C 1-114th Aviation (LUH). The facility houses administrative areas, Supply Rooms, several Arms Rooms, a drill hall, and a deactivated indoor firing range. New bathrooms were being constructed during the survey.

4. Findings.

a. Stained ceiling tiles were observed in room160. Water stains maybe from a former roof leak. A heavy accumulation of dust and dirt are on the supply and return air grills in the room. The facility has six air-handling units. Only one of the six units had air filters installed. The facility never changed the filters and was under the impression that it was a state responsibility.

b. Illumination was surveyed throughout the building. A diagram of illumination measurements can be found within the enclosure of this report. The areas listed below are below the standards required in reference f. The findings are as followed in Foot-candles (FC):

c. Three solvent tanks, used to clean weapons are stored on the drill hall floor. Breakthrough brand solvent is used to remove carbon from weapons. The tanks are not located near windows or doors to provide good ventilation. Gloves are provided through supply. There is no eyewash near the tanks.

d. Sound level measurements were obtained on vehicles belonging to A Troop 1- 230th ACS. Sound levels were measured because of a discrepancy on the initial ARMS. Measurements were obtained on a Light Medium Tactical Vehicle (LMTV), a High Mobility Multipurpose Wheeled Vehicle (HUMMV), and a Heavy Expanded Mobility Tactical Truck (HEMMT). Hearing protection is provided and worn by unit personnel. DD Form 2214, Noise Survey was generated and is provided within the enclosure of the report.

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SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

e. The Armory has a deactivated Indoor Firing range (IFR). The range was active until 2007. The 1449 ft^2 range has five firing lanes. The target carriers and bullet trap are present. Metal fragments and debris are in the pit. The range exhaust is located in the Observation room. The range and the Observation room are separated by a perforated Plexiglas and metal mesh wall. The acoustic material on the walls and ceiling is present. A sign on the Observation room door states "Danger Hazardous Material Do Not Enter". There was no signage on the door leading to the IFR. Contractors constructing new bathrooms in the Armory, installed new tankless water heaters in the Observation room. Lead levels in the Observation room were Lead wipe sampling was performed 20 December 2007 by the State Occupational Health office and again during this survey. The previous sampling showed elevated lead levels in numerous locations within the range. Nineteen Lead wipe samples and one blank were taken in various locations throughout the range and the Armory during this survey. Again, results showed highly elevated lead levels. Copies of both sample reports are located within the enclosure of this report. A contract for range decontamination is in progress. Sample locations and results are at table 1 below.

Table 1

Sample #	Location	Results
1	Left Backstop right side 5 ft up, panel 1	1960000 ug/ft^2
2	Backstop center , panel 3, 4 ft up	84400 ug/ft^2
3	Left metal deflector on wall in backstop area	1290 ug/ft^2
4	Metal Floor deflector at pit, panel 2 from the right	36300 ug/ft^2
5	6 foot block wall in fire lane 1	365 ug/ft^2
6	Floor 2 ft from 1 ft wall 12 feet from pit floor deflector	6890 ug/ft^2
7	Right wall panel 3 up range 5 ft up	63 ug/ft^2
8	Center of range floor @drain	5440 ug/ft^2
9	Left side acoustic wall panel 9 up range 6.5' up	85 ug/ft^2
10	Floor between panel (acoustic tile 10 & 11) 4' from wall	2980 ug/ft^2
11	Floor, right side adjacent to Elect. Outlet 4' wall	1170 ug/ft^2
12	Metal Observation Wall on range side panel 1 from door 3'	44 ug/ft^2
13	Plexiglas Observation wall above panel 3, near exhaust 6' up 2' from wall	96 ug/ft^2
14	Floor, range 4' from Observation wall in front of Outlet	550 ug/ft^2
15	Floor Observation room in front of exhaust 5.5' centered	133 ug/ft^2
16	Wall in Observation room 5' up, 9' from door	62 ug/ft^2
17	Floor hallway between OB room door and Range door 1' out	77 ug/ft^2
18	Top of snack machine in Drill Hall	41 ug/ft^2
19	Serving line kitchen side (very dusty)	21 ug/ft^2
Blank	Blank	27 ug/ft^2

LAE Consulting
1218 Scattered Pines Court, Severn, Maryland 21144
Telephone: (410) 551-2717

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SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

f. A tile sample was removed and analyzed for Asbestos. The beige tile is located on the floor of HHC Supply room. Asbestos was not detected in the sample. A copy of the Sample report is located within the enclosure of this report.

5. Technical Assistance. For technical assistance, regarding information found in this report, please contact [redacted] of the Southeast Regional Industrial Hygiene Office at [redacted]

[redacted]

LAE Consulting

5 Encl
1. Building Diagram
2. HHIM
3. Facility Photos
4. Laboratory Results
5. MSDS

CF:
State Safety and Occupational Health Office, JFH-MS-S/OH, ATTN: [redacted]
Facility Maintenance Office, JFH-MS-ARF, ATTN: [redacted]

LAE Consulting
1218 Scattered Pines Court, Severn, Maryland 21144
Telephone: (410) 551-2717

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SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

6. Recommendations.

a. Conduct periodic water leak inspections of rooms that are not frequently occupied. Install air filters in the air-handling units. Contact the state Facility Maintenance office for assist in developing an air filter and air handler maintenance plan.
(RAC 3)

b. Consider purchasing supplemental lighting such as desk lamps for administrative areas. **(RAC 3)**

c. Recommend installing an OSHA approved portable eyewash station near the solvent tank. OSHA requires that eyewash stations provide a continuous flow/flush for no less than 15 minutes. Continue to supply gloves. **(RAC 3)**

d. Enforce the wear of hearing protection while operating all tactical vehicles.

e. Ensure unauthorized personnel do not enter the range or the observation room. Explain the exposure and health risk to anyone entering these areas. Contact that state Occupational Health office for assistance in developing a handout explaining the risks associated with short term and long term Lead exposures. Ensure the range and observation room is not converted into any new space until remediation and clearance has been performed. **(RAC 1)**

f. Floor tile in the HHC Supply room needs no further evaluation.

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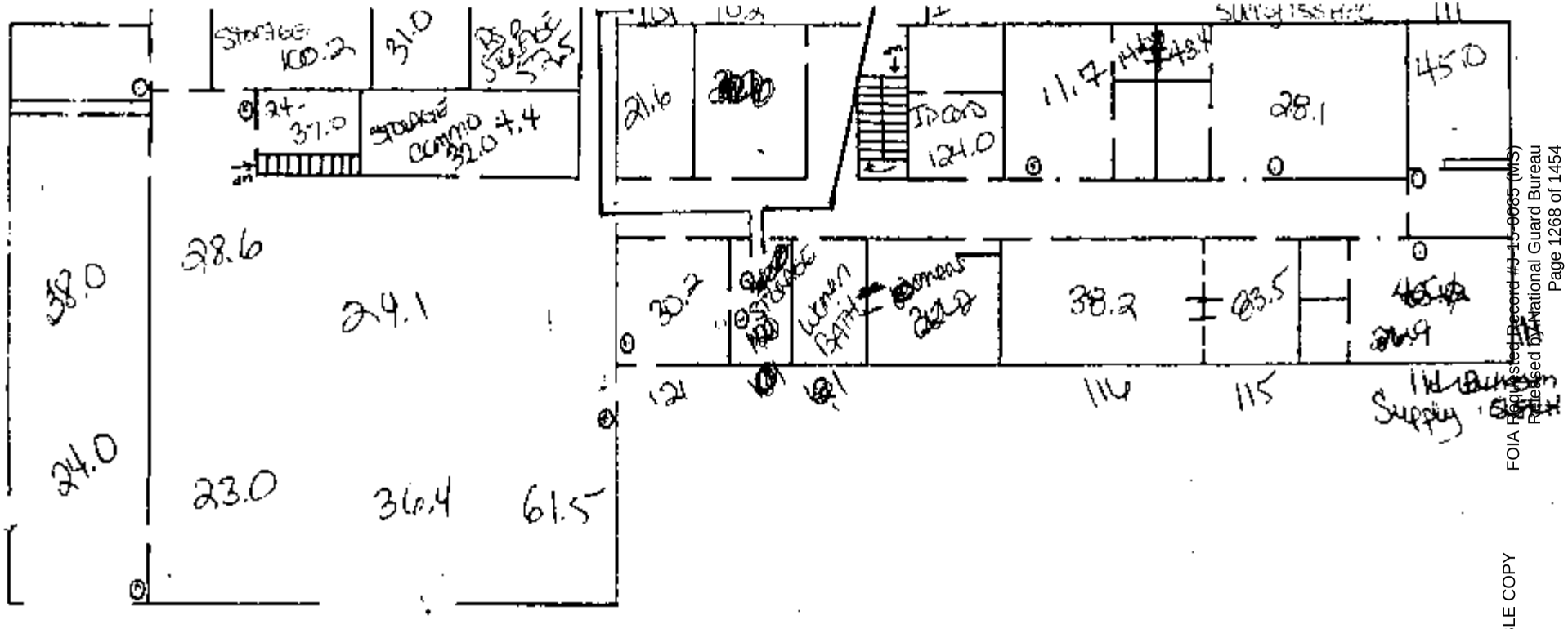

LEGEND: Fire extinguisher —— ⊙
Evacuation route ——

LIGHTING Survey
Old WING 1st FLOOR

FIRE EVACUATION PLAN

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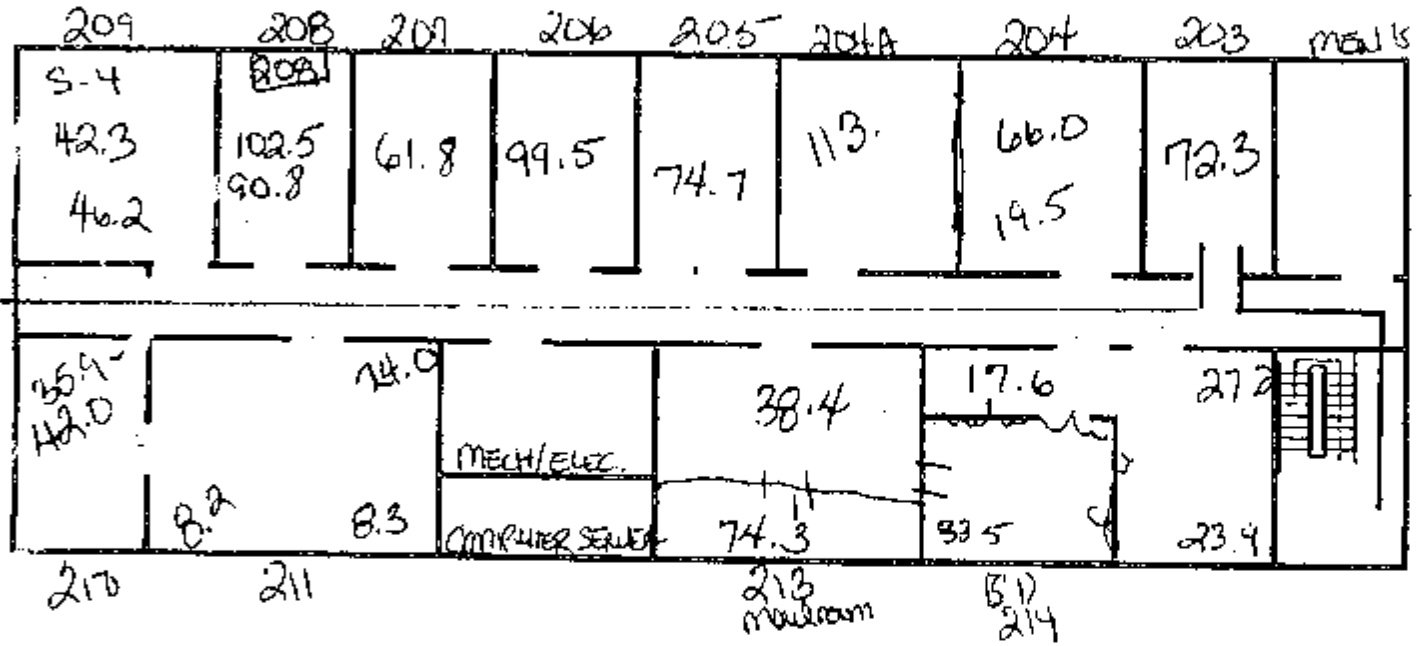
LIGHTING SURVEY
2ND FLOOR



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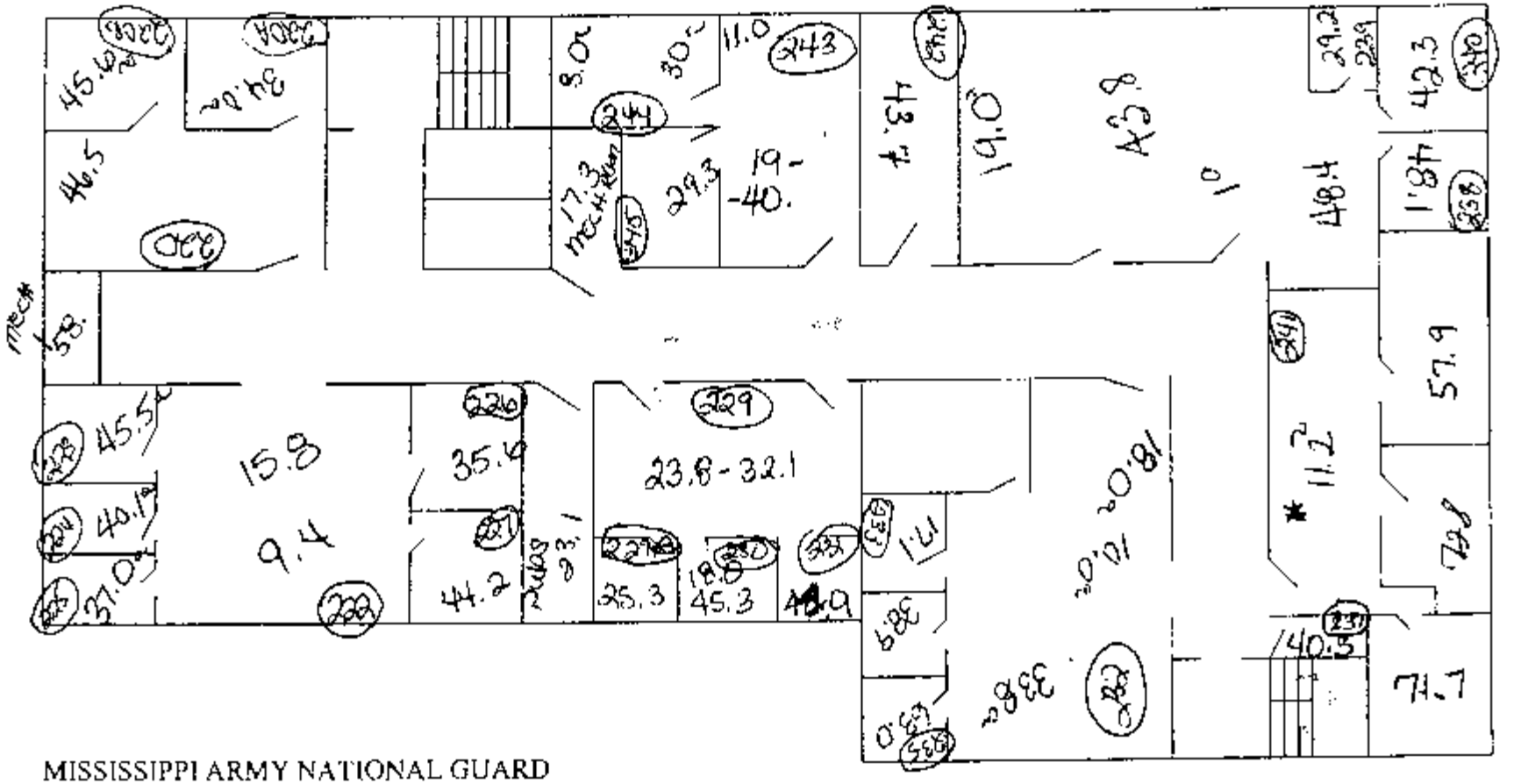
LIGHTING SURVEY



MISSISSIPPI ARMY NATIONAL GUARD
FIRE EVACUATION PLAN

2ND FLOOR FIRE ESCAPE ROUTE

= PRIMARY ESCAPE ROUTE

= ALTERNATE ESCAPE ROUTE

= YOU ARE HERE

NORTH

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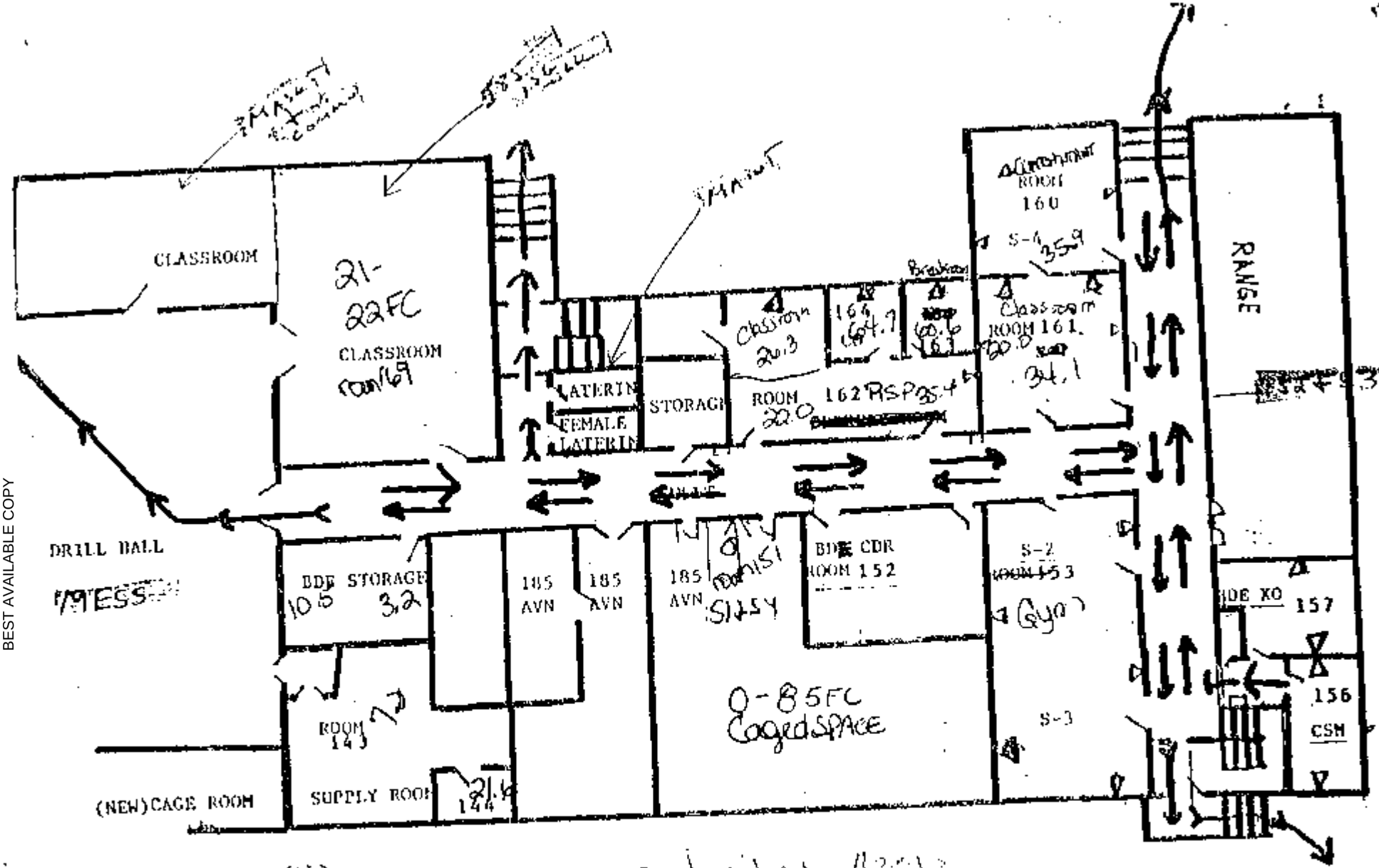

Section SGT's Responsible For Individual Rooms

Co. Pieces of Area

3:30 Start Clean-up

4:00 Outside police call

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NOISE SURVEY

(Sound Level Meter Survey)

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1. DATE (YYYYMMDD): 20090311

2. TYPE SURVEY (Enter code): [X] 1 - INITIAL SURVEY 2 - RE-SURVEY 3 - OTHER

3. SOUND LEVEL METER
a. MANUFACTURER: QUEST
b. MODEL: 2800
c. SERIAL NO: H8090013
d. LAST ELECTROACOUSTIC CALIB DATE (YYYYMMDD): 20081710

4. MICROPHONE
a. MANUFACTURER:
b. MODEL:
c. SERIAL NO.:
d. LAST ELECTROACOUSTIC CALIB DATE (YYYYMMDD):

5. CALIBRATOR
a. MANUFACTURER: QUEST
b. MODEL: QC10
c. SERIAL NO: QB100 24
d. LAST ELECTROACOUSTIC CALIB DATE (YYYYMMDD): 20081710

6. WIND SCREEN (X one): [X] USED [ ] NOT USED

7. MEASUREMENTS OBTAINED (X one): [ ] INDOORS [X] OUTDOORS

8. DESCRIPTION OF AREAS/DUTIES WHERE NOISE SURVEY CONDUCTED (Indicate on additional sheet and attach to form)
Military vehicles parked in the motorpool. Vehicles are started and PMCS is typically performed during Drills. ~~Armory~~ Motorpool is used to store vehicles and vehicle maint is performed by FMS Shop. Vehicles belong to A Co 1-230th

9. PRIMARY SOURCE OF NOISE: Military vehicles

10. SECONDARY SOURCE OF NOISE:

11. SOUND LEVEL DATA

a. LOCATION	b. METER ACTION	c. dBC	d. dBA	e. RISK ASSESSMENT CODE	12. PROTECTION REQUIRED (re: dBA - Level) a. NONE (Less than 85)	b. PLUG OR MUFF (85-108)	c. PLUG AND MUFF (105-118)	d. PLUG + MUFF + TIME LIMIT (Greater than 118)
LMTV - Det 1 D3 @ 1st Crank Outside Veh	S		91.7			X		
LMTV - Det 1 D3 Inside Cab	S		83.7		X			
LMTV - Det 1 D3 @ High Idle Outside Veh	S		87.6			X		
LMTV - Det 1 D3 @ High Idle Inside Cab	S		83.3		X			
HUMMV - Det D 2 @ 1st Crank Outside Veh.	S		95.7			X		
HUMMV - Det D 2 @ Inside Vehicle Parked	S		74.5		X			

NOTES: Range of levels noted by [illegible] 102-109. At operator stations, measure at ear level.
METER ACTION: Enter F for fast meter action and S for slow meter action.

13. REMARKS (i.e., Area and equipment posted, hearing protection in use, etc.)
All vehicles RAN PARKED. By AR Hearing Protection shall be worn while operating military vehicles. By AR Soldiers shall be issued hearing protection.

14. MORE DETAILED NOISE EVALUATION REQUIRED: [ ] YES [X] NO (If "YES," identify type evaluation needed.)

15. NAME(S) OF PERSON(S) IDENTIFIED FOR AUDIOMETRIC MONITORING (Use additional sheet if more space is needed and attach to form)

16. SUPERVISOR OF NOISE-HAZARDOUS AREA OR OPERATION
a. NAME (Last, First, Middle Initial):
b. TELEPHONE (Include area code):
c. ORGANIZATION:

17. SURVEY PERFORMED BY (Last Name, First Name, MI):

18. HEARING CONSERVATION MONITOR (Last Name, First Name, MI):

DD FORM 2214, JAN 2000 PREVIOUS EDITION MAY BE USED.

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NOISE SURVEY (Continuation Sheet)

(Sound Level Meter Survey)

1. DATE (YYYYMMDD): 20081710

2. TYPE SURVEY (Enter 1, 2, or 3 in box): [1] 1 - INITIAL SURVEY 2 - RE-SURVEY 3 - OTHER

3. SOUND LEVEL DATA

a. LOCATION	b. METER ACTION	c. dBC	d. dBA	e. RISK ASSESSMENT CODE	4. PROTECTION REQUIRED (re: dBA Level) a. NONE (Less than 85)	b. PLUG OR MUFF (85-108)	c. PLUG AND MUFF (108-118)	d. PLUG + MUFF + TIME LIMIT (Greater than 118)
HUMMV - DET D2 @ OUTSIDE VEH PARKED	S		76.5		X			
HEMMT - M977 DET E1 @ 1st CRANK	S		88.5			X		
HEMMT - M977 DET E1 RUNNING INSIDE CAB	S		78.5		X			
HEMMT - M977 DET E1 HIGH IDLE INSIDE	S		83.4		X			
HEMMT - M977 DET E1 OUTSIDE NEAR EXHAUST	S		90.8 - 91.0			X		
HEMMT - M977 DET E1 WHILE BLEEDING AIR	S		93.7			X		

5. SURVEY PERFORMED BY (Last Name, First Name, Middle Initial): EVANS LISA

6. HEARING CONSERVATION MONITOR (Last Name, First Name, Middle Initial):

DD FORM 2214C, JAN 2000 PREVIOUS EDITION MAY BE USED.

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Analytical Environmental Services, Inc.

Date: 3/25/2009

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: LAE Consulting
Project: Tupelo MS Armory
Delivery Order:
PO No:

Lab Order: 0903A58
Date Received: 3/17/2009 2:30 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
0903A58-001A	BLANK	27	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-002A	LW-01	1960000	µg/ft²	58200	2912	3/11/2009	3/20/2009	MAW
0903A58-003A	LW-02	84400	µg/ft²	2000	100	3/11/2009	3/20/2009	MAW
0903A58-004A	LW-03	1290	µg/ft²	51	2.53	3/11/2009	3/20/2009	MAW
0903A58-005A	LW-04	36300	µg/ft²	753	37.66	3/11/2009	3/20/2009	MAW
0903A58-006A	LW-05	365	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-007A	LW-06	6890	µg/ft²	266	13.32	3/11/2009	3/20/2009	MAW
0903A58-008A	LW-07	63	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-009A	LW-08	5440	µg/ft²	114	5.71	3/11/2009	3/20/2009	MAW
0903A58-010A	LW-09	85	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-011A	LW-10	2980	µg/ft²	90	4.5	3/11/2009	3/20/2009	MAW
0903A58-012A	LW-11	1170	µg/ft²	46	2.28	3/11/2009	3/20/2009	MAW
0903A58-013A	LW-12	41	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-014A	LW-13	96	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-015A	LW-14	550	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-016A	LW-15	133	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-017A	LW-16	62	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-018A	LW-17	77	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-019A	LW-18	41	µg/ft²	20	1	3/11/2009	3/20/2009	MAW
0903A58-020A	LW-19	21	µg/ft²	20	1	3/11/2009	3/20/2009	MAW

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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0903A33 Please email results

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Pkwy., Atlanta, GA 30340-3704
(770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

Non-Responsive [redacted]

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: NGB-IH OFFICE / LAE CONSULTING
Phone:
Address: 1218 Scattered Pines Court
Fax: ( )
City, State, Zip: SOLERN, MD 21144
Project Name: Tupelo MS Armory
Contact : Non-Responsive [redacted]
~~Project Number~~ email: Non-Responsive [redacted]
Sampler's Name [redacted]
Sampling Date: 11 Mar 09

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	PACM-01	Floortile, beige, Supply 155th HHC	PLM	5day	0/0 Fiber/type	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Relinquished by: Non-Responsive [redacted] Date/Time: 16 Mar 09
Received by: Date/Time:
Relinquished by: Date/Time:
Received by: Date/Time:

FOR LAB USE ONLY

Lab Recipient Non-Responsive [redacted] Date/Time: 3/17/9 2:30 Method of Shipment USMail

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report

Client Name: LAE Consulting
Project Name: TUPELO MS ARMORY
Project Number:

Lab ID# 102082-0
AES Job Number: 0903A33
Monday, March 23, 2009

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
PACM-01 Layer: 1	0903A33-001A	Floor Tile, Beige, Supply HHC 155th	ND	ND	ND	ND	ND	ND	Beige FloorTile with glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
For comments on the samples, see the individual analysis sheets.
ND = None Detected
PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of Standards and Technology for Polarized Light Microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program, Laboratory ID 102082-0. All percentages given are by visually estimated volume. All analyses are performed in accordance with the EPA "Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993." This report must not be reproduced except in full without the approval of Analytical Environmental Service, inc. These test results apply only to the samples actually tested.

Microanalyst: Non-Responsive [redacted]

QC Analyst: Non-Responsive [redacted]

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HEALTH HAZARD INFORMATION MODULE - INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

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ARLOC	INSTALLATION CLAUDE F. CLAYTON ARM0RY	BLDG/RM NO. 104 LEMONS DRIVE TUPELO, MS 38801

LOCATION/CODE	OPERATION/CODE SAH (SUPPLY)

SURVEY DATE 10-11 MARCH 2009	EVALUATOR LAE CONSULTING

MACOM/CODE	SUBMACOM/CODE	SUPERVISOR Non-Responsive

TELEPHONE/DSN NO.	UNIT/ORGANIZATION A TROOP 1-230 ACS	RAC 4	FREQUENCY (hrs/day) 8 HOUR

NO. CIV(S)	NO. MIL 2	NO. CONTRACTORS	NO. LOC(S)	NO. OTHER

SECTION 2: FACILITY DATA

LAB HOODS	VAPOR DEGREASERS	SPRAY BOOTHS 2
MAINTENANCE BAYS	OPEN SURFACE TANKS 1	VENTILATION UNITS

SECTION 3: SURVEY DATA

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED	STATUS

PERSONAL PROTECTIVE EQUIPMENT (R= REQUIRED; U = UTILIZED)

GLOVES	R/U	RESPIRATOR	NIOSH TC NO.	MANUFACTURER	R/U
ACID	/	AIR LINE			
COLD SURFACES	/	ABRASIZE BLASTING HOOD			/
HOT SURFACES	/	DISPOSABLE			/
NBC AGENTS	/	FULL FACE AIR PURIFYING			/
OIL	/	1/2 FACE AIR PURIFYING			/
SOLVENTS	X/X	1/4 FACE AIR PURIFYING			/
SURGICAL GLOVES	/	SELF CONTAINED			/

EYES/FACE	R/U	HEARING	R/U	BODY	R/U	HEAD/FIT	R/U
CHEMICAL SPLASH	X/	CANAL CAPS	/	APRONS	/	COLD WEATHER BOOTS/HATS	/
FULL FACE SHEILD	X/	EARPLUGS	X/	COLD WEATHER CLOTHING	/	HARD HATS	/
CHEMICAL/SAFETY	X/	HELMETS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SAFETY/IMPACT	X/	MUFFS	X/	FULL BODY SUIT	/	SAFETY/CONDUCTIVE SHOES	/
WELDING HELMET	X/	MUFF/EARPLUG COMBO	/	HEAT REFELECTIVE VEST/SUIT	/	SAFETY/NON-CONDUCTIVE SHOES	X/
		MUFF/EARPLUG W/TIME LIMIT	/	SAFETY BELT/HARNESS	/		/

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CAS CODE	HAZARD DESCRIPTION	PAC	EPC
7439-92-1	LEAD, INORGANIC DUSTS & FUMES	3	

SECTION 5 PERSONNEL DATA

LAST NAME	FIRST NAME	MI	SEX	SSN	CATEGORY

SECTION 6 COMMENTS

Storage and Issue of Weapons Possible Lead exposure during weapons cleaning. Ensure hands are washed after handling weapons. Provide Eye splash goggles and gloves while using solvent tank.

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HEALTH HAZARD INFORMATION MODULE - INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

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ARLOC	INSTALLATION CLAUDE F. CLAYTON ARMORY	BLDG/RM NO. 104 LEMONS DRIVE TUPELO, MS 38801
LOCATION/CODE MN	OPERATION/CODE VEHICLE STORAGE/ MOTORPOOL	
SURVEY DATE 10-11 MARCH 2009	EVALUATOR LAE CONSULTING	
MACOM/CODE	SUBMACOM/CODE	SUPERVISOR Non-Responsive

TELEPHONE/DSN NO. Non-Responsive	UNIT/ORGANIZATION A TROOP 1-230TH ACS	RAC 4	FREQUENCY (hrs/day) 8 hours

NO. CIV(S)	NO. MIL	NO. CONTRACTORS	NO. LOC(S)	NO. OTHER

SECTION 2. FACILITY DATA

LAB HOODS	VAPOR DEGREASERS	SPRAY BOOTHS
MAINTENANCE BAYS 0	OPEN SURFACE TANKS 0	VENTILATION UNITS 0

SECTION 3. SURVEY DATA

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED	STATUS
VEHICLE NOISE DURING PARK	74.5-95.7	DBA	HEARING PROTECTION	ACCOM

PERSONAL PROTECTIVE EQUIPMENT (R= REQUIRED; U = UTILIZED)

GLOVES	R/U	RESPIRATOR	NIOSH TC NO.	MANUFACTURER	R/U
ACID	/	AIR LINE			/
COLD SURFACES	/	ABRASIZE BLASTING HOOD			/
HOT SURFACES	/	DISPOSABLE			/
NBC AGENTS	/	FULL FACE AIR PURIFYING			/
OIL	/	1/2 FACE AIR PURIFYING			/
SOLVENTS	/	1/4 FACE AIR PURIFYING			/
SURGICAL GLOVES	/	SELF CONTAINED			/
					/

EYES/FACE	R/U	HEARING	R/U	BODY	R/U	HEAD/FIT	R/U
CHEMICAL SPLASH	/	CANAL CAPS	/	APRONS	/	COLD WEATHER BOOTS/HATS	/
FULL FACE SHEILD	/	EARPLUGS	X/X	COLD WEATHER CLOTHING	/	HARD HATS	/
CHEMICAL/SAFETY		HELMETS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SAFETY/IMPACT		MUFFS	X/X	FULL BODY SUIT	/	SAFETY/CONDUCTIVE SHOES	/
WELDING HELMET		MUFF/EARPLUG COMBO	/	HEAT REFELECTIVE VEST/SUIT	/	SAFETY/NON-CONDUCTIVE SHOES	X/X
		MUFF/EARPLUG W/TIME LIMIT	/	SAFETY BELT/HARNESS	/		/

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CAS CODE	HAZARD DESCRIPTION	PAC	EPC
PONOISECO	Noise Continuous	3	
COGASENEX	Gasoline Exhaust Products	3	

SECTION 5: PERSONNEL DATA

LAST NAME	FIRST NAME	MI	SEX	SSN	CATEGORY

SECTION 6: COMMENTS

Armory does not have a true Motor pool. Basically a parking lot. Vehicle maintenance is performed at the FMS shop in Tupelo. MS. Vehicle was started to evaluate noise on 3 types of vehicles. AR states soldiers are issued and required to wear hearing protection while operating Military vehicles

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INLAND TECHNOLOGY INC -- FB245, BREAKTHROUGH

MSDS Safety Information

FSC: 6850
NIIN: 01-378-0666
MSDS Date: 06/26/2001
MSDS Num: CLNHC
Product ID: FB245, BREAKTHROUGH
MFN: 03
Responsible Party
Cage: 0K209
Name: INLAND TECHNOLOGY INC
Address: 401 E 27TH ST
City: TACOMA WA 98421
Info Phone Number: Non-Responsive
Emergency Phone Nu
Resp. Party Other MSDS No.: 03201

Item Description Information

Item Manager: S9G
Item Name: CLEANING COMPOUND,SOLVENT
Specification Number: NONE
Type/Grade/Class: NONE
Unit of Issue: DR
Quantitative Expression: 00000000055GL
UI Container Qty: 1
Type of Container: DRUM

Ingredients

Cas: 64742-48-9
Name: C12-C13 PARAFFINIC HYDROCARBONS
OSHA PEL: NOT LISTED
ACGIH TLV: NOT LISTED

Health Hazards Data

Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: ACUTE HEALTH EFFECTS: LIQUID CONTACTING THE EYES MAY CAUSE EYE IRRITATION. LOW ORDER ACUTE ORAL AND DERMAL TOXICITY. INHALATION OF VAPORS CAN CAUSE IRRITATION TO NOSE, THROAT, AND UPPER RESPIRATORY TR ACT. CHRONIC HEALTH EFFECTS: PROLONGED OR REPEATED SKIN EXPOSURE CAN LEAD TO MILD IRRITATION, DEFATTING, AND DERMATITIS.
Explanation Of Carcinogenicity: NO CARCINOGENIC CAUSING INGREDIENTS.
Signs And Symptions Of Overexposure: EYES: IRRITATION. INHALATION: IRRITATION OF NOSE, THROAT, AND UPPER RESPIRATORY TRACT, DEFATTING, DERMATITIS.
Medical Cond Aggravated By Exposure: MAY AGGRAVATE EXISTING DERMATITIS.
First Aid: EYES: IF EYE CONTACT OCCURS FLUSH WITH WATER FOR AT LEAST 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS CONTACT PHYSICIAN. SKIN: IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOT HING AND WASH SKIN THOROUGHLY WITH SOAPAND WATER. INHALATION: IF OVERCOME BY VAPOR, REMOVE FROM EXPOSED AREA AND CALL PHYSICIAN IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATE LY.

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Handling and Disposal.

Spill Release Procedures: STOP USE AND ELIMINATE ALL IGNITABLE SOURCES. CONTAIN AND COLLECT MATERIAL. ABSORB RESIDUE.
Waste Disposal Methods: CONTACT FEDERAL, STATE, COUNTY OR LOCAL ENVIRONMENTAL REGULATORY AGENCIES FOR GUIDANCE.
Handling And Storage Precautions: USE AND STORE AWAY FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINER SEALED WHEN NOT IN USE.
Other Precautions: KEEP ALL CHEM CALS OUT OF THE REACH OF CHILDREN.

Fire and Explosion Hazard Information

Flash Point Method: PMCC
Flash Point: 61.0C, 150.1F
Lower Limits: 0.8
Upper Limits: 7
Extinguishing Media: FOAM, WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE.
Fire Fighting Procedures: USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED AND CONFINED SPACES OR AS OTHERWISE NEEDED.
Unusual Fire/Explosion Hazard: NONE KNOWN

Control Measures

Respiratory Protection: NONE NORMALLY REQUIRED.
Ventilation: USE MECHANICAL DILUTION VENTILATION WHENEVER PRODUCT IS USED IN A CONFINED SPACE, IS HEATED ABOVE AMBIENT TEMPERATURES, OR IS AGITATED.
Protective Gloves: USE CHEMICAL-RESISTANT, IF NEEDED.
Eye Protection: USE SPLASH GOGGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR.
Other Protective Equipment: PROVIDE EYE WASH OR STERILE EYE RINSE STATION.
Work Hygienic Practices: READ AND UNDERSTAND ALL CAUTIONS, LABELS, AND MSDS BEFORE USING THIS PRODUCT. BREATHING VAPOR OR MIST. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health: MSDS NO: 03105. PRODUCT NUMBER: FR745. SYNONYMS: NSN'S: 6850-01-378-0666, 6850-01-378-0679, & 6850-01-378-0693.

Physical/Chemical Properties

BPC: 94
Melting Point: -18F.8C, 33C.1
Vapor Pressure: <2
Vapor Density: >1
Spec Gravity: 0.77
Solubility in Water: NOT WATER SOLUBLE
Appearance And Odor: CLEAR WITH MILD PETROLEUM ODOR.
Percent Volatiles by Volume: 100

Reactivity Data

Stability Indicator: YES
Materials To Avoid: AVOID CONTACT WITH STRONG ACIDS AND STRONG OXIDIZING AGENTS.
Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE AND HYDROCARBONS.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: WILL NOT OCCUR.

Transportation Information

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Ecological Information

Ecological : BREAKTHROUGH HAS NO LISTED COMPONENTS AND NO CHARACTERISTICS OF HAZARDOUS WASTE PER EPA AND THE DEPARTMENT OF ECOLOGY REGULATIONS.

MSDS Transport Information

Regulatory Information

Sara Title III Information: BREAKTHROUGH HAS LOW VAPOR PRESSURE TO CONTROL VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS, IS NON PHOTOCHEMICALLY REACTIVE, NON-CARCINOGENIC AND IS EXEMPT FROM SARA, TITLE III, SECTION 302 OR 313, CERCLA, AND RCRA REQUIREMENTS.

Federal Regulatory Information: WORKER EXPOSURE IS NOT REGULATED BY THE OSHA Z-LIST, AND BREAKTHROUGH HAS NO LISTED COMPONENTS AND NO CHARACTERISTICS OF HAZARDOUS WASTE PER EPA AND THE DEPARTMENT OF ECOLOGY REGULATIONS.

Other Information

Other Information: U.S. ARMY: A TOXICITY CLEARANCE GRANTED FOR USE AS DEGREASING SOLVENT CONFORMING TO FEDERAL SPECIFICATION P-D-680. U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE, 28 JAN,1997. AFC CHC E MESSAGE #92 AUTHORIZES BREAKTHROUGH AS AN ENVIRONMENTALLY COMPLIANT REPLACEMENT FOR PD 680 TYPE I AND TYPE II FOR CLEANING US ARMY WEAPONS, GROUND VEHICLES, EQUIPMENT, AND AVIATION MATERIALS. IB 43-0 135 RECOMMENDED SUBSTITUTES FOR OZONE DEPLETING SUBSTANCES USED ON COMMUNICATIONS-ELECTRONICS EQUIPMENT. U.S. AIR FORCE: TECH ORDER #4W-1 61 REPLACE PD 680 TYPE II FOR CLEANING AIRCRAFT WHEEL ASSEMBLIES.

Transportation Information

Responsible Party Cage: 0K209
Item ID NO: 159259
Product ID: 72248, BREAKTHROUGH
MSDS Prepared Date: 06/26/2001
Review Date: 11/28/2001
MSN: 3
Net Unit Weight: 357. LBS
Multiple KIT Number: 0
Review IND: Y
Unit Of Issue: DR
Container QTY: 1
Type Of Container: DRUM

Detail DOT Information

DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail IMO Information

IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

Detail IATA Information

IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail AFI Information

AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

HAZCOM Label

Product ID: 98245, BREAKTHROUGH
Cage: 0K209
Company Name: INLAND TECHNOLOGY INC
Street: 401 E 27TH STREET
City: TACOMA WA
Zipcode: 98421-1203
Health Emergency Phone: 800 253-3924
Label Required IND: Y
Date Of Label Review: 11/26/2001
Status Code: A
Label Date: 11/26/2001
Origination Code: E
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: NO
Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: Moderate
Reactivity Hazard: None
Hazard And Precautions: USE AND STORE AWAY FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINER SEALED WHEN NOT IN USE. KEEP ALL CHEMICALS OUT OF REACH OF CHILDREN. ACUTE HEALTH EFFECTS: LIQUID CONTACTING THE EYES MAY CAUSE EYE IRRITATION. LOW ORDER ACUTE ORAL AND DERMAL TOXICITY. INHALATION OF VAPORS CAN CAUSE IRRITATION TO NOSE, THROAT, AND UPPER RESPIRATORY TRACT. CHRONIC HEALTH EFFECTS: PROLONGED OR REPEATED SKIN EXPOSURE CAN LEAD TO MILD IRRITATION, DEFATTING, AND DERMATITIS.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.

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May, 2018

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FOIA Requested Record #J-15-0085 (MS)
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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 03, 2008

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349
Non-Responsive

RE: Tupelo MS. Armory

Dear Non-Responsive

Order No.: 0801547

Analytical Environmental Services, Inc. received 20 samples on 1/10/2008 1:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 8 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,
Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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Analytical Environmental Services, Inc.

Date: 10/3/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South 1H
Project: Tupelo MS. Armory
Delivery Order:
PO No:

Lab Order: 0801547
Date Received: 1/10/2008 1:00 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
0801547-001A	1	BRL	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-002A	2	BRL	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-003A	3	924	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-004A	4	259000	µg/ft²	7540	377	12/20/2007	1/15/2008	JY
0801547-005A	5	34000	µg/ft²	2000	100	12/20/2007	1/15/2008	JY
0801547-006A	6	811000	µg/ft²	27600	1379	12/20/2007	1/15/2008	JY
0801547-007A	7	312	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-008A	8	47	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-009A	9	221	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-010A	10	27	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-011A	11	BRL	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-012A	12	23	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-013A	13	5220	µg/ft²	199	9.95	12/20/2007	1/15/2008	JY
0801547-014A	14	2130	µg/ft²	67	3.36	12/20/2007	1/15/2008	JY
0801547-015A	15	171	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-016A	16	49	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-017A	17	BRL	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-018A	18	BRL	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-019A	19	BRL	µg/ft²	20	1	12/20/2007	1/15/2008	JY
0801547-020A	20	BRL	µg. Total	20	1	12/20/2007	1/15/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: Ø8Ø1547

Date: 1/8/08 Page 1 of 2

COMPANY: Region South IH office

[redacted] Non-Responsive

ADDRESS: 510 Plaza Drive College Park 30349

FAX:

SIGNATURE:

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	1	20 Dec 07		X		wipe		1' XY Sample area	1
2	2			X		"		"	1
3	3			X		"		"	1
4	4			X		"		"	1
5	5			X		"		"	1
6	6			X		"		"	1
7	7			X		"		"	1
8	8			X		"		"	1
9	9			X		"		"	1
10	10			X		"		"	1
11	11			X		"		"	1
12	12			X		"		"	1
13	13			X		"		"	1
14	14			X		"		"	1

RELINQUISHED BY DATE/TIME

[redacted] Non-Responsive

RECEIVED BY DATE/TIME

1: Fed Ex

2: NGB -

3: [redacted] Non-Responsive 1/8/08

[redacted] NT METHOD 1/10/08 1:00

IN / / VIA

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Tupedo MS. Armory

PROJECT #:

SITE ADDRESS: 104 [redacted] Non-Responsive

SEND REPORT

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers 14

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 080547

Date: 1/8/08 Page 2 of 2

COMPANY: Region South I H office

[redacted] Non-Responsive

ADDRESS: 510 Plaza Drive College Park, GA 30349

FAX:

SIGNATURE:

ANALYSIS REQUESTED: Lead

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	REMARKS	No. # of Containers
1	15	20 Dec 07		X		wipe	1' X 1' sample	1
2	16	"		X		"	" " "	1
3	17	"		X		"	" "	1
4	18	"		X		"	" "	1
5	19	"		X		"	" "	1
6	20	"		X		"	" "	1
7							Blank	1
8								
9								
10								
11								
12								
13								
14								

RELINQUISHED BY: [redacted] Non-Responsive DATE/TIME

RECEIVED BY: DATE/TIME

1: Fed Ex

2: NGB 1/7/08

3: [redacted] Non-Responsive 1/8/08

METHOD: VIA: 1/10/08 1:00

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER

SPECIAL INSTRUCTIONS/COMMENTS

PROJECT INFORMATION

PROJECT NAME: Tupelo MS Armory

PROJECT #:

SITE ADDRESS: 104 Lamons Drive

SEND REPORT T [redacted] Non-Responsive

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 20

Turnaround Time Request

- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (with req.)
- ○ Other

STATE PROGRAM (if any):

E-mail? Y / N: Fax? Y / N

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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BULK SAMPLE DATA

For use of this form use USAEHA TG 141; the proponent is ESHB-I.O.

Return Address *(complete address including Zip Code)*: NGB-AVN-SE, 510 Plaza Dr Suite 1530, College Park GA 30349

Point of Contact *(name/AUTOVON)*:

Sampled Installation: Range Room, Tupelo Armory (104 Lemons Drive)

Project Number:

ARLOC:

Samples Collected By: Non-Responsive

Date Collected: 20 Dec 2007

Date Shipped:

Description of Operation: Lead Sampling of Indoor Range

Location *(BLDG/AREA)*: Indoor Range Room

Associated Complaints *(be specific)*:

Associated Air Samples: NONE If yes, list sample numbers

Label Information:

Trade Name:

NSN:

Manufacturer:

Address:

MSDS Attached: ☐ Yes ☑ No

Analysis Desired:

Lab Use Only	Sample No.	Constituents	Results	Remarks
	1	Top left wall		1'x1' Sample Area
	2	Middle Left wall		"
	3	Bottom Left Wall		"
	4	Top Left Bullet Stop End		"
	5	Middle Bullet Stop End		"
	6	Bottom Right Bullet Stop End		"
	7	Top Right Wall		"

Comments to Lab:

Lab Use Only

Analyst *(initials)*	Reviewed *(initials)*	Date Received	Date Reported

Procedures Performed:

Comments:

AEHA Form 8-R, 1 Oct 84

Replaces AEHA Form 8, 1 Oct 80 which is obsolete.

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BULK SAMPLE DATA

For use of this form use USAEHA TG 141; the proponent is ESHR-I.O.

Return Address *(complete address including Zip Code)* Point of Contact *(name/AUTOVON)*

NGB-AVN-SI
510 Plaza Dr Suite 1530
College Park, GA 30349

Sampled Installation: Range Room (104 Lomond Drive) Tupelo Armory

Project Number:

ARLOC:

Samples Collected By: Non-Responsive

Date Collected: 20 Dec 2007

Date Shipped:

Description of Operation: Lead Sampling of Indoor Firing Range

Location *(BLDG/AREA)*: Indoor Range Room

Associated Complaints *(be specific)*:

Associated Air Samples: NONE If yes, list sample numbers

Label Information

Trade Name:

NSN:

Manufacturer:

Address:

MSDS Attached: ☐ Yes ☐ No

Analysis Desired:

Lab Use Only	Sample No.	Constituents	Results	Remarks
	8	Middle Right Wall		1'x 1' sample area
	9	Bottom Right Wall		" "
	10	Bottom Rear Wall		" "
	11	Blank (control sample)		" "
	12	Top Rear Wall		" "
	13	Floor Right Bullet Stop		" "
	14	Floor Center		" "

Comments to Lab:

Lab Use Only

Analyst *(initials)*	Reviewed *(initials)*	Date Received	Date Reported

Procedures Performed:

Comments:

AEHA Form 8-R, 1 Oct 84

Replaces AEHA Form 8, 1 Oct 80 which is obsolete.

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BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is NGB-LO.

Return Address (complete address including Zip Code):
NGB-AVN-SI
510 PLAZA DR SUITE 1530
COLLEGE PARK, GA 30349

Point of Contact (name/AUTOVON):

Sampled Information:
Range Room
Tupelo Armory

Project Number:

ARLO:

Non-Responsive

Date Collected: 20 Dec 2007

Date Shipped:

Description of Operation: Indoor
LEAD SAMPLING OF FIRING RANGE

Location (Bldg/Area): Indoor Range Room

Associated Complaints (be specific):

Associated Air Sampler: If yes, list sample numbers
☐ Yes ☐ No NONE

Label Information

Trade Name:

Manufacturer:

Address:

MSDS Attached: ☐ Yes ☐ No

Analysis Desired
LEAD

Lab Use Only	Sample No.	Constituents	Results	Remarks
	15	Floor Left Rear Wall		1' X 1' Sample Area
	16	Ceiling Left Bullet Stop		" "
	17	Ceiling Center		" "
	18	Ceiling Right Rear Wall		" "
	19	Middle Rear Wall		" "
	20	Blank (Control Sample)		
	21			

Comments to Lab:

Lab Use Only

Analyst Initials: Reviewed by (Initials): Date Received: Date Reported:

Requested Completed: Comments:

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army National Guard Work Order Number 0801547

Checklist completed by [redacted] 1/11/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client __ US Mail ✓ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* mail 1/10/08 Yes ✓ No __

Cooler #1 Ambo Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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LAE CONSULTING
1218 Scattered Pines Court, Severn, MD. 21144
Tel: (410) 551 2717

11 March 2009

MEMORANDUM FOR Commander, A Troop 1-230th [illegible], 104 Lemons Drive, Tupelo, Mississippi, 38801

SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

1. References.

a. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

b. AR 40-5, Preventive Medicine, 15 October 1990.

c. AR 385-10, 23 May 1988, Army Safety Program.

d. TB MED 503, The Army Industrial Hygiene Program.

e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

f. IES Lighting Handbook, Application Volume 1981, Illumination Engineering Society of North America.

g. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio

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SUBJECT: Industrial Hygiene Survey of Claude F. Clayton Armory, Tupelo, MS

2. Purpose. The purpose of this survey was to conduct a baseline Industrial Hygiene survey of the Claude F. Clayton Armory, Tupelo, MS. The baseline is to include sound level, lead evaluations, and illumination surveys. The facility was visually examined and the various personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, Non-Responsive of LAE Consulting conducted an industrial hygiene survey of the Claude F. Clayton Armory, Tupelo, MS, SC on 10-11 March 2009.

4. Report. A final report will be sent to the Commander of the 155th Heavy Brigade Combat Team HBCT at the Tupelo Armory. The 155th is the parent organization of this Armory. Sound levels were measured on three vehicles operated by A Troop 1-230 ACS. Sound levels were annotated on DD 2214, and provided to personnel of the Alpha Troop.

5. Technical Assistance. For technical assistance, regarding information found in this report, please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office, Non-Responsive Non-Responsive.

Non-Responsive

Encl
DD2214, Noise Survey

LAE Consulting

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May, 2018

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View of the Claude F. Clayton Armory, Tupelo, MS

View of the Claude F. Clayton Armory, Tupelo, MS

Interior view of the Claude F. Clayton Armory Drill Hall

View of the Armory Motorpool

View of the unit's Hazardous Material storage containers

View of the only air handler unit with a filter

View of an air handler without an air filter

View of corrosion on the exterior of a air handler

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View of soiled air diffuser

View of stained ceiling tiles in room 160

View of stained ceiling tile and dirty return air grill

View of 1-185th Aviation unit TOE storage room

View of 1-185th Aviation unit TOE storage room

View down range of the deactivated Indoor Firing range

View up range of the deactivated Indoor Firing range

View of Lead wipe sample 1-4, located at the backstop area of the range

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View of the debris located in the range Pit

Closer view of the debris in range Pit

View of Lead wipe sample 1 and 2, located on the range back stop

View of Lead wipe sample 2,3,4, located on the backstop of the range

View of Lead wipe sample 3, Located on the right metal deflector of the backstop

View of Lead wipe sample 4, located on the floor deflector right side

View of Lead wipe sample 4, located on the floor deflector right side

View of Lead wipe sample 5, located on the left wall 6 feet up block wall

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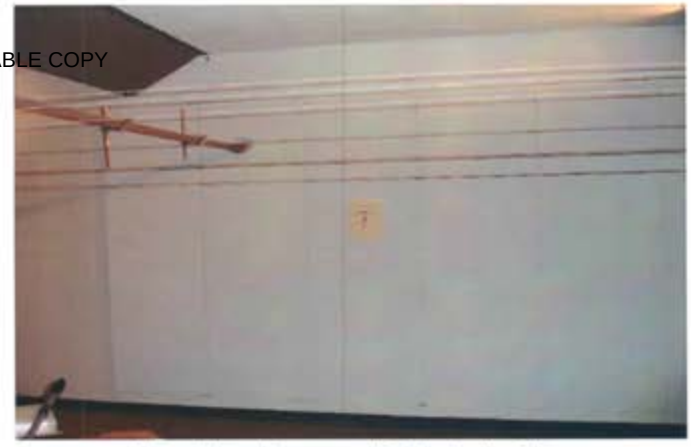
View of Lead wipe sample 6, locatd on floor 2 feet from left wall



View of Lead wipe sample 7, located on the right wall panel 3 uprange 5 feet up wall

View of lead wipe sample 8, located on the center of range floor at the floor drain.

View of Lead wipe sample 9, located left side of accoustic wall panel 9 uprange 6.5 feet up panel

View of lead wipe sample 10, located on the floor 4 feetfrom left wall between panel 10 and 11

View of Lead wipe sample 11, located on the floor right side adjacent to wall outlet

View of lead wipe sample 12, located on the observation wall (range side)

View of lead wipe sample 13, located on the observation wall (range side)

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View of Lead wipe sample 14, located on the floor of range, 4 feet from Observation roomfront of electric outlet

View of lead wipe sample 15, located on the floor of Observation room in front of exhaust system

View of lead wipe sample 16, located on wall of Observation room 5 feet up wall and 9 feet from exit

View of lead wipe sample 17, located on the floor in hallway 1 ft between observation room and range

View of lead wipe sample 18, located on top of snack vending machine in the Drill Hall

View of Lead wipe sample 19, located on top of the serving line table

View of sign on door of the observation

Interior view of the Observation room

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View within the Observation room

View of the range exhaust located in the Observation room

View of the tankless hot water tanks recently installed by plumbling contractors in the observation room

View of Drill Hall

View of the Drill Hall. Material on the floor is Floor Sweep

View of Drill Hall

View of Drill Hall

View of Armory Kitchen

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View of Kitchen

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NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

27 June 2010

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.

Thru: Non-Responsive DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Waver for conversion of Indoor Firing Range, Tupelo, MS.

1. At the request of MS ARNG Occupational Health Office, Industrial Hygiene Lead Sampling was conducted at this Indoor Firing Range following application of sealant by contract vendor. Twenty sampled were collected and submitted for testing of Total Lead. Of those twenty samples, two blanks were included. All samples returned by the lab after analysis were bellow less than 200 µg/ft².

2. Samples were collected in accordance with National Guard Bureau Pamphlet 420-15. Ghost Wipe™ is pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

3. The surface samples were collected by placing a 1 square foot sampling template on the surface area and wiping the outlined area with a Ghost Wipe™. After the area inside the template was wiped, each individual sampling media was placed into separate, labeled re-sealable plastic bags and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected, three from each surface area for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipes were opened placed into a re-sealable bag and submitted as blank samples for analysis.

4. Even though no lead wipe sample was above 200 µg/ft² the areas were not sampled before application of lead encapsulating material, and a determination can not be made of whether the thickness or number of coats of the encapsulation product meets the manufacturer's requirement to achieve the levels established by ASTM 1795-04, the area could be used for storage only. Further, upon completion of conversion, this range is to be used only for storage as initially planned. Pregnant females or children cannot utilize this space in any capacity. No items should be stored in this space that is intended for use by children. There is no assurance that the standard for gestational females and children of less than 40 µg/ft² was met prior to the application of sealant. In addition, this range, after conversion will need to be tested yearly in order to ensure lead has not leached.

5. Subject to the above given conditions and in accordance to NG Pam 420-15 paragraph 1-6 the waver to use this area as storage, meeting the above requirements is granted.

Non-Responsive

CF: NGB-ARS-IHSE
Non-Responsive, State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

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MISSISSIPPI ARMY NATIONAL GUARD
(MS ARNG)

TUPELO ARMY NATIONAL GUARD ARMORY
INDOOR FIRING RANGE
2705 WEST JACKSON STREET
TUPELO, MISSISSIPPI 38801

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Industrial Hygiene Report
For
Mississippi Army National Guard
(MS ARNG)

At
Tupelo Armory National Guard Armory
Indoor Firing Range
2705 West Jackson Street
Tupelo, Mississippi 38801

Prepared for:
Department of the Army and Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

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SUBJECT:
Indoor Firing Range Lead Wipe Report for the Mississippi Army National Guard's Tupelo Armory Indoor Firing Range located at 2705 West Jackson Street, Tupelo, Mississippi.

BACKGROUND:

Introduction:
At the request of Non-Responsive of the Army National Guard Bureau Region South Industrial Hygiene Office, lead wipe sampling was performed in the MS ARNG Tupelo Armory's Indoor Firing Range.
The main Point of Contact during the sampling process was Non-Responsive from the MS ARNG State Headquarters. She can be reached telephonically at Non-Responsive.

Site Description:
The Tupelo Indoor Firing Range has been cleaned prior to taking the lead wipes. All equipment has been removed form the range. The range walls, ceiling, and floor are all constructed of concrete. The Bullet trap has been removed and the only ventilation system present is the louver system behind the original firing line (see photograph #5). The firing range appeared to be very clean during the lead wipe sampling process.
The range dimensions are: Length = 78'; Width = 23'; and Height = 10'

Scope of Work:
Instructions were to take a minimum of eighteen (18) wipe samples throughout the indoor range area. Samples were taken on all four walls, the floor and the ceiling. A total of eighteen samples ad two blanks were completed for the Tupelo Indoor Firing Range.

Methodology:
Eighteen (18) lead wipe samples were taken in the indoor firing range. Individual 1' X 1' templates were utilized for each of the 18 samples. Ghost wipes were utilized as the medium for potential lead collection.
Individual/separate pairs of latex gloves were utilized for each individual sample to prohibit possible cross-contamination of the individual samples. Individual samples were placed in their respective separate containers and labeled for sample identification purposes.

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Samples taken from the four walls were accomplished by taking three individual samples (one at the bottom of the wall; one midway along and up the wall; and one at the top end of the wall). The three ceiling samples were taken diagonally across the ceiling. The same held true for the three floor samples. See the range and sample identification diagram in Appendix A of this report for further clarification.

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FINDINGS:

All of the lead wipe samples in the Tupelo Indoor Firing Range tested below the action level of 200ug/sq.ft. There were two samples that actually breached the reporting limit of 20ug/sq.ft.

Sample #00-16L (taken on the floor of the range by the left wall and bullet trap wall) indicated 63ug/sq.ft.

Sample #00-18L (taken on the floor of the range by right wall and bullet trap wall) indicated 76ug/sq.ft.

The range appeared to be in excellent condition and very clean.

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APPENDICES

A. INDOOR FIRING RANGE DIAGRAM WITH WIPE SAMPLE AREAS
B. LEAD WIPE SPREADSHEET
C. MEMO AND FORM SUBMISSION TO LABORATORY
D. LABORATORY RESULTS
E. RANGE PHOTOGRAPH INDEX AND PHOTOGRAPHS

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APPENDIX A
INDOOR FIRING RANGE DIAGRAM
WITH WIPE SAMPLE AREAS

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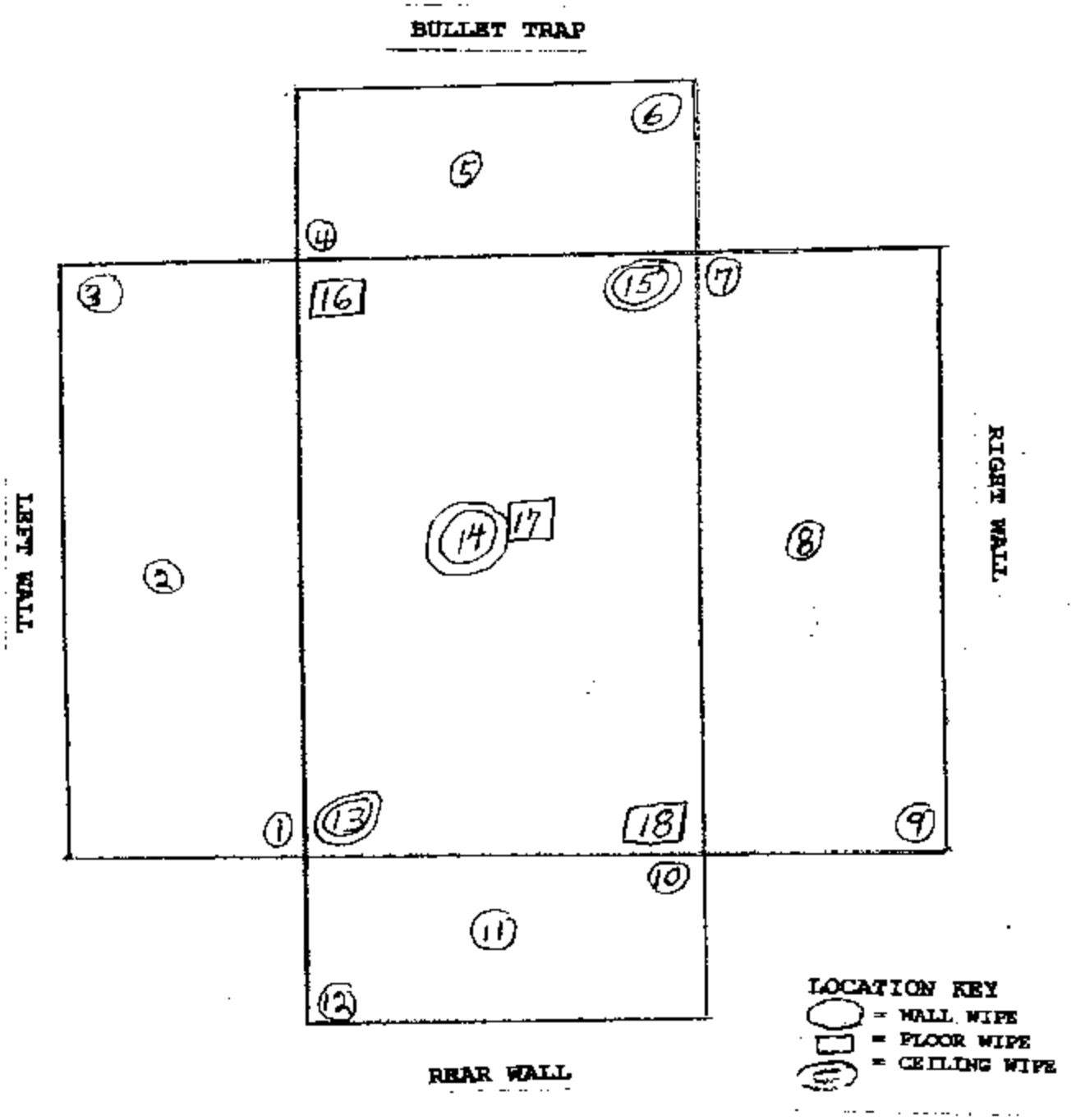
MS ARNG TUPELO
INDOOR FIRING RANGE
LEAD WIPE DIAGRAM



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APPENDIX B
LEAD WIPE SPREADSHEET

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Analytical Environmental Services, Inc

Date: 14-Jun-10

Lab Order: 1006835
Client: HTNCHCO
Project: MS Ang - Tupelo Armory Firing Range
Matrix: Wipe
Date Received: 6/9/2010 3:20:00 PM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1006835-001A	00-00L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-002A	00-19L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-003A	00-01L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-004A	00-02L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-005A	00-03L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-006A	00-04L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-007A	00-05L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-008A	00-06L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-009A	00-07L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-010A	00-08L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-011A	00-09L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-012A	00-10L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-013A	00-11L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-014A	00-12L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-015A	00-13L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-016A	00-14L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-017A	00-15L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-018A	00-16L	63	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-019A	00-17L	BRL	µg/ft²	20	1		06/03/2010	06/10/2010	MW
1006835-020A	00-18L	76	µg/ft²	20	1		06/03/2010	06/10/2010	MW

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Hinch Co Work Order Number 1006835

Checklist completed by Non-Responsive Sig[redacted] Date 6/9/10

Carrier name: FedEx __ UPS ✓ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 AMBIENT Cooler #2 _____ Cooler #3 6/9/10 Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace? No VOA vials submitted ✓	Yes __	No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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APPENDIX E
RANGE PHOTOGRAPH INDEX
AND
PHOTOGRAPHS

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TUPELO RANGE PHOTOGRAPHS

#1 – TUPELO ARMORY

#2 – INDOOR RANGE, LOOKING DOWN RANGE

TUPELO RANGE PHOTOGRAPHS

#3 – INDOOR RANGE, LOOKING TOWARD FIRING LINE

#4 – FLOOR DRAIN MID RANGE

TUPELO RANGE PHOTOGRAPHS

#5 – VENT SYSTEM, BEHIND FIRING LINE

*****

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LEAD WIPE SAMPLE SPREADSHEET FOR
MS ARNG TUPELO ARMORY
INDOOR FIRING RANGE
3 JUNE 2010

DATE	SAMPLE #	LOCATION	SAMPLE FOR:
3 JUN 10	00-00L	BLANK	LEAD
3 JUN 10	00-01L	LEFT WALL, BOTTOM, BY REAR WALL	LEAD
3 JUN 10	00-02L	LEFT WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-03L	LEFT WALL, TOP, BY BULLET TRAP WALL	LEAD
3 JUN 10	00-04L	BULLET TRAP WALL, BOTTOM, BY LEFT WALL	LEAD
3 JUN 10	00-05L	BULLET TRAP WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-06L	BULLET TRAP WALL, TOP, BY RIGHT WALL	LEAD
3 JUN 10	00-07L	RIGHT WALL, BOTTOM, BY RIGHT WALL	LEAD
3 JUN 10	00-08L	RIGHT WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-09L	RIGHT WALL, TOP, BY REAR WALL	LEAD
3 JUN 10	00-10L	REAR WALL, BOTTOM, BY RIGHT WALL	LEAD
3 JUN 10	00-11L	REAR WALL, MIDDLE, 5' HIGH	LEAD
3 JUN 10	00-12L	REAR WALL, TOP, BY LEFT WALL	LEAD
3 JUN 10	00-13L	CEILING, BY REAR WALL AND LEFT WALL	LEAD
3 JUN 10	00-14L	CEILING, MIDDLE	LEAD
3 JUN 10	00-15L	CEILING, BY RIGHT WALL AND BULLET TRAP WALL	LEAD
3 JUN 10	00-16L	FLOOR, BY LEFT WALL AND BULLET TRAP WALL	LEAD
3 JUN 10	00-17L	FLOOR, MIDDLE	LEAD
3 JUN 10	00-18L	FLOOR, BY RIGHT WALL AND BULLET TRAP WALL	LEAD
3 JUN 10	00-19L	BLANK	LEAD

ALL WIPE SAMPLES TAKEN WITH A 12" X 12" (1 sq.ft.) TEMPLATE

GHOST WIPES WERE UTILIZED AS THE COLLECTION MEDIUM

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APPENDIX C
MEMO AND FORM SUBMISSION TO LABORATORY

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TO: 05 JUNE 2010
ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 PRESIDENTIAL PARKWAY
ATLANTA, GEORGIA 30340-3704

FROM:
Non-Responsive
d/b/a HINCHCO
P.O. BOX 3083
18 BOAT COURT
PLACIDA, FLORIDA 33946

SUBJECT: LEAD WIPE SUBMISSIONS FOR MS ARNG, TUPELO ARMORY INDOOR FIRING RANGE

GENTLEMEN:
I AM ENCLOSING YOUR FORMS, MY SPREADSHEET, FIRING RANGE DIAGRAM, THE SAMPLES, AND THIS MEMORANDUM.

PLEASE SEND THE RESULTS TO MY E-MAIL ADDRESS:
Non-Responsive.

BILLING FOR ANALYSIS SHOULD BE SENT TO NGB INDUSTRIAL HYGIENE REGION SOUTH IN COLLEGE PARK, GA.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME TELEPHONICALLY AT Non-Responsive OR AT THE ABOVE MENTIONED E-MAIL.

SINCERELY,
Non-Responsive

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: [redacted] Contact: [redacted]
Address: [redacted] Phone:
Placida, FL 33946 Email/Fax:

Project Name/#: MSARNG – Thoelo Armory Firing Range
Samplers Name: [redacted]
Sampling Date: 3 June 2010

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	NUMBER	FLOW RATE START	FLOW RATE END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00-00L	Blank						Ghost	Wipe	Lead
00-19L	Blank								
00-01L	Left wall								
00-02L	Left wall								
00-03L	Left wall								
00-04L	Bullet Trap Wall								
00-05L	Bullet Trap Wall								
00-06L	Bullet Trap Wall								
00-07L	Right Wall								
00-08L	Right Wall								
00-09L	Right Wall								
00-10L	Rear Wall								
00-11L	Rear Wall								
00-12L	Rear Wall								
00-13L	Ceiling								
00-14L	Ceiling								
00-15L	Ceiling								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:	[redacted]	Date/Time	7 JUN 10 / 0830
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

Non-Responsive
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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Pkwy, Atlanta, GA 30340-3704
Tel.: (770) 457-8177 (800) 972-4889
www.aesatlanta.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client Name: HINCHCE
Address: PO Box 3083
Placida, FL

Contact: [redacted]
Phone:
E-M
~~Fax:~~

Project Name/#: MS ARNG - Tupelo Armory Firing Range
Samplers Name: [redacted]
Sampling Date: 3 June 2010

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	NUMBER	START	END	FLOW RATE INITIAL	FLOW RATE FINAL	FLOW RATE AVG	VOLUME	ANALYSIS REQUESTED/REMARKS
00-16L	Floor						Ghost	Wipe	Lead
00-17L	Floor								
00-18L	Floor								

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments:

Relinquished By:	[redacted]	Date/Time	7 June 10 / 0830
Received By:		Date/Time	
Relinquished By:		Date/Time	
Received By:		Date/Time	

Delivered Direct to Lab: ☐ Shipped: ☒
Method of Shipment: UPS
Lab Recipient:
Date:

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APPENDIX D
LABORATORY RESULTS

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 14, 2010

Non-Responsive

HINCHCO
PO BOX 3083
Placida FL 33946

TEL: (217) 341-3796
FAX:

RE: MS Arng - Tupelo Armory Firing Range

Dear Non-Responsive

Order No: 1006835

Analytical Environmental Services, Inc. received 20 samples on 6/9/2010 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) July 3, 2012

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted] ARNG Vicksburg Armory, 1364 Armory Rd Vicksburg, MS 39183.

Thru: Non-Responsive [redacted], DDS NG MSARNG, 1420 Raymond Road, Box G, Jackson, MS 30204.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Vicksburg Armory, Vicksburg, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field

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surveys and industrial hygiene sampling at the MS ARNG Vicksburg Armory, Vicksburg, Mississippi.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

   a. Have all HHIM data entered into the HHIM computer module.

   b. Use the report to help in correcting all deficiencies noted.

   c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

   d. Contact the State Occupational Health Office, Non-Responsive, for any medical Surveillance that may be needed.

   e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF: Non-Responsive State Safety Manager, 1410 Riverside DR, Jackson, MS 39202.
te Occupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
CFMO MS ARNG, 2497 N. West Street, Jackson, MS 39216.

ENCL.
as

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INDUSTRIAL HYGIENE SURVEY REPORT
FOR
Non-Responsive
MISSISSIPPI ARMY NATIONAL GUARD
(MSARNG)
1364 ARMORY RD
VICKSBURG, MS 39183

Thru

Non-Responsive, Region South
Industrial Hygiene Office, 510 Plaza Drive, Suite 1530,
College Park, GA 30348

By:

Non-Responsive Inc.
107 Orchard St
Walden, NY 12586
Ph. Non-Responsive

09MAY2012

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1.0 INTRODUCTION:

At the request of Non-Responsive of the National Guard Bureau (ARNG) Region South Industrial Hygiene Office, Non-Responsive [redacted] IH Surveying Inc. conducted a Baseline Industrial Hygiene Survey and walk through evaluation at the Mississippi ARNG armory located at 1364 Armory Rd Vicksburg, MS on May 9th, 2012. The purpose of the survey was to evaluate health hazards and controls present in the workplace, collect bulk samples and or wipe samples (if necessary) to determine lead or asbestos exposures, perform illumination, ventilation and noise surveys, and make recommendations regarding health hazards associated with work at the site.

The facility was visually examined and site personnel interviewed regarding work activities, and type of materials/chemicals used during typical/atypical workdays, or stored on site.

Pre and Post Industrial Hygiene survey reports were held with Non-Responsive [redacted] who was the assigned POC for the Vicksburg Armory.

The writer would like to acknowledge the assistance and cooperation extended to him by site's population in general, and takes this opportunity to express his gratitude to all personnel.

2.0 FACILITY DESCRIPTION

This is a two story building which was constructed of concrete blocks with a brick outer layer. The building contains numerous offices, a conference room, classrooms; two weapon vaults, male and female latrines, a kitchen, a maintenance building, supply rooms and utility closets. Flooring throughout the building is a combination of carpeting, tiles and or concrete. All walls are either painted or have paneling on them. There is a firing range in the building located by the drill hall. The POC states the range has never been used.

3.0 INSTRUMENTATION

The following instrumentation and/or sampling media were provided by the contractor and where necessary were used to obtain lead wipe samples, asbestos bulk samples, paint chip samples illumination and noise measurements.

TSI 8551	IAQ Meter	S/N 47116	calibrated on 08/17/2011
EXTECH 401025	Light Meter	S/N L570331	calibrated on 06/02/2011
Quest Q2700	Sound Level Meter	S/N HU3120048	calibrated on 08/05/2011
Quest QC-10	Calibrator w/Adapter	S/N QE4100294	calibrated on 08/05/2011

"Ghost wipes" lead dust wipes no expiration date

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4.0 FINDINGS

4.1 Office Spaces.

Offices spaces are mostly equipped with the same furnishings. Desks, chairs, computer stations and are adjusted for ergonomic balance. While interviewing the employees at the armory that day, it appears that the temperature and humidity are satisfactory working conditions. There is no sign of mold or water damage on the floors or walls. The HVAC system effectively monitors and controls temperature and humidity. The offices appeared to be neat and orderly. There were large amounts of ceiling tiles, especially on the second floor that are damaged and need to be replaced. This is from constant exposure to water dripping from a pipe between the ceiling and roof. This water can be traced from the HHC side of the building to the 114th side of the building. There were no signs of mold at the time of this survey.

The orderly room for the 114th and the wall going up the left hand staircase, to the second level of the armory show signs of termite damage. The POC states that an exterminator has treated the staircase wall, but has yet to come back and treat the problem in the 114th orderly room.

4.2 Latrines/locker rooms

The latrines appeared in good condition. They were well lit, clean and in working order. No outstanding issues needed to be addressed at the time of the survey.

4.3 Kitchen

The kitchen was in need of light housekeeping. There was some debris under the kitchen equipment. The common latrine located in the kitchen was out of order.

4.4 Conference Room/DLC

The conference room/distance learning center (DLC) floor was a theater style room with carpeting on the floor. The walls were concrete block and painted. The room appeared in excellent condition. There were numerous tables and chairs on each tier.

4.5 Classrooms

The classrooms were clean and orderly.

4.6 Supply rooms

The supply rooms had no visible signs of water damage or pest problem. They were neat and orderly. Lead swipe samples were taking in these areas, since it is where weapons were issued and returned.

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4.7 Vault

There were two weapon vaults at Vicksburg. One belonging to HHC the other to the 114th. Lead swipe samples were taking inside and outside each vault. Below is the chart showing those areas that registered over 20ug.total.

Area Sampled	Results over 20ug.total
HHC Vault floor inside	33 ug.total
HHC floor outside the vault	3360 ug.total
114th Weapons Rack	45 ug.total
114th vault floor	40 ug.total

4.8 Drill Hall

The facility's drill hall has a concrete floor and concrete block walls. The inside of the roof seemed great condition at the time of the survey. There were a few birds nesting inside the drill hall. The POC states that bay door is open most of the time. This is the cause for so many birds inside. There were two balcony sections located here and both were in need of housekeeping. There were large amounts of bird dropping on the balconies. This could pose a respiratory health hazard. Between the lighting fixtures and the bay doors open, illumination standards were met or exceeded for a space this large.

4.9 Maintenance Building

The maintenance building is a brick building. The POC states there in no maintenance performed at this facility other than PMCS. The building needs general housekeeping. Bird droppings and tar were evident all over the floor; this could pose a respiratory health hazard.

5.0 Sampling

5.1 Noise Level

Readings throughout the main facility and the out buildings measured between 50 to 70 decibels "slow A scale". The only measureable noise was the video conference call in session and the background noise that could be heard in the outer buildings.

5.2 Radiation

Not applicable

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5.3 Asbestos

No samples were taken at this site.

5.4 Illumination

The average illumination in the offices, conference room and classrooms was 53.6. See the table below for illumination values. These values show that some areas do not meet the recommended illumination standard. The following table reflects foot candle measurements noted during this survey.

Location	Foot Candles		IES Recommended Values
Offices, classrooms, conference rm	Average 67		50-100
Men's Latrine	Average 28		05/10/10
Ladies latrine	Average 28		05/10/10
Kitchen	Average 31		50/100
Drill Hall	Average 65	Bay door open	10/20/10
Vault	Average 28		10/20/11
Supply Rooms	Average 54	Bay door open	10/20/11
Maintenance Bay	Average 43	Bay door open	10/20/11

Recommended values from IES Lighting Handbook Application Volume 1987

6.0 Indoor Air Quality (IAQ)

Based on interviews, measurements and observations overall there is no technical or instrumental basis for IAQ concerns in this facility. No evidence of mold, extreme particulate build up or condensation on walls or floors. There are obvious roof leaks. Throughout the building the average temperature was 73.7 (DF) and the average humidity was 61.3. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 60% year round. Elevated humidity could promote growth of mold, bacteria and dust mites which can aggravate allergies and asthma. Carbon dioxide levels were very low and are a measure as to whether adequate volumes of fresh outdoor air are being introduced to indoor air. Outdoor levels of Carbon dioxide are usually 300-400 parts per million and indoor levels should be between 600-800 parts per million. The carbon dioxide levels in this facility did not exceed 432 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment.

6.1 Ergonomics

Evaluation was on work areas such as computer location, chair type, desk height, line of vision and angles of hands and fingers. Interviews with ARNG members indicated no concerns at this time in this area of the survey.

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6.2 Hazardous Materials

Materials used at this armory are standard in most armory sites. Haz-mat inventories are posted appropriately.

7.0 Indoor Firing Range

According to the POC the indoor firing range at this facility has never been used. Samples were taken and the results show all samples below the reporting limit.

8.0 Technical Assistance

For technical assistance regarding information found in this report, please contact [redacted] Non-Responsive of the Southeast Regional Industrial Hygiene office at [redacted] Non-Responsive

8.1 References

Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA)

AR 40-5, Preventive Medicine, 25 May 2007.

AR 385-10, 29 February 2000, Army Safety Program.

TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, And Biological Exposure Indices (BEI's), 2009, ACGIH, Cincinnati Ohio

Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio

AR 11-34 Army Respiratory Protection Program, 15 February 1990

DA Pam 40-501, Hearing Conservation Program, 10 December 1998

NFPA 10: Standard for Portable Fire Extinguishers

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ATTACHMENT 1

RECOMMENDATIONS

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Based on interviews with the POC and other personnel as well as observations by Erik Miller IH Surveying Inc. staff and IAQ measurements, it appears the overall condition of this facility is in good condition, except for some ceiling tile damage by roof leaks and housekeeping needs.

All areas that show a lead reading above 20ug.total should be addressed immediately. These areas should be cleaned and sampled again. ***RAC 1***

Numerous ceiling tiles need to be replaced, the piping between the ceiling and the roof needs to be insulated as to halt the condensation ruining the ceiling tiles. ***RAC 2***

Drill Hall balconies need to housekeeping. The bird dropping pose as a potential respiratory hazard ***RAC 2***

Termites' infestation needs to be treated before it spreads throughout the structure.

RAC 1

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ATTACHEMENT 2

PHOTOS

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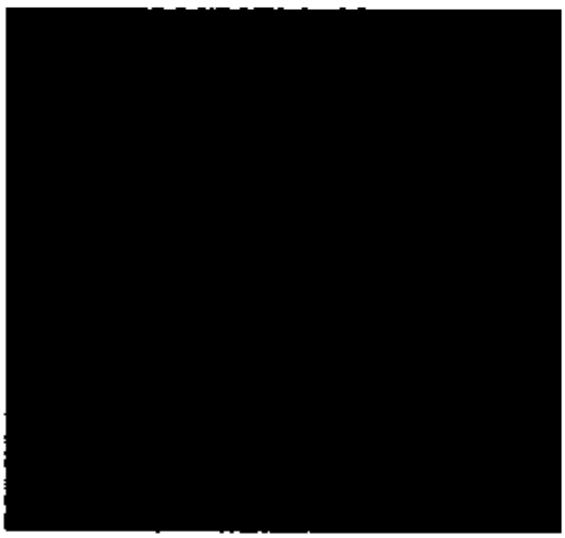
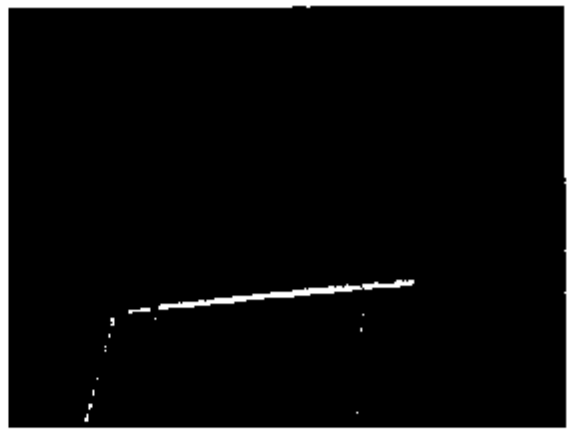
Storage Area: Clean and Organized

HHC Weapons Vault: lead swipe samples taken

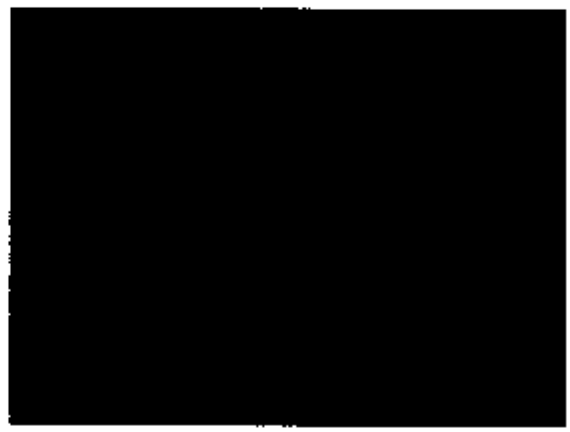


Termite damage on stair case wall



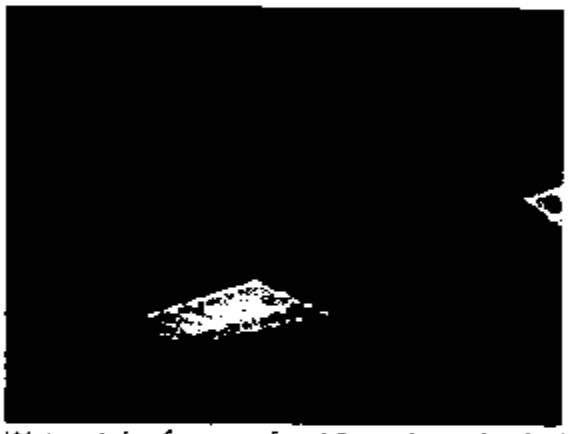
Water stains from roof or AC condensation leak runs the length of the second floor

Water stains from roof or AC condensation leak runs the length of the second floor



Termite damage in 114th Orderly room

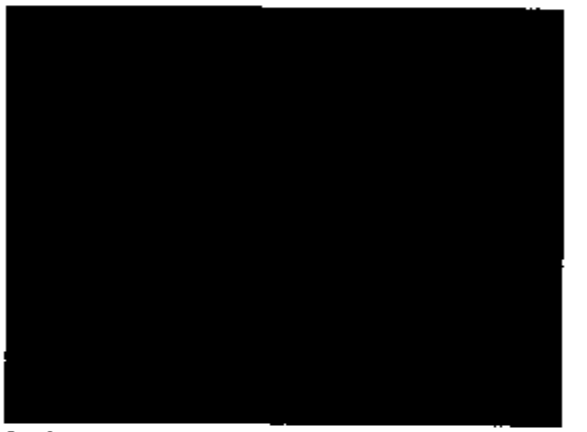
Water stains from roof or AC condensation leak runs the length of the second floor



Water stains from roof or AC condensation leak runs the length of the second floor

Water stains from roof or AC condensation leak runs the length of the second floor

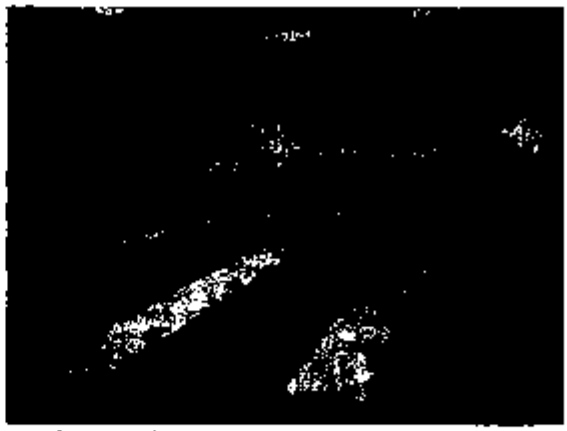
Classroom, missing or damage ceiling tiles



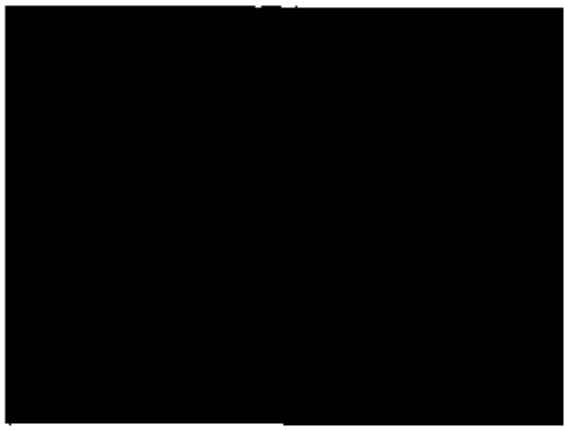
Broken Drain cover: tripping hazard

Insulation intact, no fraying or cracking

Gym: Clean and orderly



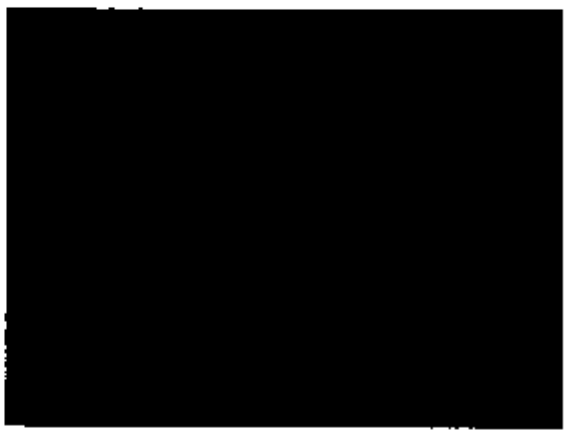
Conference/training room



Water damage to ceiling tiles

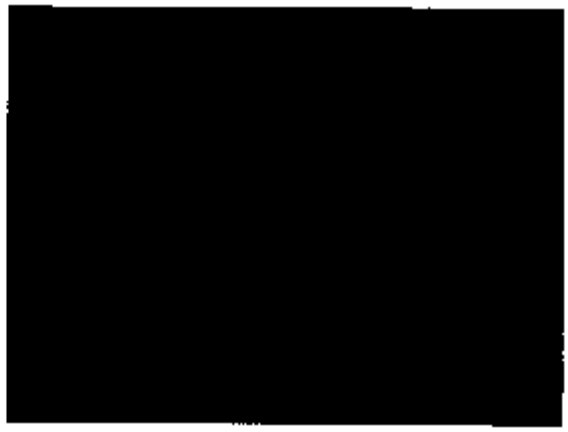
Ceiling tile missing

Water damage to ceiling tiles



Water damage to ceiling tiles

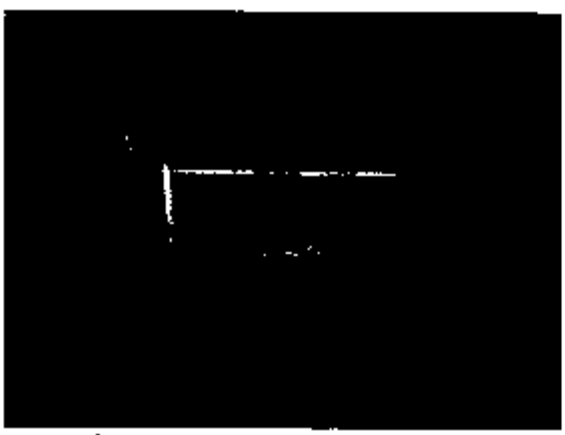
Dining facility clean and orderly



Water damage to ceiling tiles

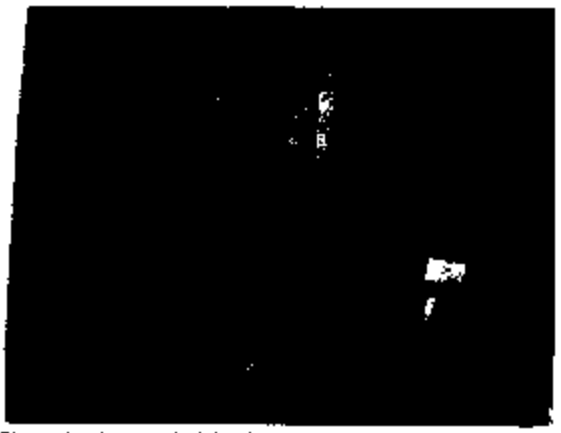
Floor drain/Trap needs housekeeping

Cooper pipe not insulated and drips when used



Indoor firing range: Facility Manager states it was never used

Parking area and storage buildings



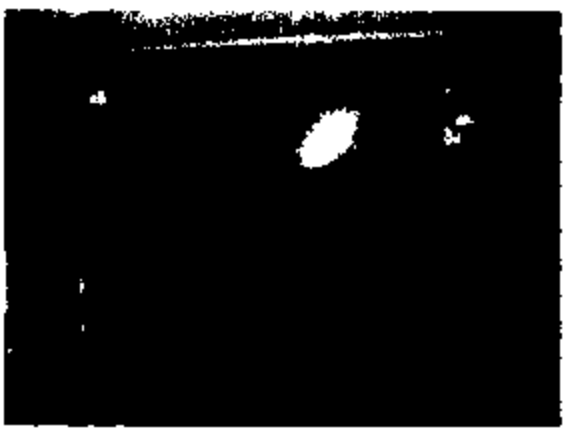
Electrical panels blocked by equipment

Missing ceiling tile

Flammable storage cabinet: MSDS located outside door

Broken electric cable located by oil/water separator

Maintenance bay: used for PMCS only



Balcony storage area in Drill hall: Needs Housekeeping

Drill Hall: ceiling and paint in good condition

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

May 18, 2012

Non-Responsive
[redacted] Bureau Region-South IH
510 Plaza Drive
College Park GA 30349

TEL: Non-Responsive
FAX: [redacted]

RE: Vicksburg Armory

Dear Non-Responsive [redacted]

Order No: 1205B10

Analytical Environmental Services, Inc. received 14 samples on 5/11/2012 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205B10 ~~1205A~~ B10 BM SA

Date: 5/9/12 Page 1 of 1

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530 College Park GA 30349

PHONE: [redacted] Non-Responsive

FAX:

SAMPLE [redacted]

SIGNATURE [redacted] Non-Responsive

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	001VIC 050912 HHC	5/9/12	0200	X				VAULT FLR	
2	002VIC 050912 HHC			X				VAULT DOOR IN	
3	003VIC 050912 HHC			X				VAULT WALL	
4	004VIC 050912 HHC			X				FLOOR OUT VAULT	
5	005VIC 050912 114TH			X				VAULT WALL	
6	006VIC 050912 114TH			X				WEAPON RACK	
7	007VIC 050912 114TH			X				VAULT DOOR IN	
8	008VIC 050912 114TH			X				VAULT DOOR OUT	
9	009VIC 050912			X				BLANK	
10	010VIC 050912			X				IFR FLOOR	
11	011VIC 050912 114TH			X				VAULT FLOOR	
12	012VIC 050912 HHC			X				COUNTER OUT VAULT	
13	013VIC 050912			X				IFR WALL FAR	
14	014VIC 050912	5/9/12	0936	X				IFR WALL	

RELINQUISHED BY: [redacted] Non-Responsive DATE/TIME 5/9/12

REC[redacted] Non-Responsive DATE/TIME 1: [redacted] 5/11/12 10:50 2: 3:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER

PROJECT INFORMATION
PROJECT NAME: Vicksburg Armory
PROJECT #:
SITE ADDRESS: ~~[illegible]~~ 1364 Armory Rd Vicksburg MS 39183
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IH OFFICE
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY: IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW = Wastewater DW = Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc

Date: 18-May-12

Lab Order: 1205B10
Client: National Guard Bureau Region-South III
Project: Vicksburg Armory
Matrix: Wipe
Date Received: 5/11/2012 10:30:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B10-001A	001VIC050912 HHC	33	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-002A	002VIC050912 HHC	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-003A	003VIC050912 HHC	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-004A	004VIC050912 HHC	3360	ug, Total	2000	100		05/09/2012	05/15/2012	MW
1205B10-005A	005VIC050912 114TH	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-006A	006VIC050912 114TH	45	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-007A	007VIC050912 114TH	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-008A	008VIC050912 114TH	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-009A	009VIC050912	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-010A	010VIC050912	BRL	ug, Total	20	1		05/09/2012	05/15/2012	MW
1205B10-011A	011VIC050912 114TH	40	ug, Total	20	1		05/09/2012	05/16/2012	MW
1205B10-012A	012VIC050912HHC	BRL	ug, Total	20	1		05/09/2012	05/16/2012	MW
1205B10-013A	013VIC050912	BRL	ug, Total	20	1		05/09/2012	05/16/2012	MW
1205B10-014A	014VIC050912	BRL	ug, Total	20	1		05/09/2012	05/16/2012	MW

Qualifiers: BRL - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GAARMY National Guard Work Order Number 1205810

Checklist completed by Non-Responsive [redacted] 5/14/12
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes __ No __ Not Present ✓

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? ~~(4°C±2)*~~ BM 5/14/12 Yes ✓ No __

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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FOIA Requested Record #J-15-0085 (MS)
Released by National Guard Bureau
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Analytical Environmental Services, Inc

Date: 18-May-12

Client: National Guard Bureau Region-South IH
Project: Vicksburg Armory
Lab Order: 1205B10

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205B10-001A	001VIC050912 RHC	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-002A	002VIC050912 RHC	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-003A	003VIC050912 RHC	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-004A	004VIC050912 RHC	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-005A	005VIC050912 114TH	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-006A	006VIC050912 114TH	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-007A	007VIC050912 114TH	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-008A	008VIC050912 114TH	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-009A	009VIC050912	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-010A	010VIC050912	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/15/2012	05/15/2012
1205B10-011A	011VIC050912 114TH	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B10-012A	012VIC050912HHC	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B10-013A	013VIC050912	5/9/2012 2:00:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B10-014A	014VIC050912	5/9/2012 9:36:00AM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI August 29, 2003

MEMORANDUM FOR: The Adjutant General of Mississippi, ATTN: Water Valley Armory Manager, 1001 Community Park Drive, Water Valley, MS 38965

SUBJECT: Transmittal of IH Survey Report of the Water Valley Armory in Water Valley, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sempling and Bulk sample Collection.

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NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Water Valley Armory in Water Valley, MS.

k. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

l. Report dated 15 August 2003, Industrial Hygiene Survey, Non-Responsive of Tamar Industrial Hygiene Consulting.

2. General.

a. At the request of the MS ARNG Safety and Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling of the Water Valley Armory in Water Valley, MS.

b. The surveys were conducted by Non-Responsive of Tamar Industrial Hygiene Consulting, Naperville, IL

3. Findings. All HHIM field survey forms and survey findings of the report. (See enclosure 1)

4. Recommendations.

a. Follow all recommendations made in reference 1.l., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Control water infiltration in the armory and/or replace or repair damaged surfaces or components (ceiling and floor tiles). Building conditions that present IAQ concerns or problems not only exacerbates normally minor health issues but also tend to promote or accelerate building deterioration.

c. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-03. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-04 IHIP.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Water Valley Armory in Water Valley, MS.

f. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

5. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive

Non-Responsive

Regional Industrial Hygienist

CF:
NBG-AVN-SH
State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.
State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Water Valley Armory
1001 Community Park Drive
Water Valley, MS 38965

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive[redacted]I PE
Tammer Sciences, Inc.

August 15, 2003

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May, 2018

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Site Description
Scope of Work
Methodology

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Illumination Survey ..... Page 5
Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
Recommendations ..... Page 6

Appendices

A. Photographs and Floor Layout.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. References.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Water Valley Armory on 18 June 2003 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<10 to 220 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	Noise levels were less than 55 dBA.	No action.
Illumination Survey	10 to 150 footcandles	No action.
HVAC/IAQ	No issues.	No action.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Water Valley Armory in Water Valley, Mississippi on 18 June 2003

BACKGROUND:

Introduction. At the request of Non-Responsive [redacted] of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Water Valley Armory in Water Valley, Mississippi. Non-Responsive contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 18 June 2003. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1951, houses the Battery Services, and the 114 Field Artillery. Three full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, a library, a classroom, a drill hall, supply rooms and storage, and a maintenance office. The armory does not have an indoor firing range. The floor layout and photos are included in Appendix A.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Quest Sound Level Meter Model 2400 Serial Number J10174219, with a calibration date of June 4, 2002. All noise measurements were area readings. Illumination readings were collected using a digital light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted].

Lead Wipe Samples: Nine wipe samples were collected from various select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
WVW01	Top of AC Window unit in Drill Hall.	100
WVW02	Top of Serving Line in Serving Area in Drill Hall.	<10
WVW03	Top of Coffee Maker in Serving Area in Drill Hall.	11
WVW04	Top of Refrigerator in Kitchen in Drill Hall.	59
WVW05	Top of Heater unit in Supply Room.	220
WVW06	Top of Monitor in Supply Office.	22
WVW07	Top of Cabinet in Sgt. Gray's Office.	21
WVW08	Top of Computer Monitor in Administrative Office.	15
WVW09	Top of Utility Table in Drill Hall.	15
WVW10	Field Blank.	<10

The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: One type of building material was identified as potentially containing asbestos. The identified type included three different types of floor tiles; sheet tile, 9x9 inch floor tile and 12x12 inches tiles. Other construction material consisted of cement floors and cinder block walls. The table below lists the samples collected and the results:

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Sample #	Description	% Asbestos Type
WVA01	12x12 inch floor tile in kitchen.	None.
WVA02	9x9 inches floor in CDO Office.	None.
WVA03	12x12 inches in Administrative Office	None.
WVA04	Sheet Tile	None.

The laboratory report and chain of custody forms are attached in Appendices B and C.

Noise Survey Area noise readings were collected in the various surveyed areas within the armory and reported as a range. The Table below lists the noise reading ranges as recorded on the day of the survey:

Area	Reading in Decibels on the A-Scale (dBA)
Administrative Office.	48 – 52
Computer Room.	45 – 50
Class Room	45 – 48
OCIE Storage.	48 – 52
Mess Storage.	45 – 50
NBC Room.	50 – 55
Maintenance Office.	42 – 48
Kitchen.	45 – 50
Library.	45 – 48
CDR's Office.	48 – 52
ISG's Office.	50 – 55
Supply Office.	47 – 52
Wool Room	45 – 52
Vault	42 – 48
Drill Hall	48 – 52

All readings are well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 10 foot-candles to 50 foot-candles. Specific readings were as follows:

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Area	Reading in Foot-candles
Administrative Office.	60 – 90
Computer Room.	50 – 150
Class Room	80 – 100
OCIE Storage.	10 – 30
Mess Storage.	10 – 20
NBC Room.	10 – 30
Maintenance Office.	10 – 30
Kitchen.	70 – 150
Library.	20 – 40
CDR's Office.	30 – 50
ISG's Office.	20 – 50
Supply Office.	80 – 90
Wool Room	20 – 30
Vault	30 – 40
Drill Hall	25 – 35

The Army Design Guide (DG415-2) recommends a minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted individual ceiling mounted gas fired haters and window air conditioners. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room.

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Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact [redacted] Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at [redacted].

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APPENDIX A

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Photo #1: Water Valley Armory Front Entrance.

Photo #2: South End of the Armory.

Photo #3: A View of the East side of the Armory.

Photo #4: View of the North Side of the Armory.

Photo #5: Drill Hall.

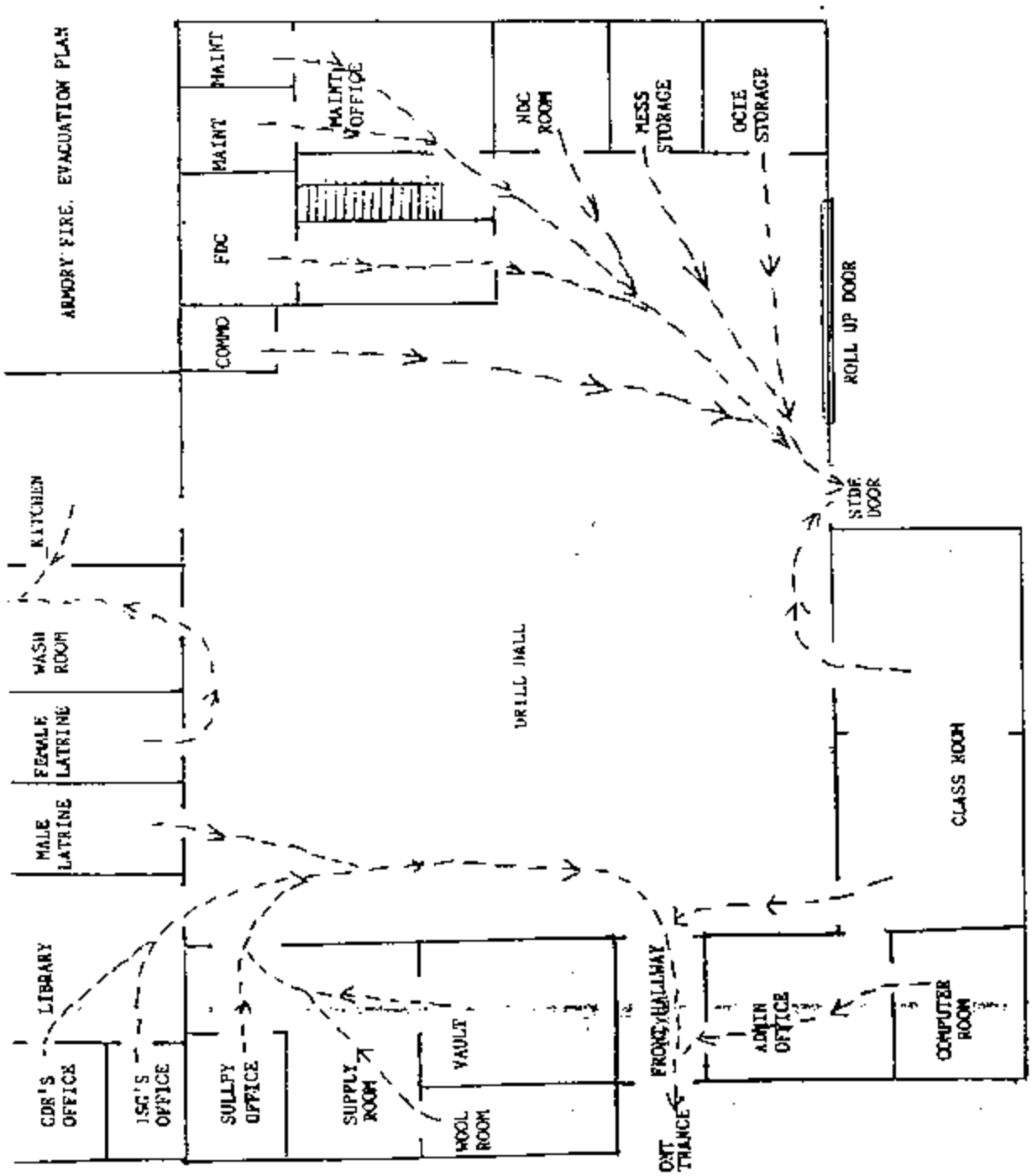
Photo #6: Drill Hall Facing North.

Photo #7: Kitchen.

Photo #8: 9x9 inch tiles found in the CDO's Office.

Photo #9: Floor Tiles found in the Administrative Offices.

Photo #10: Typical 2x4 feet Ceiling Tiles Found in the Offices.


ARMORY FIRE, EVACUATION PLAN
MAINT
MAINT
MAINT OFFICE
FDC
COMMO
NBC ROOM
MESS STORAGE
OCIE STORAGE
ROLL UP DOOR
SIDE DOOR
KITCHEN
WASH ROOM
FEMALE LATRINE
MALE LATRINE
DRILL HALL
CLASS ROOM
LIBRARY
CDR'S OFFICE
1SG'S OFFICE
SUPPLY OFFICE
SUPPLY ROOM
VAULT
WOOL ROOM
FRONT HALLWAY
ADMIN OFFICE
COMPUTER ROOM
ENTRANCE

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APPENDIX B

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EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-9651 Email: gmiller1@emsl.com

EMSL

Attn: Tammer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: (630) 369-7957 Phone: (630) 369-7956
Project: **Water Valley**

Customer ID: TS80
Customer PO:
Received: 06/23/03 10:49 AM
EMSL Order: 200306552
EMSL Project ID:

Lead in Wipes by Flame AAS (SW 846, 7420)

Client Sample Description	*Lab ID*	*Analyzed*	*Area Sampled*	*Lead Concentration*
WVW01	0001	7/7/03	144 in²	100.0 µg/ft²
WVW02	0002	7/7/03	144 in²	<10.0 µg/ft²
WVW03	0003	7/7/03	144 in²	11.0 µg/ft²
WVW04	0004	7/7/03	144 in²	59.0 µg/ft²
WVW05	0005	7/7/03	144 in²	220.0 µg/ft²
WVW06	0006	7/7/03	144 in²	22.0 µg/ft²
WVW07	0007	7/7/03	144 in²	21.0 µg/ft²
WVW08	0008	7/7/03	144 in²	15.0 µg/ft²
WVW09	0009	7/7/03	144 in²	15.0 µg/ft²
WVW10	0010	7/7/03	144 in²	<10.0 µg/ft²

Non-Responsive

[redacted]

or other approved signatory

The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA, unless specifically indicated otherwise in the comment section.
ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program #100194

Date Printed: 7/8/03 9:42:53 AM

Page 1 of 1

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: salesgl@EMSL.com

EMSL

Attn: Non-Responsive
Tanimer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: Non-Responsive
Project: MSARNG

Customer ID: TS80
Customer PO:
Received: 06/25/03 5:34 PM
EMSL Order: 040310562
EMSL Project ID:
Analysis Date: 7/3/2003

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
WVA01 040310562-0001		Tan/White Fibrous Heterogeneous	Teased	40% Cellulose 10% Min. Wool	50% Non-fibrous (other)	None Detected
WVA02 040310562-0002		Tan/White Fibrous Heterogeneous	Teased	20% Cellulose 10% Glass	70% Non-fibrous (other)	None Detected
WVA03 040310562-0003		Blue Non-Fibrous Heterogeneous	Crushed Dissolved	<1% Cellulose	100% Non-fibrous (other)	None Detected
WVA04 040310562-0004		Tan Fibrous Heterogeneous	Teased	20% Cellulose	80% Non-fibrous (other)	None Detected

Non-Responsive

Analyst(s)
Kristy Reeves (4)

PLM has been shown to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Westmont (NVLAP #101048-0). NY ELAP 10872.

PLM-1

THIS IS THE LAST PAGE OF THE REPORT.

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APPENDIX C

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2 0436652

LEAD

EMSL ANALYTICAL — CHAIN OF CUSTODY

Date: _____ EMSL Representative: _____ Project Name/No.: _____ P.O.#: _____

Company Name: Tommer Sciences, Inc. EMSL-Bill to: Same as

Street: 3744 Lawrence Drive Street: _____

Box #: _____ Box #: _____

City/State: Naperville, IL Zip: 60564 City/State: _____ Zip: _____

Phone Results to: (Name) _____ Telephone: [redacted]

Fax Results to: (Name) [redacted] Fax #: _____

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod. / AOAC (974.02)	Flame Atomic Absorption	0.01% ++	
Lead Wastewater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☐-ASTM List Wipe Type ☐-non ASTM	SW846-7420 / HUD Appendix 14.2 Digest.	Flame Atomic Absorption	10 ug/wipe	6-10
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 [illegible] / SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead Wastewater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.3 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification Requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

^ If no box is checked, non-ASTM is assumed

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
WVW01		144 m²	06532-1
WVW02		"	-2

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: _____ Date: 6/23/03 1049

Received at EMSL By: _____ Date: _____

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 w STLC.doc

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2-03061552

EMSL ANALYTICAL CHAIN OF CUSTODY LEAD

SAMPLE#	LOCATION	Air volume, L Area, in²	LAB#
		144 m²	061552-3
WVW03			4
WVW04			5
WVW05			6
WVW06			7
WVW07			8
WVW08			9
WVW09			10
WVW10			

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/23/03

Received at EMSL By: Date:

Non-Responsive

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Page 2 of 2

Lead Chain Nov 2001 v STLC.doc

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EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

0403105602

EMSL Rep:

Your Company Name: Tanner Sciences, Inc.
Street: 3744 Lawrence Drive
Box #:
City/State: Naperville, IL Zip: 60564

Phone Results to:
Name: [redacted]
Telephone #:
Project Name/Number: MSARNG

EMSL-Bill to: Same
Third Party Billing requires written authorization from third party
Street:
Box #:
City/State: Zip:

Fax Results to:
Name: [redacted]
Fax #:
Purchase Order #:

Non-Responsive

Non-Responsive

MATRIX

- ☐ Air
- ☐ Floor Tile
- ☐ Soil
- ☑ Bulk
- ☐ Drinking Water
- ☐ Dust
- ☐ Wipe
- ☐ Wastewater
- ☐ Micro-Vac

TURNAROUND

- ☐ 3 hrs
- ☐ 6 Hours
- ☐ Same Day or 12 Hours*
- ☐ 24 Hours 1 day
- ☐ 48 Hours 2 days
- ☐ 72 Hours 3 days
- ☐ 96 Hours 4 days
- ☐ 120 Hours 5 Days
- ☑ 144+ hours 6-10 Days

TEM AIR, 3 hours, 6 hours. Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon – Fri.). Please Refer to Price Quote

PCM - Air
- ☐ NIOSH 7400
- ☐ OSHA
- ☐ Other:

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NY 198.1
- ☐ Other:

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

TEM AIR
- ☐ ASHRA
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM BULK/misc
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield
- ☐ TEM NOB (Gravimetric) NY 198.4

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

TEM WATER
- ☐ Wastewater
- ☐ Drinking Water EPA 100.1
- ☐ Water - NY Wastewater
- ☐ Water-NY Drinking Water

TEM MICROVAC / WIPE
- ☐ ASTM D-5755-95 quantitative method

XRD
- ☐ Asbestos
- ☐ Silica

OTHER
- ☐

SAMPLE NUMBER	LOCATION	VOLUME (if Applicable)

Client Sample # (s) WVA01 - WVA04 Total Samples #: 4

Relinquished: [redacted] Date: 6/20/03 Time:

Received: Date: Time:

7/3/03

1

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 47000

Installation:

Building: ARMORY

Room Number:

Location:

Operation:

Survey Date: month 03 day 06 18

Evaluator-HNUS:

Macom: XX

Submacom: NG

Unit / Organization (45): SVC Battery, 1-114 FA; Water Valley, MS

Supervisor: Mr. ✓ Ms. SFC Rank

[redacted]

Non-Responsive

RAC:

DSN:

Commercial:

Frequency (hrs/day):

No. CIVs:

No. MIL: 03

Contractors:

No. LOCs:

Ventilation Units:

Controls Present (if >6 , continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit code:

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters max)
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
PONOISECO	7439-92-1			Lead dust
POFDOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFUMHAZ				
POLIFTMO				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUMEOR				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments: Remember to comment on problems, recommendations, and needed control items

Operation described is

Small Fire arms cleaning tasks in the drill Hall

(comments continued on attached)

☐ This operation was explained to the evaluators, but was not actually observed.

There is a notes data sheet attached to this form

There is a ventilation data sheet attached to this form

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APPENDIX E

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REFERENCES

1. American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23rd Edition, 1998.

2. American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

3. American Natioual Standards Institute, Z358.1-1998. Emergency Eyewash and Shower Equipment 1998.

4. Army Regulation (AR) 11-34, The Army Respiratory Protection Program, 1990

5. Army Regulation (AR) 40-5, Preventative Medicine, 15 October 1990.

6. Army Regulation (AR) 385-10, The Army Safety Program, 23 May 1988.

7. National Fire Protection Association (NFPA) No. 30, Standard for Flammable and Combustibles Liquid Code, 1996.

8. National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.

9. NGR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

10. TB MED 503, The Army Industrial Hygiene Program, February 1985.

11. Title 29, Code Of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

12. TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

13. TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f)

17 May 2011

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive, Supervisor West Point Armory, 1030 East Half Mile Street, West Point, MS 39773.

Thru: Non-Responsive, DDS NG MSARNG, 2497 N. West Street, Jackson, MS 39216.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG West Point Armory, West Point, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

e. AR 385-10, The Army Safety Program, 23 August 2007.

f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling at the MS ARNG ARNG West Point Armory, West Point, Mississippi.

2. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG West Point Armory, West Point, MS.

1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

3. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations.

a. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2011. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2012 IHIP.

a. Have all HHIM data entered into the HHIM computer module.

b. Use the report to help in correcting all deficiencies noted.

c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

d. Contact the State Occupational Health Office, Non-Responsive [redacted], for any medical Surveillance that may be needed.

e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive [redacted] Non-Responsive [redacted] Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive [redacted]

Non-Responsive [redacted]

Regional Industrial Hygienist

CF:

Non-Responsive [redacted] State Safety Manager, 1410 Riverside Dr. Jackson, MS 39202..

[redacted]te Occupational Health Nurse, 1410 Riverside Dr. Jackson, MS 39202..

ENCL:

as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
West Point Armory
1030 East Half Mile Street
West Point, MS 39773

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
Non-Responsive [redacted] CIH PE
Tammer Sciences, Inc.

May 9, 2011

Posted to NGB FOIA Reading Room
May, 2018

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- Heating Ventilating and Air Conditioning (HVAC) ..... Page 4
- Recommendations ..... Page 5

Appendices

A. Floor Layout and Illumination Measurements.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. Photographs.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the West Point Armory on 22 February 2011 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, where necessary, conducting an illumination survey, a noise survey, where excessive noise sources are identified, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<20 to 22 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	No excessive noise levels were identified.	No action.
Illumination Survey	Average readings ranged from 7 to 128 foot candles	No action.
HVAC/IAQ	No issues or complaints observed or reported	No action.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the West Point Armory in West Point, Mississippi on 22 February 2011

BACKGROUND:

Introduction. At the request of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the West Point Armory in West Point, Mississippi. Non-Responsive Industrial Hygiene Technician, MSARNG Occupational Health-Industrial Hygiene, and Non-Responsive, contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 22 February 2011. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1970, houses the 223rd Engineering unit. Thirteen to fifteen full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, training or classrooms, a drill hall, a supply room, a library, and a weight room. A converted indoor firing range was built with this armory and is currently used for storage. Copies of the floor layout are included in Appendix A. Photos are included in Appendix E.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Where the presence of asbestos was suspect, bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was intended to be minimally destructive and samples were collected from inconspicuous areas. Each collected sample, if collected, was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Larson Davis Model Spark 706RC noise level meter was used to collect area noise readings. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Warrant Officer [redacted]

Lead Wipe Samples: Ten wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
WP01	Drill hall floor in front of the converted IFR door	<20
WP02	Drill hall floor across from the converted IFR	<20
WP03	Drill hall floor middle of hall	<20
WP04	Drill hall floor in front of kitchen	<20
WP05	Drill hall floor across form kitchen	<20
WP06	Converted IFR floor by entrance	<20
WP07	Shelf top in converted IFR by bullet trap	22
WP08	Top of storage shelves mid range of the converted IFR	<20
WP09	Top of fridge in kitchen	<20
WP10	Top of shelves in classrooms	<20

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: No suspect building material types were identified as potentially containing asbestos.

Noise Survey Based on observations during the walkthrough baseline survey, no sources of excessive noise were identified and therefore no area noise readings were collected. Noise levels are likely to be well below the Occupational Safety and Health

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Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 4 foot-candles to 155 foot-candles. Specific readings were as follows:

Area	Lighting Readings in Foot Candles		
	Min	Average	Max
Orderly Room	21	51	108
S-4 Office	30	57	135
S-3 Operations	26	52	94
Admin Office	34	90	162
S-1 NCO	21	68	119
Battalion Commander's Office	22	86	174
CSM Office	22	128	174
Meeting Room	11	54	105
Class Room	12	34	93
S-1 Office	31	48	110
Drill hall	5	75	155
Kitchen/Mess hall	15	56	80
Supply Room	4	20	33
Storage Room	5	7	24

All readings except for the classroom and S1 officeare within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 4 forced air units located in a mechanical room. The system is capable to deliver outside makeup air to the occupied space. The return air plenum is common to all units and it is located under the

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units. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

None.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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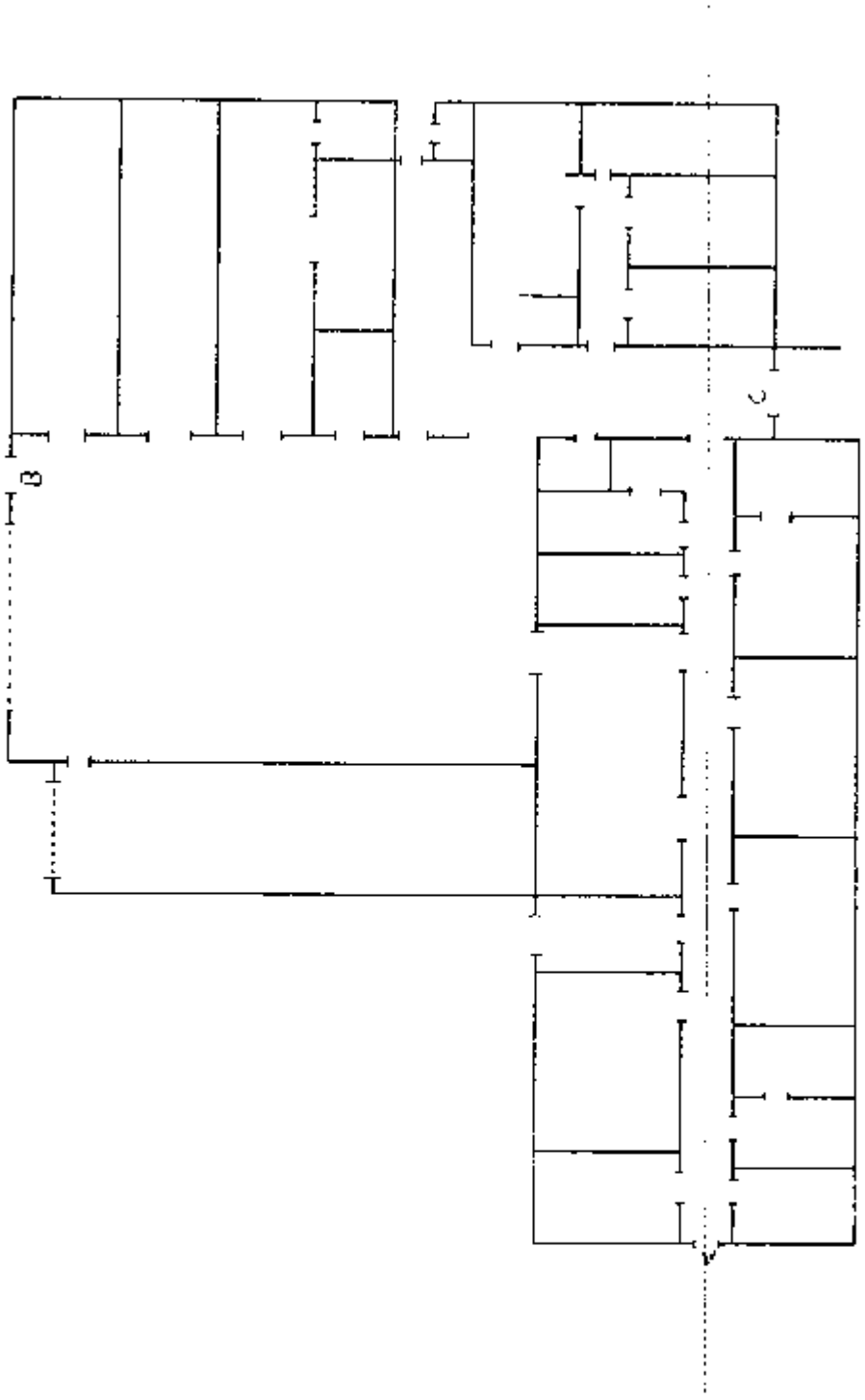
EMERGENCY LIGHTING LAYOUT



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May, 2018

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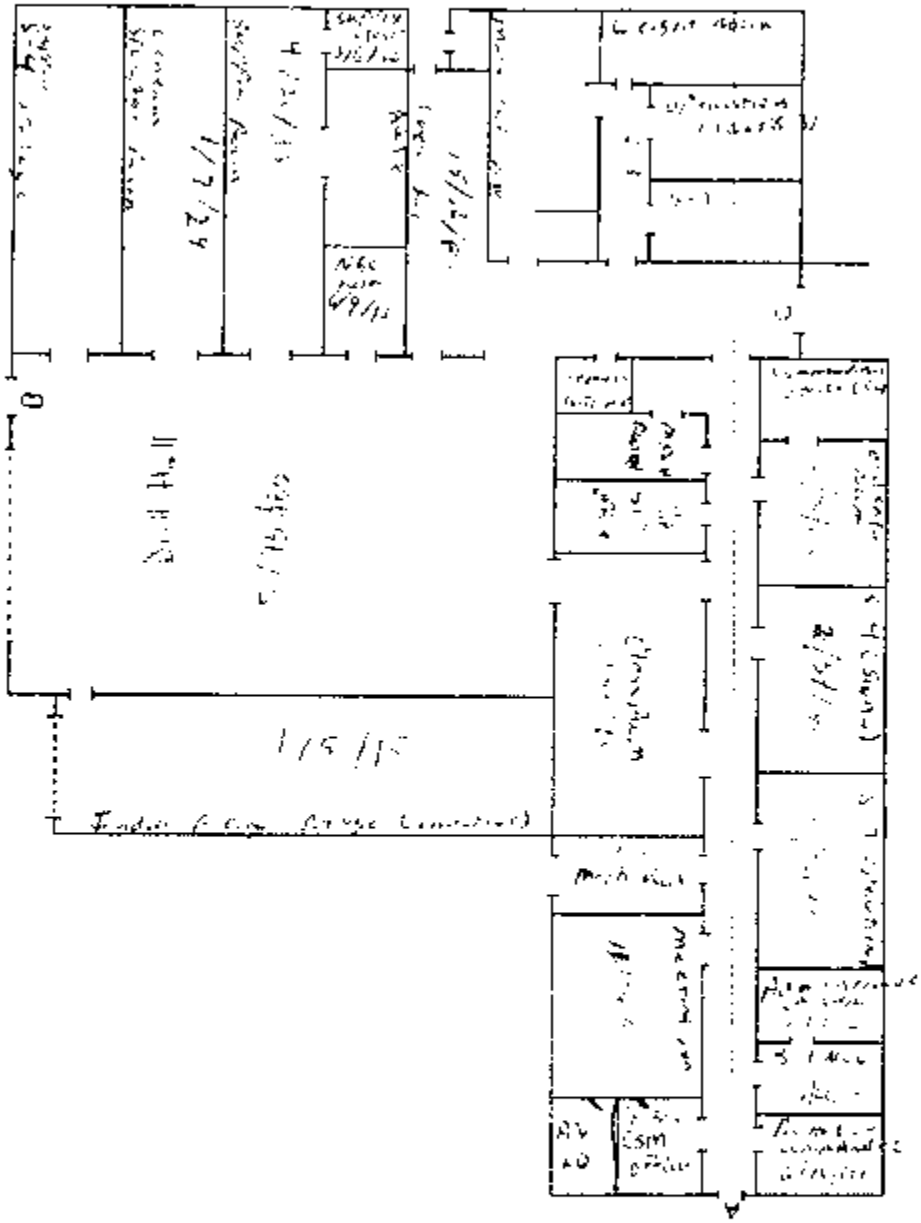
West Point Armory
EMERGENCY LIGHTING LAYOUT



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APPENDIX B

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 11, 2011

Non-Responsive
[redacted]
Tanner Sciences, Inc.
3744 Lawrence Dr
Naperville IL 60564

TEL:
FAX:

RE: MSARNG Armories

Dear Non-Responsive [redacted]

Order No: 1103436

Analytical Environmental Services, Inc. received 62 samples on 3/4/2011 12:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive
[redacted]

Project Manager

[illegible]

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Analytical Environmental Services, Inc.

Date: 3/16/2011

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: Tanner Sciences, Inc.
Project: MSARNG Armories
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
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Qualifiers [illegible]

Reserve the blank corrected where applicable

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Analytical Environmental Services, Inc.

Date: [illegible] 2011

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: Tetra Tech, Inc.
Project: MSARNG Armories
Delivery Order:
PO No:

Lab Order: [illegible]
Date Received: [illegible]
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit	DF	Date Collected	Date Analyzed	Analyst
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JY
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JY
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JY

Qualifiers: [illegible]

Results are blank corrected where applicable.

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APPENDIX C

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

(770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX (770) 457-8188

CHAIN OF CUSTODY

Work Order: 11 3436

Date: 3/1/2011 Page 1 of 1

COMPANY: [redacted] Non-Responsive

ADDRESS: 4304 Concourse Drive Naperville, IL 60563

[redacted] Non-Responsive

ANALYSIS REQUESTED: Total Weight, Total Organic Lead

PRESERVATION (Check one)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Total Weight	Total Organic Lead	REMARKS
1	MW	2/21	day			Multi Wipe	✓	✓	
2	WFB - Rinsate	2/21	PM						
3	PM01	2/22	day			Basic		✓	
4	CS01 → CS11	2/23/11	AM			Solid		✓	
5	LV01 → LV10	2/21/11	PM			Wipe		✓	
6	AK01 → AK09	2/22/11	AM					✓	
7	EP01 → EP09	2/22/11	AM					✓	
8	WP01 → WP10	2/21/11	AM					✓	
9	SV01 → SV10	2/22/11	PM					✓	
10									
11									
12									
13									
14									

RELINQUISHED BY: [redacted] Non-Responsive DATE/TIME

RECEIVED BY: State Mess DATE/TIME

PROJECT INFORMATION

PROJECT NAME: MSARNG Armories

[redacted] Non-Responsive

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD: UPS Next Day Air

RECEIPT

Normal Turnaround Time Requested

Standard 5 Business Days

3 Business Days Rush

Next Business Day Rush

Saturday Rush (surcharge may apply)

Other

STATE PROJECT (Check one)

Yes No

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 4PM OR ON SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO DATE IS MARKED ON COC, AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air, GW = Groundwater, SL = Sediment, SO = Soil, SW = Surface Water, W = Water (Potable), WW = Wastewater, DW = Drinking Water, O = other (specify)

OTHER CODES: B = Bottle, C = Cooler, F = Filter, N = Preservative, P = Preserved, S = Seals, T = Tag, V = Vial, Number = Number of Containers, Other = Other (specify)

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form — Front Page

ARLOC: 4 7 0 0 0 0

Installation: [redacted]

Building: M A I N

Room Number:

Location: M S

Operation:

Survey Date — Month: 0 2 2 2 — day: 1 1

Evaluator -HNUS: [redacted]

Macom: N G

Submacom: X X

Unit / Organization (45): 223rd Engineering unit

RAC:

[redacted]

DSN: [redacted]

Commercial: [redacted]

Ventilation Units:

Frequency (hrs/day): 1

No. CIVs:

No. MIL: 1 4

Contractors: 0 0

No. LOCs:

Controls Present (if>6, continue in comments)(25): N/A

Evaluation (25 characters max): N/A

Unit Code:

Controls Required (25 characters max): N/A

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agent			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U	Manufacturer's Description (10 characters max)	NIOSH TC # or Foreign equivalent (10 characters m
airline					
abrasive blasting hood					
disposable					
full face air purifying					
1/2 face air purifying					
powered air purifying					
1/4 face air purifying					
self-contained					
other					

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-106 dBA steady) earplugs			
" helmet w/ muffs			
muffs alone			
(106-118)muff/earplug comb			
muffs and earplugs		X	X
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. Clothing			
other			

Head and Feet	e*	R	U
Cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safet(nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent)_____ - EYE (portable)_____ - SHW - GMV - LEV

ACO ADM DSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

HHIMS Industrial Hygiene Survey Form — Back Page

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	CAS code	PAC	EPC	Hazard Description
PONOISECO	7 4 3 9 - 9 2 - 1			Lead Dust
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUBEOIL				

Social Security Number or Unique Identifier

Last Name (20 characters max)

First Name (20 characters)

MI

Sex

Category

x Personnel data provided by the facility is attached to this form

Remember to comment on problems, recommendations, and needed control items

Comments

Operation described is

Small arms clean ups in drill hall. Surface wipe samples were collected fro various areas of the Armory.

Refer to the report for the results

(comments continued on attached

This operation was explained to the evaluators, but was not actually observed

There is a noise calc sheet attached to this form

This is a ventilation data sheet attached to this form

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APPENDIX E

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Photo #1: Front entrance to West Point Armory.

Photo #2: Hallway leading to the admin offices.

Photo #3: Drill hall facing west.

Photo #4: Drill hall facing east.

Photo #5: Converted IFR.

Photo #6: Kitchen.

Photo #7: Classroom.

Photo #8: Mechanical room showing the furnaces.

Photo #9: Outside the Armory showing the rear of the drill hall.

Photo #10: East side of the Armory.

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

NGB-AVN-SI August 29, 2003

MEMORANDUM FOR: The Adjutant General of Mississippi, ATTN: Winona Armory Manager, 22 Industrial Park Boulevard, Winona, MS 38967

SUBJECT: Transmittal of IH Survey Report of the Winona Armory in Winona, MS.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, 30 August 1986, Medical Service, Preventive Medicine.

c. National Guard Regulation (NGR) 385-10, 1988, Army National Guard Safety and Occupational Health Program.

d. AR 11-34, The Army Respiratory Protection Program, 15 February 1990.

e. TB MED 502, Occupational and Environmental Health Respiratory Protection Program, February 1982.

f. DA PAM 40-503, 30 October 2000, The Army Industrial Hygiene Program.

g. DA PAM 40-501, 10 December 1998, Hearing Conservation.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

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k. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

l. Report dated 15 August 2003, Industrial Hygiene Survey, Non-Responsive of Tamar Industrial Hygiene Consulting.

2. General.

a. At the request of the MS ARNG Safety and Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field surveys and industrial hygiene sampling of the Winona Armory in Winona, MS.

b. The surveys were conducted by Non-Responsive of Tamar Industrial Hygiene Consulting, Naperville, IL

3. Findings. All HHIM field survey forms and survey findings of the report. (See enclosure 1)

4. Recommendations.

a. Follow all recommendations made in reference 1.l., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Control water infiltration in the armory and/or replace or repair damaged surfaces or components (ceiling and floor tiles). Building conditions that present IAQ concerns or problems not only exacerbates normally minor health issues but also tend to promote or accelerate building deterioration.

c. The recommendations given in the comment section of the HHIM data sheets and data collected will serve as a baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY-03. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY-04 IHIP.

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present survey, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

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NGB-AVN-SI
SUBJECT: Transmittal of IH Survey Report of the Winona Armory in Winona, MS.

f. Give special consideration to cleaning light fixtures, increasing the wattage and painting walls a lighter color when upgrading the lighting in the facility.

5. If additional information is needed about the industrial hygiene survey or air sample results, please contact Non-Responsive [redacted], Regional Industrial Hygienist, NGB-AVN-SI, Non-Responsive [redacted].

Non-Responsive
[redacted]

CF:
NBG-AVN-SH
State Occupational Health Office, 2497 N. West Street, Jackson, MS 39216.
State Safety Manager, 2497 N. West Street, Jackson, MS 39216.

Encl
as

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Industrial Hygiene Baseline Survey Report
For
Mississippi Army National Guard
(MSARNG)

At
Winona Armory
22 Industrial Park Boulevard
Winona, MS 38967

Prepared for:

Department of the Army and the Air Force
National Guard Bureau
Regional Industrial Hygiene Office
Region South
Airport Plaza Suite 1530
510 Plaza Drive
College Park, GA 30349

By
[redacted]CIH PE
Tammer Sciences, Inc.

August 15, 2003

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- Methodology

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- Asbestos Suspect Building Material ..... Page 3
- Noise Survey ..... Page 4
- Illumination Survey ..... Page 5
- Heating Ventilating and Air Conditioning (HVAC) ..... Page 5
- Recommendations ..... Page 6

Appendices

A. Photographs and Floor Layout.
B. Laboratory Analytical Results.
C. Lab Chain of Custody.
D. Health Hazard Information Module Forms (HHIM).
E. References.

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Executive Summary

An initial baseline industrial hygiene survey was conducted at the Winona Armory on 17 June 2003 as part of the Mississippi Army National Guard Occupational Health Program to identify potential health hazards in the workplace. The survey consisted of collecting lead wipe samples and bulk asbestos samples, conducting an illumination survey, a noise survey, and an evaluation of the Heating Ventilation and Air Conditioning System (HVAC) as it relates to indoor air quality.

The following table summarizes the survey findings and recommendations for each topic surveyed.

Topic	Summary of Findings	Recommendations
Lead Wipe Samples	<10 to 13 microgram per square foot.	No action
Asbestos Bulk Samples	No Suspect asbestos containing material found.	No action.
Noise Survey	Noise levels ranged from 42 to 55 dBA.	No action.
Illumination Survey	30 to 140 footcandles	No action.
HVAC/IAQ	Wooden common air plenum in mechanical room.	Consider replacing the wood with metal.

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SUBJECT: Industrial Hygiene Initial Baseline Survey of the Winona Armory in Winona, Mississippi on 17 June 2003

BACKGROUND:

Introduction. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, an initial baseline industrial hygiene survey was performed at the Winona Armory in Winona, Mississippi. Non-Responsive contract Industrial Hygienist, Tammer Sciences, Inc. conducted the survey on 17 June 2003. The purpose of the survey was to perform an initial baseline industrial hygiene survey to evaluate potential health hazards present at the armory.

Site Description. The facility, which was constructed in 1996, houses Battery B and the 1-114 FA. Three full time employees work at this armory. The building is a one-story structure, which consists of an administrative office area, a kitchen, training or classrooms, a drill hall, a supply room, a library, an exercise room, and a storage room. No indoor firing range was built with this armory. No copies of the floor layout were available to include in the report. Photos are included in Appendix A.

Scope of Work. The work included collecting wipe samples for lead, bulk samples for suspect asbestos containing building material, illumination levels, noise readings, and an evaluation of the ventilation system as it pertains to indoor air quality.

Methodology Lead wipe samples were collected from various surfaces in the armory as indicated and in accordance to instructions published by the Region south Industrial Hygiene Bureau. Surfaces selected were in areas were lead contamination is suspected because of small firearms cleaning activities or the presence of a renovated, inactive, or closed indoor firing range (IFR). The instructions published by Region South National Guard Bureau required the use of unscented baby wipes to wipe one square foot of surface area. Samples were then placed in a sealed plastic bag and sent for analysis to EMSL laboratory, which is an American Industrial Hygiene Association (AIHA) Accredited laboratory. Asbestos bulk samples were collected from suspect building materials that were grouped based on similarity of composition. Bulk sample collection was minimally destructive and samples were collected from inconspicuous areas. Bulk samples were also collected from suspect friable and damaged building material. Each bulk sample was placed in a sealed bag and sent to EMSL laboratory for analysis. A photograph of the sampled material and area were also taken. Noise readings were measured using a Quest Sound Level Meter Model 2400 Serial Number J10174219, with a calibration date of June 4, 2002. All noise measurements were area readings. Illumination readings were collected using a Sper Scientific light meter. Illumination readings were taken on work surfaces and approximately four feet from the floor.

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FINDINGS and DISCUSSION:

The Point of Contact during the survey was Non-Responsive [redacted].

Lead Wipe Samples: Eleven wipe samples were collected from select surfaces as listed in the table below:

Sample Number	Sample Location	Micrograms of lead (ug) per square foot
WINW01	Top of Glass Show Case by Serving Line	<10
WINW02	Top of Heating Oven in Kitchen.	<10
WINW03	Top of Speaker in Drill Hall by Maintenance Shop.	<10
WINW04	Top of Speaker in Drill Hall by Classroom C.	<10
WINW05	Top of Table in Classroom C.	<10
WINW06	Top of Window Sill in Physical Fitness Room.	<10
WINW07	Supply diffuser in Supply Office.	<10
WINW08	Top of Shelves in Library.	<10
WINW09	Supply diffuser in Administrative Office.	<10
WINW10	Return Air Grill in Administrative Office.	13
WINW11	Field Blank.	<10

Sampling results shows levels well below the recommended limit of 200 micrograms per square foot. No further action is required. The US Environmental Protection Agency (EPA), under a new standard issued in 2000, considers lead dust as a hazard if levels are greater than 40 micrograms of lead in dust per square foot on floors; 250 micrograms of lead in dust per square foot on interior window sills, and 400 parts per million (ppm) of lead in bare soil in children's play areas or 1200 ppm average for bare soil in the rest of the yard. This standard is a major effort by the EPA to identify dangerous levels of lead in paint, dust and soil in order to protect children from lead poisoning. The National Guard Bureau recommends a limit of 200 micrograms per square foot for surface contamination. The laboratory report and chain of custody forms are attached in Appendices B and C.

Asbestos Suspect Building Material: Two types of building materials were identified as potentially containing asbestos. The identified types included 12 by 12 inches gray floor tiles and 2x2 feet ceiling tiles. Two bulk samples were collected randomly from the identified materials. Other construction material consisted of cement floors and cinder block walls. The table below lists the samples collected and the results:

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Sample #	Description	% Asbestos Type
WINA01	12x12 inch gray floor tile.	None.
WINA02	2x4 Ceiling tiles form the office areas	None.

The laboratory report and chain of custody forms are attached in Appendices B and C.

Noise Survey Area noise readings were collected in the various surveyed areas within the armory and reported as a range. The Table below lists the noise reading ranges as recorded on the day of the survey:

Area	Reading in Decibels on the A-Scale (dBA)
Recruiter Office	45 – 50
Conference Room	48 – 50
Library	45 – 47
Classroom A	46 – 48
Classroom B	50 – 55
Drill Hall	45 – 50
Classroom C	43 – 45
Exercise Room	42 – 44
Supply Office	48 – 50
Supply Area	50 – 55
Maintenance Bay	50 – 52
Kitchen	48 - 52

All readings are well below the Occupational Safety and Health Administration (OSHA) regulated limit of 90 dBA and the Army recommended limit of 85 dBA.

Illumination Survey Lighting levels throughout the Armory ranged between 10 foot-candles to 140 foot-candles. Specific readings were as follows:

Area	Reading in Foot-candles
Recruiter Office	80 – 90
Conference Room	70 – 80
Library	70 – 80
Classroom A	80 – 90

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Classroom B	80 – 90
Drill Hall	30 – 45
Classroom C	80 – 90
Exercise Room	25 – 35
Supply Office	80 – 90
Supply Area	10 – 30
Maintenance Bay	130 – 140
Kitchen	10 – 70

All readings are within the Army Design Guide (DG415-2) minimum illumination level of 50 foot-candle for office area and 20 foot-candles for parts storage/supply. The American National Standard Institute (ANSI) recommends a minimum illumination level of 50 to 100 foot-candles for office work, 20 to 50 for general lighting. Luminance depends on various factors including the task to be performed, the age of the individual, and the surroundings. Luminance of 50 to 100 foot-candles is recommended for performance of visual tasks of medium contrast or small size such as reading pencil handwriting and poorly printed or reproduced material. Depending on the type of display, background luminance of 30 to 60 foot-candles is recommended for VDT work. Replacing light bulbs with higher wattage will increase lighting levels. Replacing burnt out light bulbs and cleaning the light fixture should improve the lighting levels. Some light bulbs in the Kitchen were out.

Heating Ventilating and Air Conditioning (HVAC) The Heating Ventilating and Air-Conditioning (HVAC) System for the Armory consisted of 7 forced air units located in a mechanical room. The system is capable to deliver outside makeup air to the occupied space. The return air plenum is common to all units and it is located under the units. Plywood was used to construct this return plenum. Condensation water was observed near and under the common plenum. The presence of water and wood will provide an opportunity for a microbiological growth source within this common plenum. Given the right conditions these sources can contribute negatively to the quality of the indoor air. All condensate water should be isolated from the wood on the return air plenum. Consideration should be given to replace the wood with a metal structure. No complaints of indoor air quality issues were documented or communicated with the POC.

Recommendation:

Isolate condensate water from the wooden common plenum in the mechanical room.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact Non-Responsive Regional Industrial Hygienist at the NGB ARNG Region South Industrial Hygiene Office at Non-Responsive

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APPENDIX A

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Photo #1: Winona Armory Front Entrance.

Photo #2: View of the Armory from the South.

Photo #3: South East View of the Armory.

Photo #4: North side of the Armory showing the Maintenance Bay.

Photo #5: View of the North West Side of the Armory.

Photo #6: Flammable Storage area.

Photo #7: Drill Hall.

Photo #8: Another View of the Drill Hall.

Photo #9: Kitchen Serving Line.

Photo #10: Kitchen Area.

Photo #11: Maintenance Bay Area.

Photo #12: Classroom C.

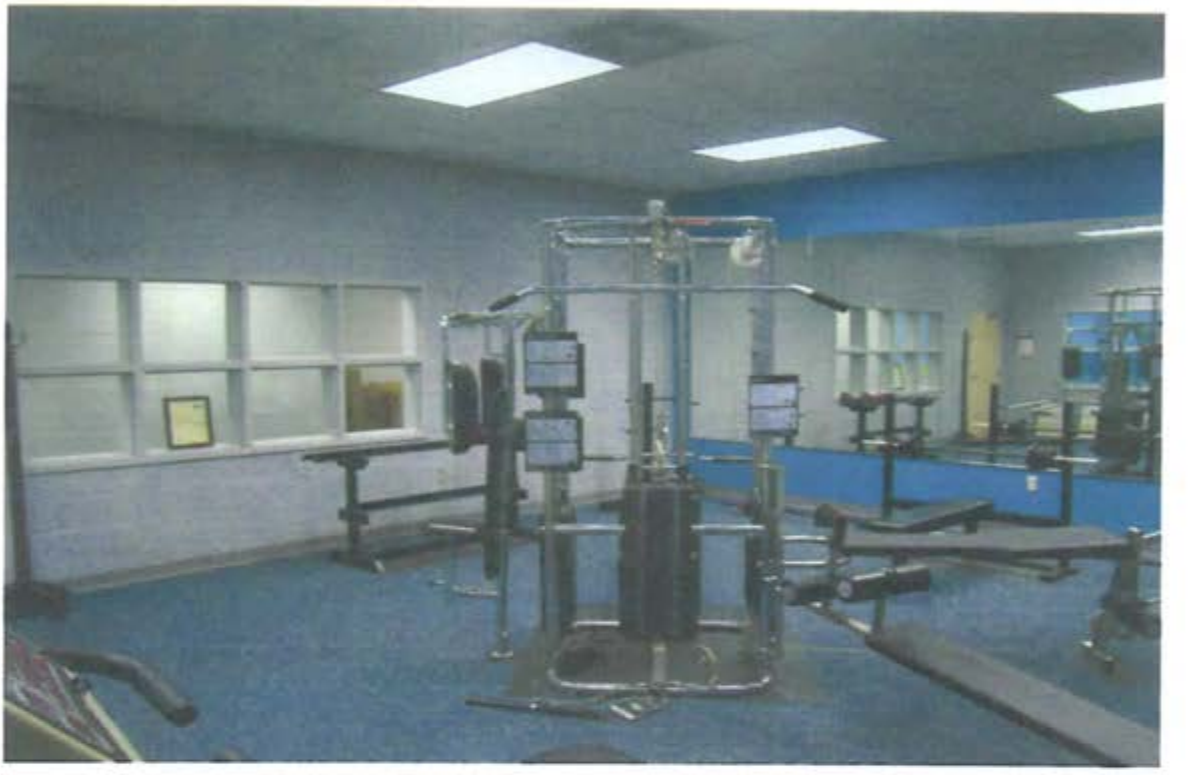

Photo #13: Exercise or Physical Fitness Room.

Photo #14: Return Air Grill in the Administrative Area.

Photo #15: Air Handling Units in the Mechanical Room.

Photo #16: Return Air Plenum Under the Air Handlers. Note Water Damage.

Photo #17: Gray 12 by 12 inches Floor Tiles Sampled.

Photo #18: Building Plaque Showing Construction Year.

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APPENDIX B

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EMSL Analytical
3 Cooper St., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-6561 Email: gmiller1@emsl.com

EMSL

Attn: Tammer Sciences, Inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax: (630) 369-7957 Phone: (630) 369-7956
Project: Winona

Customer ID: TS80
Customer PO:
Received: 06/23/03 10:49 AM
EMSL Order: 200306546
EMSL Project ID:

Lead in Wipes by Flame AAS (SW 846, 7420)

Client Sample Description		Lab ID	Analyzed	Area Sampled	Lead Concentration
WINW01	Results for these wipe samples do not meet the EPA standards for sample matrix and are not recognized under the NLLAP accreditation program	0001	7/7/03	n/a	<10.0 µg/wipe
WINW02		0002	7/7/03	n/a	<10.0 µg/wipe
WINW03		0003	7/7/03	144 in²	<10.0 µg/ft²
WINW04		0004	7/7/03	144 in²	<10.0 µg/ft²
WINW05		0005	7/7/03	144 in²	<10.0 µg/ft²
WINW06		0006	7/7/03	144 in²	<10.0 µg/ft²
WINW07		0007	7/7/03	144 in²	<10.0 µg/ft²
WINW08		0008	7/7/03	144 in²	<10.0 µg/ft²
WINW09		0009	7/7/03	144 in²	<10.0 µg/ft²
WINW10		0010	7/7/03	144 in²	13.0 µg/ft²
WINW11		0011	7/7/03	144 in²	<10.0 µg/ft²

Non-Responsive

[redacted]

The QC data associated with the sample results included in this report meet the recovery and precision requirements [illegible] the comment section.

ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program # 100184

Date Printed: 7/8/03 9:42:11 AM

Page 1 of 1

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: salesgal@EMSL.com

EMSL

Attn: Non-Responsive [redacted] inc.
3744 Lawrence Drive
Naperville, IL 60564
Fax:
Project: Non-Responsive [redacted]

Customer ID: TS80
Customer PO:
Received: 06/26/03 5:34 PM
EMSL Order: 040310566
EMSL Project ID:
Analysis Date: 7/5/2003

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	% Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
WINA01 *040310566-0001*		White Non-Fibrous Heterogeneous	Dissolved		100% Non-fibrous (other)	None Detected
WINA02 *040310566-0002*		Gray Non-Fibrous Heterogeneous	Dissolved		100% Non-fibrous (other)	None Detected

Non-Responsive [redacted]

Analyst(s)

Non-Responsive [redacted]

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLM-1

1

THIS IS THE LAST PAGE OF THE REPORT.

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APPENDIX C

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2L03061540

EMSL ANALYTICAL CHAIN OF CUSTODY LEAD

Date: _____ EMSL Representative: _____ Project Name/No.: _____ P.O.#: _____

Company Name: Thermex Services, Inc. EMSL-Bill to: Same as

Street: 3744 Lawrence Dr. Street: _____

Box #: _____ Box #: _____

City/State: Naperville IL Zip: 60564 City/State: _____ Zip: _____

Phone Results to: (Name) [redacted] Telephone: [redacted]

Fax Results to: (Name) _____ Fax #: [redacted]

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod. / AOAC (974.02)	Flame Atomic Absorption	0.01% ++	
Lead Wastewater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ ☑-ASTM List Wipe Type _____ ☐-non ASTM	SW846-7420 / HUD Appendix 14.2 Digest.	Flame Atomic Absorption	10 ug/wipe	6-10
	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 66261.126 / SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead Wastewater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.3 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification Requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

^ If no box is checked, non-ASTM is assumed

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
			01541-1
WINW01			-2
WINW02			

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/23/03 1049 AM

Received at EMSL By: _____ Date: _____

Note: Please duplicate this form and use additional sheets if necessary.

@: The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

Lead Chain Nov 2001 w STLC.doc

Page 1 of 2

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EMSL ANALYTICAL CHAIN OF CUSTODY 20030654C LEAD

SAMPLE #	LOCATION	Air volume, L Area, in²	LAB #
WINW03		144 in²	0654C-3
WINW04			4
WIN W05			5
WIN W06			6
WINW07			7
WINW08			8
WIN W09			9
WIN W10			10
WINW11			11

@ Relinquished By: (Person) [redacted] Date: 6/20/03

Received at EMSL By: [redacted] Date: 6/23/03

Received at EMSL By: [redacted] Date: _____

Non-Responsive

Note: Please duplicate this form and use additional sheets if necessary.

@ The individual signing and relinquishing these samples to the laboratory attests to the accuracy of the information reported on this chain of custody.

page 2 of 2

Lead Chain Nov 2001 w STLC.doc

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0403105 66

EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

EMSL Rep:

Your Company Name: Tanner Sciences, Inc.
Street: 3744 Lawrence Dr.
Box #:
City/State: Naperville, IL Zip: 60564

Third Party Billing requires written authorization from third party

EMSL-Bill to:
Street:
Box #:
City/State: Zip:

Fax Results to:

Phone Results to:
Name:
Telephone #:
Project Name/Number:

Non-Responsive [redacted]

MATRIX			TURNAROUND			
☐ Air	☐ Floor Tile	☐ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☑ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☐ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☑ 144+ hours 6-10 Days			

*TEM AIR, 3 hours, 6 hours. Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m. Mon – Fri.), *Please Refer to Price Quote

PCM - Air
- ☐ NIOSH 7400
- ☐ OSHA
- ☐ Other:

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NY 198.1
- ☐ Other:

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

TEM AIR
- ☐ AHERA
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM BULK/misc
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield
- ☐ TEM NOB (Gravimetric) NY 198.4

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

TEM WATER
- ☐ Wastewater
- ☐ Drinking Water EPA 100.1
- ☐ Water - NY Wastewater
- ☐ Water-NY Drinking Water

TEM MICROVAC / WIPE
- ☐ ASTM D 5755-95 quantitative/qualitative

XRD
- ☐ Asbestos
- ☐ Silica

OTHER
- ☐

25 PM 5:34

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)

Client Sample # (s) WINA01 - WINA02 Total Samples #: 2

Non-Responsive [redacted]

Relinquished: Date: 6/20/03 Time: AM

Received: Date: Time:

From Lead

JMK 7-5-03

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APPENDIX D

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HHIMS Industrial Hygiene Survey Form

Front page

ARLOC: 47000

Installation:

Building: ARMORY

Room Number:

Location: [redacted]

Operation:

Survey Date: [redacted]

month: [redacted]

day: [redacted]

Evaluator-HNUS: [redacted]

Macom: NG

Submacom: XX

RAC:

Unit / Organization (45): Btry B, 1-114 FA, Winona, MS

DSN: [redacted]

Commercial: [redacted]

Frequency (hrs/day):

No. CIVs:

No. MIL: 03

Contractors:

No. LOCs:

Ventilation Units:

Controls Present (if >6, continue in comments)[25]: N/A

Evaluation [25 characters max]: N/A

Unit code:

Controls Required [25 characters max]: N/A

Manufacturer's Description (10 characters max):

NIOSH TC # or Foreign equivalent (10 characters max):

Gloves	e*	R	U
acid			
cold surfaces			
hot surfaces			
NBC agents			
oil			
solvents			
surgical gloves			
leather / cotton			
other			

Respirator	e*	R	U
airline			
abrasive blasting hood			
disposable			
full face air purifying			
1/2 face air purifying			
powered air purifying			
1/4 face air purifying			
self-contained			
other			

Eyes and Face	e*	R	U
chemical splash			
full face shield			
chem/safety impact			
safety impact			
welding helmet			
sunglasses			
welding goggles/glasses			
laser eye protection			
other			

Hearing	e*	R	U
canal caps			
(>85-108 dBA steady) earplugs			
" helmets w/ muffs			
" muffs alone			
(108-118)muff/earplug comb			
muffs and earplugs			
(118 or >) with time limit			
other			
other			

Body	e*	R	U
aprons			
cold weather clothing			
coveralls			
full body suit			
heat reflective			
vest/suit			
safety belt/harness			
special purp. clothing			
other			

Head and Feet	e*	R	U
cold weather boots/hat			
hard hats			
impermeable boots			
safety shoes (conductive)			
safety (nonconductive)			
other			
other			
other			
other			

e* = evaluator's recommendation or agreement

Reminders: ergonomics - dermatitis - physical agents - flammable storage
EYE (permanent) ____ - EYE (portable) ____ - SHW - GMV - LEV

ACO ADM OSA DSN LAB LCK
RAD ECB EPL RHS SPR WEL

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HHIMS Industrial Hygiene Survey Form

Back page

	CAS code	PAC	EPC	Hazard Description
POHOLSECO	9437-92-1			Lead Dust from Small Firearms Cleaning
POFOOTHAZ				
POFLYPROJ				
POEYEHAZA				
POFLAMHAZ				
POLIFTING				
POSHARPOB				
POHOTOBJE				
POELSHOCK				
COLUMBOR				

Social Security Number or Unique Identifier	Last Name (20 characters max)	First Name (20 characters max)	MI	Sex	Category

☐ Personnel data provided by the facility is attached to this form

Comments: Remember to comment on problems, recommendations, and needed control items

Operation described is

Small firearms cleaning is performed in the drill Hall.
All surface wipes were less than 200 ug/ft²

(comments continued on attached)

☐ This operation was explained to the evaluators, but was not actually observed.

There is a noise data sheet attached to this form ☐ There is a ventilation data sheet attached to this form ☐

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APPENDIX E

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REFERENCES

1. American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation. A Manual of Recommended Practice, 23rd Edition, 1998.

2. American National Standards Institute (ANSI), /Illuminating Engineering Society (IES). Industrial Lighting 1991.

3. American National Standards Institute, Z358.1-1998. Emergency Eyewash and Shower Equipment 1998.

4. Army Regulation (AR) 11-34, The Army Respiratory Protection Program, 1990

5. Army Regulation (AR) 40-5, Preventative Medicine, 15 October 1990.

6. Army Regulation (AR) 385-10, The Army Safety Program, 23 May 1988.

7. National Fire Protection Association (NFPA) No. 30, Standard for Flammable and Combustibles Liquid Code, 1996.

8. National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.

9. NGR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

10. TB MED 503, The Army Industrial Hygiene Program, February 1985.

11. Title 29, Code Of Federal Regulations (CFR), 1999, revision, Part 1910, Occupational Safety and Health Standards.

12. TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

13. TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

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DEPARTMENT OF THE ARMY AND THE AIR FORCE
NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE
COLLEGE PARK, GA 30349

ARNG-CSG-P (40-5f) July 3, 2012

MEMORANDUM FOR: The Adjutant General of MS ARNG, ATTN.: Non-Responsive [redacted], ARNG Yazoo City Armory, 2201 Gordon Ave in Yazoo City, MS 39194.

Thru: Non-Responsive [redacted], DDS NG MSARNG, 1420 Raymond Road, Box G, Jackson, MS 30204.

SUBJECT: Transmittal of Industrial Hygiene Survey of the MS ARNG Yazoo City Armory, Yazoo City, MS.

1. References.

   a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 19 August 1998.

   b. Title 29, Code of Federal Regulations (CFR), 2009 rev., part 1910, Occupational Safety and Health Standards.

   c. Title 29 CFR, General Industry, revised 2009 rev. Part 1940

   d. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 25 May 2007

   e. AR 385-10, The Army Safety Program, 23 August 2007.

   f. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

   g. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 12 September 2008.

   h. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

   i. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2009 American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

   j. Industrial Ventilation, 26th rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

   k. USAEHA TG-141, November 1997, Guidelines for Air Sampling and Bulk sample Collection.

2. General. At the request of MS ARNG Occupational Health Office, an Industrial Hygiene Service was put together to conduct Health Hazard Information module (HHIM) Field

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surveys and industrial hygiene sampling at the MS ARNG Yazoo City Armory, Yazoo City, Mississippi.

3. Findings. The information that follows are the findings of the survey performed. All HHIM field survey forms, industrial hygiene sampling and survey findings of the report are enclosed (See ENCL 1). Operations of very short duration were not sampled due to the requirements of the sampling method. If the operation changes or if the length of the operation is increased, contact this office to schedule sampling if it is deemed needed then.

4. Recommendations. Follow the recommendations made in the enclosed report, requesting industrial hygiene (IH) services where needed to complete the recommendations. The recommendations given in the comments section of the HHIM data sheets and data collected will serve as an update of the baseline for the Industrial Hygiene Implementation Plan (IHIP) for FY2012. A follow up operation and hazard specific air sampling survey based on the enclosed findings will be included in the FY2013 IHIP.

   a. Have all HHIM data entered into the HHIM computer module.

   b. Use the report to help in correcting all deficiencies noted.

   c. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the present visits, especially if this will help eliminate health hazards and reduce medical surveillance cost.

   d. Contact the State Occupational Health Office, MAJ Fletcher, for any medical Surveillance that may be needed.

   e. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. The present report addressed to the local facility commanders was divided in such a way that personal data can be detached and kept by the OHM or blocked when forwarding these reports to other entities within the appropriate offices of MS ARNG. If additional information is needed please contact Non-Responsive, Regional Industrial Hygienist, NGB-AVN-SI, COMM. Non-Responsive

Non-Responsive

CF:
Non-Responsive Safety Manager, 1410 Riverside DR, Jackson, MS 39202.
cupational Health Nurse, 2497 N. West Street, Jackson, MS 39216.
CFMO MS ARNG, 2497 N. West Street, Jackson, MS 39216.

ENCL.
as

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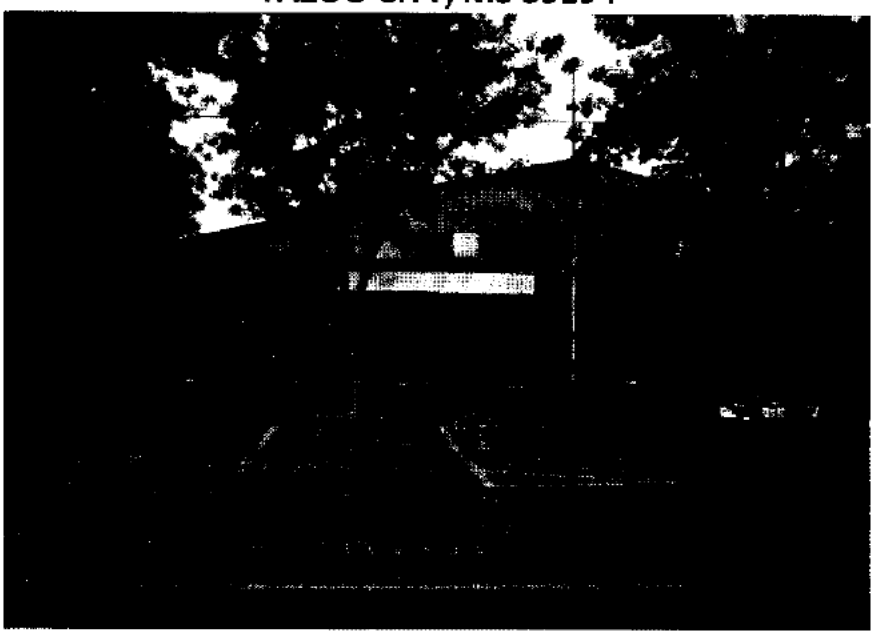
INDUSTRIAL HYGIENE SURVEY REPORT
FOR
Non-Responsive
MISSISSIPPI ARMY NATIONAL GUARD
(MSARNG)
2201 GORDON AVE
YAZOO CITY, MS 39194



Thru

Non-Responsive Region South
Industrial Hygiene Office, 510 Plaza Drive, Suite 1530,
College Park, GA 30348

By:

Non-Responsive
107 Orchard St
Walden, NY 12586
Ph. Non-Responsive

07MAY2012

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May, 2018

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1.0 INTRODUCTION:

At the request of Non-Responsive of the National Guard Bureau (ARNG) Region South Industrial Hygiene Office, Non-Responsive IH Surveying Inc. conducted a Baseline Industrial Hygiene Survey and walk through evaluation at the Mississippi ARNG armory located at 2201 Gordon Ave in Yazoo City, MS on May 7, 2012. The purpose of the survey was to evaluate health hazards and controls present in the workplace, collect bulk samples and or wipe samples (if necessary) to determine lead or asbestos exposures, perform illumination, ventilation and noise surveys, and make recommendations regarding health hazards associated with work at the site.

The facility was visually examined and site personnel interviewed regarding work activities, and type of materials/chemicals used during typical/atypical workdays, or stored on site.

Pre and Post Industrial Hygiene survey reports were held with Non-Responsive who was the assigned POC, at the time of the survey, Non-Responsive was unable to attend these meetings.

The writer would like to acknowledge the assistance and cooperation extended to him by site's population in general, and takes this opportunity to express his gratitude to all personnel.

2.0 FACILITY DESCRIPTION

This is a one story building which was constructed of concrete blocks with a brick outer layer for walls and concrete flooring in most areas. The building contains numerous offices, a classroom, a weapons vault, male and female latrines, a kitchen, a maintenance building, a supply room and utility closet. Flooring throughout the building is a combination of carpeting, tiles and concrete. All walls are either painted or have paneling on them. According to the POC, he was unaware if there ever was an Indoor Firing Range at this facility.

3.0 INSTRUMENTATION

The following instrumentation and/or sampling media were provided by the contractor and where necessary were used to obtain lead wipe samples, asbestos bulk samples, paint chip samples illumination and noise measurements.

TSI 8551	IAQ Meter	S/N 47116	calibrated on 08/17/2011
EXTECH 401025	Light Meter	S/N L570331	calibrated on 06/02/2011
Quest Q2700	Sound Level Meter	S/N HU3120048	calibrated on 08/05/2011
Quest QC-10	Calibrator w/Adapter	S/N QE4100294	calibrated on 08/05/2011
"Ghost wipes" lead dust wipes	no expiration date		

4.0 FINDINGS

4.1 Office Spaces.

Offices spaces were mostly equipped with the same furnishings. Desks, chairs, computer stations and were adjusted for ergonomic balance. While interviewing the employee at the armory that day, it appears that the temperature and humidity are satisfactory working conditions. There is no sign of mold or water damage on the floors or walls. The HVAC system effectively monitors and controls temperature and humidity. The offices appeared to be neat and orderly. There was a water jug outside of the office in the drill hall do catch condensation form the AC unit. (Picture in attachment)

4.2 Latrines

The latrines seemed in fair condition at the time of the survey. No outstanding issues needed to be addressed at the time of the survey.

4.3 Kitchen

The kitchen looked clean at the time of the survey. No issues noticed at this time.

4.4 Classroom

The classroom was in need of general housekeeping. The classroom was well light and there was no sign of damage to the ceiling tiles at this time.

4.5 Supply room

The supply room needed some general housekeeping. Lead swipe samples were taking in this area, since it is where weapons are issued and access to the vault is obtained. All samples were below the 20 ug.total.

4.6 Vault

The weapons vault at Yazoo City was well lit and had a dehumidifier in it. Lead swipe samples were taking inside and outside the immediate area of the weapons vault. Samples above the 20 ug.total are shown below.

Area Sampled	Readings above 20ug.total
Vault floor	30 ug.total

4.7 Drill Hall

The facility's drill hall has a concrete floor and concrete block walls. The area was very clean at the time of the survey. The ceiling is vaulted and has a lining inside. The inside of the roof seemed in good condition at the time of the survey. Between the lighting fixtures and the numerous windows, illumination standards were met or exceeded for a space this large. Lead swipe samples were taken from different areas of the floor. All readings were below the 20ug.total.

4.8 Maintenance Building/POL shed

The maintenance building is a sheet metal fabrication building. The POC states there in no maintenance performed at this facility other than PMCS. The building was clean and organized. The POL (petroleum/oil/lubricants) sheds were well vented and labeled properly.

5. Sampling

5.1 Noise Level

Readings throughout the main facility and the out buildings measured between 50 to 70 decibels "slow A scale". The only measureable noise was the video conference call in session and the background noise that could be heard in the outer buildings.

5.2 Radiation

Not applicable

5.3 Asbestos

No samples were taken at this site.

5.4 Illumination

The average illumination in the offices, conference room and classrooms was 53.6. See the table below for illumination values. These values show that some areas do not meet the recommended illumination standard. The following table reflects foot candle measurements noted during this survey.

Location		Foot Candles		IES Recommended Values
Offices, classrooms,		Average 62		50-100
Men's Latrine		Average 24		05/10/10
Ladies latrine		Average 30		05/10/10
Kitchen		Average 38		50/100

Drill Hall		Average 54	Bay door open	10/20/10
Vault		Average 38		10/20/11
Supply Rooms		Average 47		10/20/11
Maintenance Bay		Average 50	Door open	10/20/11

Recommended values from IES Lighting Handbook Application Volume 1987

6.0 Indoor Air Quality (IAQ)

Based on interviews, measurements and observations overall there is no technical or instrumental basis for IAQ concerns in this facility. No evidence of mold, extreme particulate build up or condensation on walls or floors. There are obvious roof leaks. Throughout the building the average temperature was 69.2 (DF) and the average humidity was 34.6. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 60% year round. Elevated humidity could promote growth of mold, bacteria and dust mites which can aggravate allergies and asthma. Carbon dioxide levels were very low and are a measure as to whether adequate volumes of fresh outdoor air are being introduced to indoor air. Outdoor levels of Carbon dioxide are usually 300-400 parts per million and indoor levels should be between 600-800 parts per million. The carbon dioxide levels in this facility did not exceed 530 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment. A maintenance record program of the HVAC system was not in place. There are a few HVAC grates missing along the duct system.

6.1 Ergonomics

Evaluation was on work areas such as computer location, chair type, desk height, line of vision and angles of hands and fingers. Interviews with the POC indicated no concerns at this time in this area of the survey.

6.2 Hazardous Materials

Materials used at this armory are standard in most armory sites. Haz-mat inventories are posted appropriately.

7.0 Indoor Firing Range

This facility never had an indoor firing range. However samples were taken in the cage storage area and all samples came back with readings below the reporting limit.

8.0 Technical Assistance

For technical assistance regarding information found in this report, please contact Non-Responsive Non-Responsive of the Southeast Regional Industrial Hygiene office at Non-Responsive

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8.1 References

Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA)

AR 40-5, Preventive Medicine, 25 May 2007.

AR 385-10, 29 February 2000, Army Safety Program.

TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, And Biological Exposure Indices (BEI's), 2009, ACGIH, Cincinnati Ohio

Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio

AR 11-34 Army Respiratory Protection Program, 15 February 1990

DA Pam 40-501, Hearing Conservation Program, 10 December 1998

NFPA 10: Standard for Portable Fire Extinguishers

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ATTACHMENT 1

RECOMMENDATIONS

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Based on interviews with the POC and other personnel as well as observations by Erik Miller IH Surveying Inc. staff and IAQ measurements, it appears the overall condition of this facility is good. The following issues below that need attention.

Clean all areas were the lead level measured above the 20 ug.total	***RAC 1***
Ceiling tiles that are damaged need to be replaced	***RAC 3***
Replace all lighting fixtures that may be broken or need new bulbs.	***RAC 3***
General housekeeping is needed in the supply closet and the kitchen.	***RAC 3***

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ATTACHEMENT 2

PHOTOS

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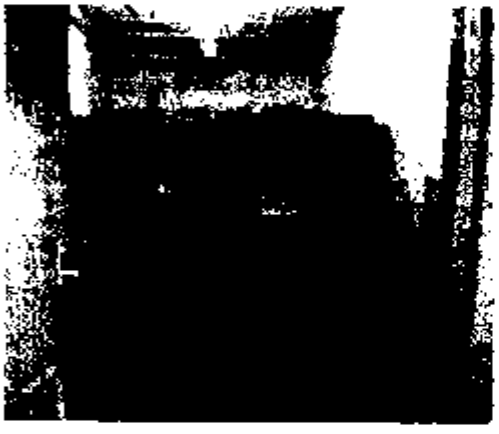
General Housekeeping needed in Kitchen

Water jug under AC to catch condensation



Office space

Men's latrine some lights out

Classroom, Clean and well lit

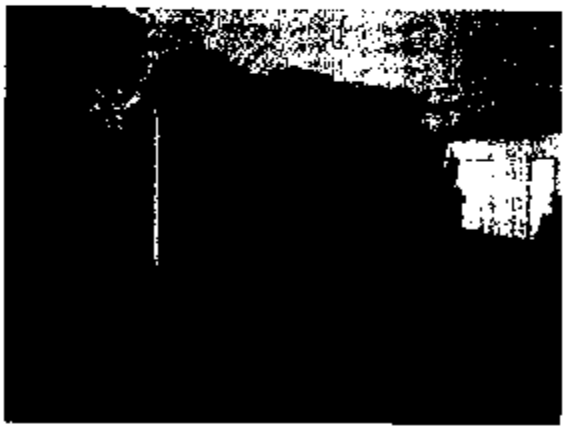
Supply Closet between bldg. entrance and Supply Office: Could use housekeeping

Drill Hall: clean and well lit. No leaks from the roof

Cold storage supply building: Clean and orderly

Supply cage: Good condition

Parking area for GOVs



POL Shed: Good condition, well ventilated

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AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 18, 2012

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
College Park GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Yazoo City

Dear Non-Responsive

Order No: 1205B17

Analytical Environmental Services, Inc. received 12 samples on 5/11/2012 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205B17

Date: 5/7/12 Page 1 of 1

COMPANY: National Guard Bureau Southeast Regional Industrial Hygiene Office

ADDRESS: 510 Plaza Dr Suite 1530
College Park GA 30349

PHO[redacted] Non-Responsive

FAX:

SA[redacted] Non-Responsive

SIGNATU[redacted] Non-Respon

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	001YC050712	05712	1300	X				VAULT FLOOR	
2	002YC050712			X				VAULT WALL	
3	003YC050712			X				VAULT DOOR IN	
4	004YC050712			X				CLOSET IN VAULT	
5	005YC050712			X				DOOR OUTSIDE	
6	006YC050712			X				DRILL HALL DOOR SAB	
7	007YC050712			X				DRILL HALL CTR	
8	008YC050712			X				DRILL HALL FLR	
9	009YC050712			X				FLOOR STORAGE ECR	
10	010YC050712			X				WALL STORAGE ECR	
11	011YC050712			X				BACK WALL (EFR)	
12	012YC050712		1415	X				BLANK	
13									
14		5/7/12							

[redacted] Non-Responsive

DATE/TIME: 5/11/12 10:30

3:

3:

SPECIAL INSTRUCTIONS/COMMENTS: [redacted] Non-Responsive

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
☐ CLIENT ☐ FedEx ☐ UPS ☐ MAIL ☐ COURIER
☐ GREYHOUND ☐ OTHER _____

PROJECT INFORMATION
PROJECT NAME: YAZOO CITY
PROJECT #:
SITE ADDRESS: GORDON AVE 2201 YAZOO CITY, MS
SEND REPORT TO: NGB
INVOICE TO: (IF DIFFERENT FROM ABOVE) NGB IH OFFICE
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
☑ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other _____

STATE PROGRAM (if any): _____
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: ☐ I ☐ II ☐ III ☐ IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED WITH STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) WW=Wastewater DW=Drinking Water O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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Analytical Environmental Services, Inc

Date: 18-May-12

Lab Order:	1205B17
Client:	National Guard Bureau Region-South III
Project:	Yazoo City
Matrix:	Wipe
Date Received:	5/11/2012 10:30:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1205B17-001A	001YC050712	30	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-002A	002YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-003A	003YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-004A	004YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-005A	005YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-006A	006YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-007A	007YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-008A	008YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-009A	009YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-010A	010YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-011A	011YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW
1205B17-012A	012YC050712	BRL	ug, Total	20	1		05/07/2012	05/16/2012	MW

Qualifiers: BRL - Not Detected at the Reporting Limit; DF - Dilution Factor

B - Analyte detected in the associated Method Blank

Results are blank corrected where applicable

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA ARMY National Guard Work Order Number 1205817

Checklist completed by Non-Responsive [redacted] 5/14/12
Si Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes __ No __ Not Present ✓

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (~~4°C±2°~~)* Yes ✓ No __ BM 5/14/12

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

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Client: National Guard Bureau Region-South IH
Project: Yazoo City
Lab Order: 1205B17

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205B17-001A	001YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-002A	002YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-003A	003YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-004A	004YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-005A	005YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-006A	006YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-007A	007YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-008A	008YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-009A	009YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-010A	010YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-011A	011YC050712	5/7/2012 1:00:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012
1205B17-012A	012YC050712	5/7/2012 2:15:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/16/2012	05/16/2012

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