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



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ARNG-CSG-P

15 July 2014

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: MAJ 2900 North Broadway, Ada, Oklahoma 74280

SUBJECT: Industrial Hygiene Baseline Survey of the Ada Armory.

1. References.

a. Report submitted 7 July 2014, Industrial Hygiene survey, LAE Consulting.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. at the occupational Safety and Health Office, an attempted Industrial Hygiene Survey was conducted at the Ada Armory.

b. The survey was conducted by Ms. of LAE Consulting.

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 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

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.

b. Make corrections to all findings and recommendations made in the report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

 If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS at Non-Responsive



Regional Industrial Hygienist

1 Encl.

MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

LAE CONSULTING

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

9 July 2014

MEMORANDUM FOR: Ada Armory, ATTN: Major Non-Responsive 2900 North Broadway, Ada, Oklahoma 74280

SUBJECT: Industrial Hygiene Survey of Ada Armory

1. References.

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- Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).
- b. AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 14 June 2010, Army Safety Program.
- Department of the Army Pamphlet, 40- 503, 2 April 2013, The Army Industrial Hygiene Program.
- e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- f. IES Lighting Handbook, Application 10th Edition, Illumination Engineering Society of North America.
- g. Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, and Biological Exposure Indices (BEI's), 2014, ACGIH, Cincinnati, Ohio.
- b. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.
- Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

 Purpose. The purpose of this survey was to conduct a baseline Industrial Hygiene survey of the Ada Armory. The facility was visually examined and personnel were interviewed for historical information related to the building and the operations performed.

 Background, At the request of the transformed of the National Guard Bureau Region South Industrial Hygiene Office, Ms. The transformed of LAE Consulting conducted an industrial hygiene survey at the Ada Armory on 25 June 2014.

4. <u>Facility Description</u>. The facility was renovated in 2013-2014. A new unit occupied the building March 2014. The building is one story structure housing offices, classrooms, two supply rooms, and gym and break room. The majority of the floors is stained and sealed concrete except in classrooms, distant learning center, the conference room and commanders offices.

Instrumentation. All instrumentation was operated according to manufacture's recommendations.

6. Findings.

(1,2)

a. Two supply rooms are located off the drill hall floor. A vaults store weapons. Activity in the vault was not observed. Weapons' cleaning had not been performed by this unit since occupying the building. Cleaning weapons within the building can release Lead dust into the building through the heating, ventilation and air conditioning system which can contaminate other areas within the building.

b. Illumination was surveyed throughout the Center. A copy of the illumination measurements can be found at the enclosure of the report. Lighting in administrative areas should be between 50-75 foot-candles (FC).

c. A drill hall is located at lower floor of the building. The drill hall serves as gather location for the National Guard units.

d. the Armory has a full kitchen (mess). There are no food service units. Food is consumed off premises during unit Drills. The kitchen was last used eight years ago.

> LAE Consulting 1218 Scattered Pines Court, Severa, Maryland 21144

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e. A locker room and gym now occupy the former induor firing range. The locker room is the area which was firing line and entrance and the gym near at the mirrored wall was the backstop and pit. A technician who was part of the task of removing and cleaning the range stated the range was disassembled and cleaned around 1988. A contract remediation company sci-up decontamination stations (change rooms) and provided Tyvex suits, respirators, and remediation equipment. National Guard soldiers of the Armory performed the remediation under the instruction of the contractor. The soldier stated that the sand was removed and disposed or through the remediation company. The floors where washed and the pit and a floor drain was filled with concrete. A small of sand was noticed along the wall near the sand and was not seen in other areas of the gym floor. The floor is covered with a heavy duty rubber carpet. There is no baseboard or coving along the wall. The sand was collected and analyzed for Lead. Lead was not detected in the sample. A copy of the Laboratory results can be found at the enclosure of the report. Fourteen Lead wipe samples and one blank was collected at various locations in the locker room, gym, drill hall, and kitchen. Lead wipe samples were obtained to observe if additional housekeeping measures need to be established. All Lead wipe surface samples are below the FPA standard of 40ug/ft2 and below the National Guard standard 200 ug/ft2 for Indoor firing range The table below indicates sample numbers and locations.

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Namp <u>ic</u> P	Santple Lawation	Sample Results
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i <u>PN-01-A</u> da	Down range at left wall 6 (eet up	1 1 1 2
Pb-00-Ada	Down range stright wall 4 teep up	<u> </u>
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Ph-04sAda	Door outside gym Z feet outside door	BRU
Pb-05-Ada	Fiour 2 feet into locker evous door	
Ph-IREAdu	Center of drill hall floor	1 BB() —
Po-07-Ada	Wilhin cage 27	INR .
Ph-U8-Ada	Floor center of front of cage 48	BR:
3%-09-A28	Within cage 41	BRI.
-m-Ill-Ada	Floor 4 feet in front of fire soon:	I BRI.
- Ph-IC-Ada	Stage floor	ski —
_2% 12 A2a	Top of cabinet in the Kitchen	BRI
26-11-Ada	Center of draft hall floor	ISRI.
76-14-Ada	Floor in gym residual of sand near left wall by mirror	URL.
		*ERU Sciew reporting firma-

f. Water was noticed on the Boor around a pipe of the fire suppression system. The area id located inside the fire suppression closet in the locker noom. Water stains were noticed on the acoustic ceiling near entrance to the locker noom. The construction contractor stated that the ceiling was installed during the renovation and not part of the original indoor firing range.

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

LAE Consulting

4 Encl

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- 1 Illumination Survey
- 2. HHIM
- 3. Photos
- 4. Laboratory results

CF: State Occupational Health Office, ATTN:

State Safety Office, ATTN

LAE Consulting 1218 Scatternal Freet Court, Severn, Maryland 21144

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8. Recommendations.

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a. Do not clean weapons within the building. Weapons cleaning must be performed outdoors of the facility or at the range. Do not use tables that maybe be used for food consumption to clean weapons. Develop and implement a written policy for weapons cleaning procedures. Contact the state Occupational Health office and the state Environmental office for assistance in developing guidelines. Develop and implement written procedures for the handling of hazardous materials after unit Drifts. (RAC 3)

b. Purchase desk lamps for administrative areas below 50 foot-candles. If facility illumination becomes an issue contact the state Occupational health office for further evaluation. (RAC 4)

c. No recommendations.

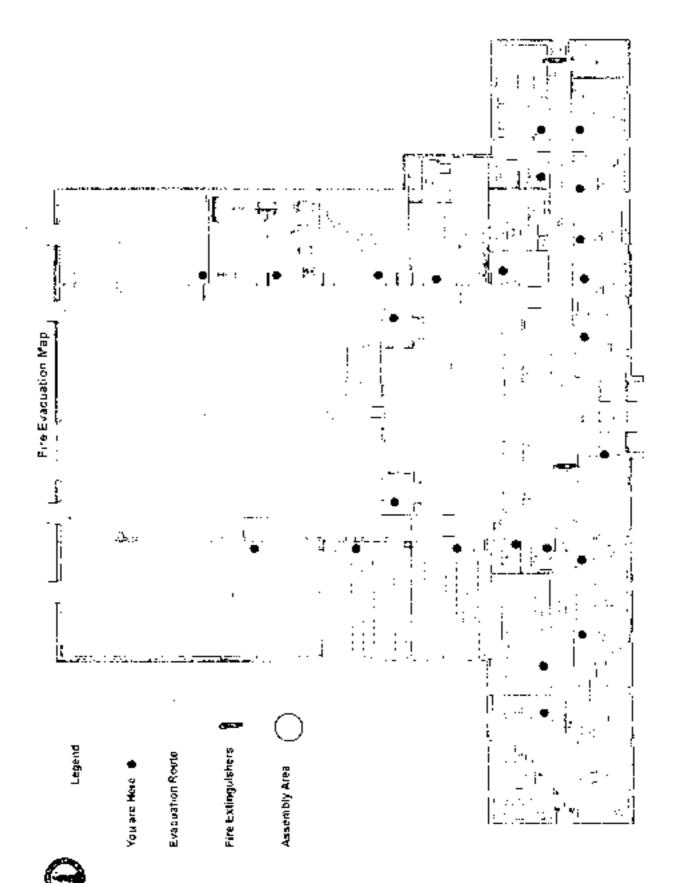
d. No recommendations.

 e. Recommond the regional Industrial Hygical office perform Lead wipe sampling in 10 years. (RAC 4)

 Contact the state bacility Engineers inspect and repair the source of the water teak. Monitor the ceiling tiles for water stains which maybe indicative to water intrusions from the roof. (RAC 4)

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ADA Readiness Center

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Ada Armory, Ada, Oklahoma Lighting Survey

Location	Actual Foot-candles	Required Foot-candles
Room 115- Gym	22.4-36.0	20-30
Rm 114- Breakroom	19.7-61.0	10-15
Rm 110- Classroom	58.0-67.0	50-75
Rm 112- 1245 th Transp.		
1SG Non-Responsive	39.2	50-75
SSG	30.1	50-75
2LT	44.3	50-75
2LT	39.9	50-75
Rm 112B-Distant	25.5-34.4	50-75
Learning		
Rm 112C-S3/SPO	21.6-24.3	50-75
Rm 113		
SGT	15.2-19.2	50-75
SGT	27.2	50-75
SSG	14.2	50-75
Recruiter	38.5	50-75
Rm 102	44.0/57.6	50-75
Non-Responsive	36.6	50-75
SGT SGT	16.8	50-75
CPT	46.1	50-75
Rm 103- Copier Room	64.9	50-75
Rm 108- Conference rm	37.9-46.5	50-75
Rm 106	43.1	50-75

* Bold indicates not within standards

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Ada Armory, Ada, Oklahoma Lighting Survey

Location	Actual Foot-candles	Required Foot-candles
Room 115- Gym	22.4-36.0	20-30
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SSG	30.1	50-75
2LT	44.3	50-75
2LT	39.9	50-75
Rm 112B-Distant	25.5-34.4	50-75
Learning		2024-001-0
Rm 112C-S3/SPO	21.6-24.3	50-75
Rm 113		
SGT	15.2-19.2	50-75
SGT	27.2	50-75
SSG	14.2	50-75
Recruiter	38.5	50-75
Rm 102	44.0/57.6	50-75
Non-Responsive	36.6	50-75
SGT	16.8	50-75
CPT	46.1	50-75
Rm 103- Copier Room	64.9	50-75
Rm 108- Conference rm	37.9-46.5	50-75
Rm 106	43.1	50-75

* Bold indicates not within standards

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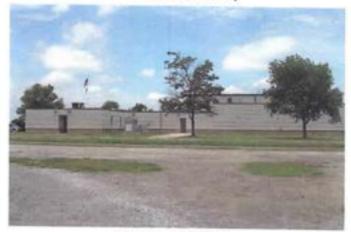
View of Ada Armory, located in Ada Oklahoma



Exterior view of Ada Armory



Exterior view of Ada Armory



Exterior view of Ada Armory



Rear view of Ada Armory



View of Ada Armory Drill Hall



View of Ada Armory motorpool



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View of the Armory Drill Hall



View of the former range (mirror area was the backstop) converted into a gym



View of the side wall where a shadow of the location of the backsop can still be seen



View of pain blistering in the drill hall



View of the Armory Breakroom



View of the gym





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View of the Locker room which was the former range (firing lines was the near the back wall)



View of the room exhaust located within the fan cover



View of Lead wipe sample 1, located on the left wall 6 feet up in the gym



View of Lead wipe sample 3, located on top of the TV in the gym



view of the locker room (down range view)



View of the wall supply air grill located in the locaker room



View of Lead wipe sample 2, located on the right wall 4 feet up



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View of Lead wipe sample 4, located on the floor 2 feet outside room 115 (Gym)



View of Lead wipe sample 6, located on the floor in the center in firont of cage 30



View of Lead wipe sample 8, located on the floor center in trant of cage 48



View of Lead wipe sample 10, located on the floor 4 feet in front of fire room



View of Lead wipe sample 5, located on the floor 2 feet into room 116 (locaker room)



Viwew of Lead wipe sample 7, located within cage 27 in the locker room



Vew of Lead wipe sample 9, located within cage 41 in the locker room



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View of Lead wipe sample 12, located on top of cabinet in the kitchen



View of Lead wipe sample 14, located at the source of sand



View of possible water leak on the floor in the fire suppresion room



View of Classroom in the Armory



View of Lead wipe sample 13, located on the center of Drill Hall floor



View of the fire suppresion room



View of water stain on the acoustic ceiling tile in the locker room



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 22 of 216



View of Transportation units orderly room



View of Transportation units orderly room



View of Distance Learning center

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

NGB-ARS-SEIH

4 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: 1SG Facility Supervisor, Chandler National Guard Armory, 800 West Thunderbird Road, Chandler, Oklahoma 74834.

SUBJECT: Industrial Hygiene Baseline Survey of the Chandler National Guard Armory.

1. References.

Report submitted 22 May 2013, Industrial Hygiene survey.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. the request of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the Chandler Armory.

b. The survey was conducted by Mr.

 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)



4. Recommendations.

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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.

b. Follow the few recommendations made by Mr. and in the attached report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

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

5. If additional	nformation is needed about the contractors report, please contact M. Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR
COMMERCIA	Non-Responsive
Non-Resp	onsive

Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Oklahoma Army National Guard Safety and Occupational Health Office, ATTN: MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

CHANDLER ARMORY 800 WEST THUNDERBIRD ROAD CHANDLER, OK 73834



Page 1

29 APRIL 2013

MEMORANDUM FOR: 1SG POC: Chandler Armory; located at 800 West Thunderbird Road Chandler, OK 74834

SUBJECT: Industrial Hygiene Survey of the National Guard Armory; located at 800 West Thunderbird Road Chandler, OK 74834

1. References.

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

- b. AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 29 February 2000, Army Safety Program.
- d. NG Pam 420-15, 3 Facilities Engineering November 2006
- TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.
- f. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- g. The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

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

Page 2

SUBJECT: Industrial Hygiene Survey of the Chandler National Guard Armory; located at 800 West Thunderbird Road Chandler, OK 74834

2. Purpose. The purpose of this visit was to conduct a baseline Industrial Hygiene survey of the Chandler National Guard Armory. The baseline survey included indoor air quality, noise, illumination, lead and asbestos surveys and sampling when necessary. The facility was visually examined and the various shop personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Mr. Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office in College Park, GA, Non-Responsive was contracted to conduct the baseline industrial hygiene survey at the National Guard Armory in Chandler, OK. 1SG

4. Facility Description. The armory is a one story building which has the following; administrative offices, classrooms, supply areas, a kitchen, weapon vault(s), a drill hall, latrines, conference rooms and an indoor firing range (which has been converted).

Instrumentation. All instrumentation was operated according to manufacturer's recommendations. All instruments have been calibrated properly and within the last 8 months.

6. Findings.

a. There were a few ceiling tiles that appeared damaged and stained.



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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 28 of 216

b 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 were no obvious roof leaks at the time of the survey. Throughout the building the average temperature was 71.7 (DF) and the average humidity was 35.8. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 70% year round. Elevated humidity could promote growth of mold, hacteria and dust mites which can aggravate affecties 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 lovels should be between 600-800 parts per million. The carbon dioxide levels in this facility did not exceed 559.7 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment, although it appeared to be in need of servicing as mentioned earlier. At the time of the survey there was no record of a maintenance record program of the HVAC system.

Office/Areas	IAQ_CO2.ppm /Temp/HM/CO	Office/Areas	IAQ_CO2 ppm /Temp/HM/CO
Weapons Vault HHB	565/68/30/0	Rm 118	706/73/33/0
Weapons Vault G700	4\$1/69/30/0	Rm 112	568/71/34/.1
Supply	474/73/36/0	Rm 119	629/70/34/0
Office/ IFR Converted	615/73/35/.1	Rooms 101-111 Avg	562/72/37/0
Gym/ JFR Converted	598/73/40/.2	Female Latrine	472/71/40/.1
Storage/ IFR Converted	631/72/38/1	Drill Hall	529/72/37/0
Break room	7:4/70/37/1	Locker Room	469/73/41/0
Male Latrine	409/73/43/0	Rim 114	427/73/35/0
Conference Room	633/75/34/0	Mechanical Room	623/70/34/.1

Page 4

 Illumination was surveyed throughout the building. A small number of lights were burned out or not working. All readings are in foot candles. Levels were as follows.

Öffice/A reas/Equipment	Humination Foot Candles (ftc) # Lights/Fic/Windows/# of lights out	Meets: IES Lighting Handbook
Weapons Vault HHB	47.50FW 0	Yes
Weapons Vault G700	2/ 32/ 0/ 0	Yes
Supply	12/47/0/0	Yes
Office/ IFR Converted	12/55/0/0	Yes
Gyn/ IFR Converted	12/68/0/0	No
Storage/ IFR Converted	3/ 17/ 0/0	Yes
Break room	4/76/0/0	Yes
Male Latrine	67407070	Yes
Conference Room	6/ 66/ (V ()	Yes
Run 118	37727070	Yes
Rm 112	4/ 70/ 1/ 0	Yes
Rm 119	242/0/0	Yes

Rooms 101-110 Avg	2/ 38/ 1/ 0	Yes
Female Latrine	6/48/ 0/ 0	Yes
Doll Hall	1873270F1	Yes
Locker Room	9/ 29/ 0/ 0	Yes
Rm 114	77 100/ 170	Yes
Mechanical Room	1/13/0/0	Yes

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d. Sound level measurements were performed in all work areas of the facility. There is no significant reading, which would put personnel in harm's way. The Average reading for the facility is 51 dBa.

Office/Areas/Equipment	Noise dBa	Exceeds Noise 85 dBa Sto
Weapons Voidt HHB	50	No
Weapons Vault G700	50	No [
Supply	50	No
Office/ IFR Converted	50	No
Gyn/ IPR Converted	54	No
Storage/ IFR Converted	50	No
Break room	50	No
Male Latrine	50	No
Conference Room	50	No
Rm 118	60	No
Rm 112	50	No
Rm 119	53	No
Rooms 101-110 Avg	50	No
Female Latrine	50	No
Drill Hall	50	No
Locker Room	50	No
Rm 114	50	No T
Mechanical Room	50	No

c. Weapons Vauli: The weapons vault was tested for lead levels, lead swipe samples were taken and sens to AES Inc. Results of the samples are listed below.

F	Sample Site	Result/Units ug.	Reporting Limits
	Vault Floor HHB	80	20
•	Vault left Wall HHB	BRL	20
,	Vault Door In HHB	BRL	20
	Blank	BRL	20

Supply Floor	BRL	20
Vault Floor G700	BRL	20
Right Wall Vault G700	BRL	20
Vault Door In G700	BRL	20
Floor Outside Vault G700	BRL	20
Vault Door Outside	58	20
IFR Right Wall Office	BRL	20
IFR Left Wall Office	BRL	20
IFR Storage Vent	BRL	20
Drill Hall Floor Center	BRL	20
IFR Gym	21	20
Drill Hall Floor Bay Door	BRL	20

BRL: Not detected at the reporting limit

- f. Asbestos: Insulation around pipes appeared in good condition at the time of the survey. No samples taken.
- g. The flammable cabinet was orderly and the MSDS was accessible.



h. The converted IFR floor was starting to chip and samples were taken. POC states they were told to not put any supplies or storage items in this area of the IFR.

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

Page 6

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 31 of 216

9. Attachments

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- 1. Recommendations
- 2. Photos
- 3. Lab Results

Page 7

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Based on interviews with the POC and other personnel as well as observations by Higher HIH Surveying Inc. staff and IAQ measurements, it appears the Chandler Armory was neat and orderly at the time of the survey. The only recommendations are listed below.

- Determine where leaks are coming from, either from the roof, AC duct work or overhead piping. Then replace broken and stained ceiling tiles. Clean all vents annually or as needed. RAC 3
- Numerous areas tested for lead levels came up above the reporting limit for the lab but not over the ARNG standard of 200ug. All areas that showed levels above the 20ug. Can be cleaned and by using normal floor detergent and water. No health risk is present at this time. RAC 4

Page 8

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 33 of 216



Weapons vault HHB 1/60th



Weapons Vault G 700



Readiness area



Vent in converted IFR



Office area



New Insulation covering pipes



Remodeled latrines



Remodeled latrines



Drill Hall



Storage area



Classroom



Conference Room

Page 10



GOV Parking

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.



May 02, 2013

Ion-Responsiv

National Guard Bureau Region-South IH 510 Plaza Drive, Suite 1530 College Park GA 30349



RE: Chandler Armory

Dear Non-Responsive

Order No: 1304066

Analytical Environmental Services, Inc. received 16 samples on 4/26/2013 2:50:00 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 07/01/12-06/30/13. -AIHA-LAP, LLC Laboratory 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.



Project Manager

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ANALYTICAL ENVIRONMENTAL SERVICES, INC 3785 Presidential Parkway, Adamta GA 30340-3704

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FOIA Requested Record #J-15-0095 (GK) Released by National Guard Bureau Page 38 of 216 PRESERVATIVE CODES

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ALYTICAL ENVIRONMENTAL SERVICES, INC 5 Presidential Parkway, Addanta GA 30340-3704

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FOIA Requested Record #J-19-0985 (00%) Released by National Guard Bureau Page 39 of 216

Analytical Environmental Services. Inc.

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per tel contactor

FOIA Requested Record #J-15-0085 (OK) Released by National Guard Boreau 5 Page 40 of 216

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Analytical Environmental Services, Inc.

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Sample/Cooler Receipt Checklist

Ilient_ National Guard Bureau Southeas	ł	Work Orde	r Number	1304 066
Checklist completed by Signature Da	26/13			
Carrier name: FedEx UPS Courier Client U	US Mail Oth	er	-	
Shipping container/cooler in good condition?	Yes	No	Not Present	-
Custody seals intact on shipping container/cooler?	Yes	No	Not Present	Y
Custody seals intact on sample bottles?	Yes _			× ×
Container/Temp Blank temperature in compliance? (492+2)* Yes	No XI	e 4/29/13	
Cooler #1 Antiont Cooler #2 Cooler #3	Cooler #4	co	oler#5	Cooler #6
Chain of custody present?	Yes 1	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 Appl	icable
Water - VOA vials have zero headspace? No VOA vials	s submitted 🗹	Yes	No	
Water - pH acceptable upon receipt?	Yes	No	Not Appl	icable
Adjusted?	c	hecked by		
Sample Condition: Good Other(Explain)				0
(For diffusive samples or AIHA lead) Is a known blank inc	cluded? Y	'es	No L	

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

ARNG-CSG-P

13 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: SFC 2500 West Blue Starr Drive, Claremore, Oklahoma 70417.

SUBJECT: Industrial Hygiene Baseline Survey of the Claremore Armory.

1. References.

 a. Report submitted 10 May 2013, Industrial Hygiene survey, Non-Responsive IH Surveying.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

 j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the Claremore Armory.

b. The survey was conducted by Mr. the Responsive IH Surveying.

 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

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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.

b. Make corrections to all findings and recommendations made in the report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

5. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR COMMERCIAL Non-Responsive



Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Claremore Armory, Claremore Oklahoma 19APRIL2012



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 44 of 216



28 APRIL 2013

MEMORANDUM FOR: SFC POC: Claremore Armory; located at 2500 West Blue Starr Drive Claremore, OK 70417

SUBJECT: Industrial Hygiene Survey of the Claremore National Guard Armory; located at 2500 West Blue Starr Drive Claremore, OK 70417

1. References,

.

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

- b. AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 29 February 2000, Army Safety Program.
- d. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.
- e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- f. The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

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

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

- i. AR 11-34 Army Respiratory Protection Program, 15 February 1990
- j. DA Pam 40-501, Hearing Conservation Program, 10 December 1998

Page 1

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 45 of 216

SUBJECT: Industrial Hygiene Survey of the Claremore National Guard Armory; located at 2500 West Blue Starr Drive Claremore, OK 704172.

2. Purpose: The purpose of this visit was to conduct a baseline Industrial Hygiene survey of the Claremore National Guard Armory. The baseline survey included indoor air quality, noise, illumination, lead and asbestos surveys and sampling when necessary. The facility was visually examined and the various shop personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Mr. Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office in College Park, GA, Non-Responsive was contracted to conduct the baseline industrial hygiene survey at the National Guard Armory in Claremore, OK. SFC was the POC at the armory.

4. Facility Description. The armory is a one story building which has the following; administrative offices, classrooms, supply areas, a kitchen, the drill hall, latrines, conference rooms, indoor firing range (which has been converted). The armory appeared to have been recently renovated.

Instrumentation. All instrumentation was operated according to manufacturer's recommendations. All
instruments have been calibrated properly and within the last 8 months.

6. Findings.

a. All ceiling tiles looked in new condition at the time of the survey, except for one.



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b. 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 were no obvious roof leaks at the time of the survey. Throughout the building the average temperature was 70.9 (DF) and the average humidity was 32. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 70% 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 507 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment, although it appeared to be in need of servicing as mentioned earlier. At the time of the survey there was no record of a maintenance record program of the HVAC system.

Office/Areas	IAQ CO2 ppm /Temp/HM/CO	Office/Arcas	IAQ CO2 ppm /Temp/HM/CO
RM 101	522/70/32/0	RM 114	472/73/33/0
RM 102	562/73/33/0	RM 115	515/72/33/0
RM 103	547/70/33/0	RM 116	487/70/35/0
CLASSROOM	481/66/33/.1	RM 117	523/70/41/0
RM 105	460/70/35/0	RM 118	529/72/34/ 0
RM 107	487/72/33/0	RM 119	481/73/33/0
RM 108	455/68/33/0	VAULT	626/66/33/0
RM 109	528/70/33/.1	LATRINES	460/72/34/0
RM 110	570/71/34/0	DRILL HALL	497/70/32/0
RM 111	534/73/33/0		

Recommendations: None at this time

c. Illumination was surveyed throughout the building. A small number of lights were burned out or not working. All readings are in foot-candles. Levels were as follows:

Office/Areas/Equipment	Illumination Foot Candles (ftc) # Lights/Ftc/Windows/# of lights out	Meets: IES Lighting Handbook
RM 101	6/ 100/ 2/ 1	Yes
RM 102	6/ 34/ 0/ 0	Yes
RM 103	6/ 62 /0/ 1	Yes
CLASSROOM	12/ 68/ 0/ 2	Yes
RM 105	6/ 100/ 4/ 0	Yes
RM 107	6/ 60/ 0/ 0	Yes
RM 108	2/ 57/ 2/ 0	Yes
RM 109	2/ 59/ 2/ 0	Yes
RM 110 ELECTRICAL	1/ 22/ 0/ 0	Yes
RM 111	13/32/0/3	Yes
RM 114	5/ 42/ 0/ 1	Yes
RM 115	2/ 48/ 0/ 0	Yes

RM 116	2/ 46/ 0/ 0	Yes
RM 117	2/46/ 0/ 0	Yes
RM 118	2/ 48/0/ 0	Yes
RM 119	2/ 46/ 0/ 0	Yes
VAULT	1/40 / 0/ 0	Yes
LATRINES AVG	4/ 36/ 0/ 1	Yes
DRILL HALL	24/38/0/6	Yes

d. Sound level measurements were performed in all work areas of the facility. There is no significant reading, which would put personnel in harm's way. The Average reading for the facility is 50 dBa.

Office/Areas/Equipment	Noise dBa	Exceeds Noise 85 dBa Std
RM 101	49	No
RM 102	50	No
RM 103	50	No
CLASSROOM	48	No
RM 105	50	No
RM 107	50	No
RM 108	50	No
RM 109	50	No
RM 110 ELECTRICAL	52	No
RM 111	50	No
RM 114	50	No
RM 115	50	No
RM 116	50	No
RM 117	50	No
RM 118	52	No
RM 119	50	No
VAULT	50	No
LATRINES AVG	50	No
DRILL HALL	48	No

e. Weapons Vault: The weapons vault was tested for lead levels, lead swipe samples were taken and sent to AES Inc. Results of the samples are listed below.

Sample Site	Result/Units ug.	Reporting Limits
VAULT FLOOR	BRL	20
FRONT WALL VAULT	BRL	20
VAULT DOOR IN	BRL	20
RT WALL VAULT	BRL	20
OLD IFR/RM 115	BRL	20

Non-Resp	onsive

OLD IFR/RM 116	BRL	20
BLANK	BRL	20
OLD IFR/RM 117	BRL	20
OLD IFR/RM 118	BRL	20
OLD IFR/RM 119	BRL	20
DRILL HALL FLOOR CTR	BRL	20
DRILL HALL FLOOR BY SUPPLY	BRL	20
DRILL HALL FLOOR BAY DOOR	BRL	20

BRL: Not detected at the reporting limit

Findings: all samples came back below reporting limits

- Asbestos: All insulation was in good shape, no fraying or crumbling found at the time of the survey. No samples taken.
- g. The flammable cabinet was maintained. The MSDS binder was easily accessible if needed.



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Storage/electrical equipment

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

- 8. Attachments
 - 1. Recommendations
 - 2. Photos
 - 3. Lab Results

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Based on interviews with the POC and other personnel as well as observations by Based IH Surveying Inc. staff and IAQ measurements, it appears the Claremore Armory is need of the following recommendations:

e)

- Recommendation: Evaluate tile of the next few months and if stain increases in size, find the cause of the leak and replace the tile
 RAC 3
- Recommendation: For levels not meeting the illumination standard. Lights that are out or broken should be fixed. In other areas supplemental lighting could be used.
 RAC 3

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Claremore Drill Hall



Latrine



Custodial closet/door blocked



Classroom



Office Space



Office space



Supply/Storage area/old IFR



Gym



Break room



Supply/Storage area/old IFR

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Supply/Storage area/old IFR



Supply/Storage area/old IFR



Supply Area



Weapons Vault

Analytical Environmental Services, Inc.

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Date: 5-7-2013

LEAD ON WIPES (N9100/7082) N7082

CLIENT:	National Guard Bureau Region-South III	Lab Order:	1304O80
Project:	Clarentore Arraety	Date Received:	4/26/2013 2:50 PM
Delivery Order:		Matrix:	Wine
PO No:			

Laboratory	Client Sample	Results	Units	Report Limit.	OF	Date	Date	Analyst
ID	UU			1.IM34.		Collected	Analyzed	
1304O80-001A	001C1.X 0419	BRL	og, Tatal	20	Ι	4/14/2013	5(1)2013	TAA
1304(380-002)4	082CLA 9419	HRC.	ug, Total	20	Т	J119 2013	5(1)2013	ŤAA
1304OK0-903A	091CLA 9419	BRL	ug, Total	20	Т	4119.2013	5/1/2013	FAA
1304080-804A	004CLA 0419	BRI.	ng, Total	20	Т	4 19 2035	5/1/2013	TAA
1304O80-005A	005CLA 491.9	BRL	ug. Fotal	20	Т	4 19 2013	5.1/2013	TAA
30408046064	006CEA DHM	BRI.	ag. Tetai	20	ι	4 19 2013	5 1 2013	ľaa.
1004O80-ID&A	00×CEA 0419	BRL	ug, Tets)	20	Т	4/19/2010	5.1.2013	LAA
1304OS0-009A	00VCLA 0419	883	ng, Total	26	ι	4-19-2017	5.1.2013	TAA
1304080-010A	010CLA 0419	BRL	ug, Tutak	20	:	4-19-2017	5/1 2013	TAA
1304O80-011A	011CLA 0419	BRI.	ug. Lotal	20	t	4/1N-2012	5-4-24413	TAA
1394080-012A	01201A-0419	881.	ug, Toul	20	1	4-14-2013	5 1-2013	IAA
120-030-013A	013CI A 0419	BRI.	ug total	26	1	4-14-2010	\$ 1-2013	TAA

Qualificers ISRL Nos Detected with: Reporting Littlet

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

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

ARNG-CSG-P

October 8, 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: MAJ Executive Officer, Durant Readiness Center, 99 Waldron Road, Durant, Oklahoma 74701.

SUBJECT: Industrial Hygiene Baseline Survey of the Durant Readiness Center.

1. References.

a. Report submitted 8 October 2013, Industrial Hygiene survey, Pinnacle IH,

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

 IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. The second of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the Durant Readiness Center.

b. The survey was conducted by Mr.

 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

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.
- b. Follow all recommendations made by Mr. and an the attached report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

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

5. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR



Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Dccupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Oklahoma Army National Guard Safety and Occupational Health Office, ATTN: MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Oklahoma Army National Guard CSMS/SMMO, ATTN: LTC 3745 Thunderbird Street, Norman, OK 73069 Initial Baselfile Industrial Hygiene Survey 7 August, 2013 OK Army National Guard Durant Readiness Center 99 Waldron Rd. Durant, OK 74701



Prepared For: Dept of the Army and Air Force National Guard Bureau Regional Industrial Hygiene Office Region South 510 Plaza Drive, Suite 1530 College Park, Georgia 30349 By Non-Responsive

DBA: Pinnacle IH

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Appendix D – Drawings of Facility
Appendix E ·· Photographs of Facility
Appendix F – HHIM Forms
Appendix G – Personnel Roster

Nat Guard armary Durant, Oklahoma

EXECUTIVE SUMMARY:

An Initial Baseline Industrial Hygiene Survey was conducted at the National Guard Readiness Center in Durant, OK on 7 August, 2013, as part of the Arkansas Army National Guard Occupational Health Program, to identify potential health hazards in the workplace. The survey consisted of conducting lead wipe samples from the weapons vault and general areas of the facility, illumination survey, noise evaluation, review of the MSDS inventory, interviews with personnel assigned to this facility on a daily basis, and a walkthrough of the building, to evaluate the general condition as it relates to indoor air quality.

TOPIC	SUMMARY OF FINDINGS	RECOMMENDATIONS
Lead Dust sampling in Weapons Vaults	Low levels of lead in dust were detected in three of the samples in the HHT weapons vaults. See Table 1.	Recommend using a wet method to clean the HHT weapons vault floor, to prevent the buildup of lead. See Recommendations Pg. 9
MSDS Inventory	The MSDS inventory was in the process of being updated at the time of the survey.	Recommend to complete the MSDS inventory updates ASAP and post them on the Flammables cabinet and in the MSDS binder. See Recommendations Pg. 9

MEMORANDUM FOR: MAJ

INTRODUCTION

At the request of Mr. At the best of the with the National Guard Bureau South Region Industrial Hygiene Office, a Baseline Industrial Hygiene Survey was performed by Non-Responsive at the Durant, OK Readiness Center on 7 August, 2013. The purpose of this survey was to evaluate any Health Hazards that may be present at the facility. The POC for this survey was SFC Non-Responsive

The Readiness Center was reportedly built around 1962, and was remodeled about 15 months ago. It contains several offices, cubicle area, a classroom, conference room, meeting area, break room, storage rooms, cage areas, drill hall, supply rooms for two units, gym, and two large latrine/locker rooms. A mezzanine was added to the drill hall, and is used to store lockers primarily. There was an old IFR in this armory, and it was part of the remodeling project. The floors are sealed, but not painted or tiled. The walls are painted, and no drop ceiling. The IFR was divided up into 4 separate cage areas, for section equipment only. No personnel work in what was the former IFR. Outside there is a fenced-in Motor Pool area and a large number of Conex storage units. Reportedly, most Conex units contain section equipment, and one of them contains POL. Nearby there is a decommissioned FMS shop that is presently being used by A-Troop until approximately January 2014. At that time, the HHT unit is expected to use the building for storage only.

Two units are assigned to this facility. They are the HHT 1-180 CAV, and TRP A 1-180 CAV. A-Troop is here temporarily, while their armory is being remodeled. There are 15 full time troops here, and no contractors or civilians. Between the two units, there are a total of approximately 150 Mday troops assigned. Personnel reported that the only time young children are in the drill hall is for the Family Day drill weekend in December. It was stated that Camp Gruber typically provides the food for drill weekends.

METHODOLOGY

The following instruments and testing methods were used during this survey:

- Extech Light Meter, Model 407026, S/N Q638144
 - o Calibrated 18 July, 2013
 - Illumination readings were taken from all work areas, approximately four feet from the floor, and compared to IES (Illuminating Engineering Society) and ANSI RP7-1991 recommendations.
- Quest Sound Level Meter (SLM), model 2200. S/N KOL070046.
 - Calibration Certificate 281229KOL070046.
 - SLM was set to Slow on the A-scale. Range setting was 60-120dba.
- · Ghost Wipes (To test for the presence of Lead in dust)
 - Unscented "baby wipes" were used to sample one square foot areas in the weapons vaults and supply rooms, and maintenance bays. The samples were sealed, and sent to an AIHA accredited laboratory for analysis.
- The survey of the facility included photographs of the building and areas of interest, a walkthrough of the facility, and informal discussions with the POCs.

SURVEY FINDINGS

BUILDING CONDITION

The building is reported as structurally sound, with no roof leaks or chronic issues. In 2005 the roof was replaced. All areas were neat and clean at the time of the survey. There were no mold issues reported or observed during the survey, and no reports of standing water around the building foundation. Lighting and ventilation was excellent overall. There were no visible signs of moisture damage to ceiling tiles, walls, or floors. Latrines and locker rooms were neat and clean. Conference rooms were neat and clean. The grounds outside appeared to be maintained well, with no standing water or evidence of mold or mildew around the building. The building structure appeared to be in good repair.

DECOMMISSIONED FMS SHOP

A walk-thru of the entire decommissioned FMS shop was performed. The maintenance bays are used for storage, and there are a few offices and a latrine that are all in serviceable condition. There is a working vehicle wash bay that was in use during the survey. Reportedly, only water is used in this wash bay. An examination of the oil and water separator appeared to only contain dirty water.

MOTOR POOL

There is a Motor Pool area in the back of the facility. All vehicle maintenance is performed at either Camp Gruber or Fort Chaffee.

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Nat Guard armory Durant, Oklahoma

PERSONNEL

There are 15 full time military personnel assigned to this readiness center. Through interviews with the readiness officer, there were no reports of excessive noise, eye strain, muscle strain, repetitive motion issues, back strain, or ergonomic issues. Employees work a 10-hour day. It was also stated that there are no concerns with water or air quality, and that employees are generally in good spirits, with no chronic sicknesses or other health issues affecting the staff. PT is conducted daily in the drill hall. It was reported that personnel are not asked to perform heavy lifting.

MSDS

SFC is responsible for the MSDS inventory for the entire armory. The supply sergeant for the HHT is SFC is and for the A Troop the supply sergeant is SSG is the The hazardous products are stored in the Flammables cabinet located in the drill hall. MSDS info is posted in the drill hall and on the Safety bulletin board. SFC is the was in the process of updating the MSDS inventory at the time of the survey.

LEAD WIPE SURVEY

SFC settimated that weapons are cleaned at this readiness center up to six times per year, in the drill hall and section cage areas. Samples for lead in dust were taken from the drill hall, converted IFR, supply rooms, and the HHT weapons vault. The weapons vault for the A Troop was not accessible at the time of the survey. There were several samples taken from the HHT weapons vault that tested positive for lead in dust, but all were well below the NGB limit of 200 micrograms per square foot. One other sample from the converted IFR tested positive for lead in dust, but was also well below the NGB limit. See Table 1.

CONVERTED IFR

The former Indoor Firing Range at this facility was part of an extensive remodel project that was finished about 15 months ago. The floors are sealed, but not painted or tiled. The walls are painted, and no drop ceiling. The IFR was divided up into 4 separate cage areas, for section equipment only. No personnel work in what was the former IFR. Lead wipe samples were taken throughout this area. One sample tested positive for lead in dust, but was well below the NGB limit of 200 micrograms for a storage area such as this. See Table 1.

ILLUMINATION SURVEY

When this readiness center was remodeled 15 months ago the lighting was upgraded as well, reportedly. The light fixtures are relatively new, and are now on motion sensors. The walkthrough inspection revealed no bad bulbs or faulty ballasts. Results of the survey showed light measurements meeting or exceeding IES (Illuminating Engineering Society) and ANSI RP7-1991 guidelines throughout all areas of the facility occupied by NG personnel. Refer to Table 2 for survey results.

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Nat Guard armory Durant, Oklahoma

DRILL HALL

Monthly Mday drills are held in the drill hall, with approx 150 troops in attendance. No civic or public activities are held in the drill hall during the year, reportedly. The drill hall appeared to be clean, and in good condition. PT for the full-time troops is held regularly in the drill hall. There were large stand-alone fans for cooling, and several heaters mounted near the ceiling. Personnel reported that no vehicle maintenance is performed in the drill hall, and that vehicles are not left running in the drill hall for any length of time. Lighting was upgraded when the building was remodeled, and exceeded IES guidelines for illumination levels. A new mezzanine was added during the remodel project, and contains cages and lockers for troops. The drill hall was sampled for lead in dust, with no samples testing positive.

SUPPLY ROOMS

There is a supply room for each of the two units in this facility. The supply room for A-Troop was not accessible at the time of the survey. The HHT supply room was neat and clean, with lighting exceeding IES recommendations. No flammable or hazardous materials were observed in the supply room. Lead in dust sampling was performed in the supply room and weapons vault. Three samples in the vault tested positive for lead in dust, but were well below NGB limits. See Table 1.

NOISE

Personnel did not report any loud, persistent noises that caused them concern. The loudest noise seemed to be coming from the a/c registers, due to the low ceilings in the facility. A noise level meter showed the noise levels near some registers to be in the high 60dba range, which is still in the safe range.

HVAC SYSTEM

The HVAC system seemed to be in very good condition. There were no odors detected, and temperatures inside the building were very comfortable. There were no complaints about the HVAC system, and no chronic health conditions related to indoor air quality were reported. A contract company handles the maintenance of the HVAC system, including changing the monthly filters.

TABLE 1 (LEAD WIPE TEST RESULTS)

SAMPLE LOCATION	Surveyor's Field No	RESULT un/ft
Weapons Vault - HHT 1-180 CAV	JPR253	25
Weapons Vault - HHT 1-180 CAV	JPR254	52
Weapons Vault - HHT 1-180 CAV	JPR255	24
Weapons Vault - HHT 1-180 CAV	JPR256	BRL
Weapons Vault - HHT 1-180 CAV (Blank)	JPR257	BRL
Supply Rm - HHT 1-180 CAV	JPR258	BRL
Supply Rm - HHT 1-180 CAV	JPR259	BRL
Supply Rm - HHT 1-180 CAV	JPR260	BRL
Supply Rm - HHT 1-180 CAV	JPR261	BRL
Amory Drill Hall	JPR262	BRL
Amory Drill Hall	JPR263	BRL
Armory Drill Hall	JPR264	BRL
Armory Drill Hall	JPR265	BRL
Armory Drill Hall (Blank)	JPR266	BRL
Converted IFR (Storage)	JPR267	BRL
Converted IFR (Storage)	JPR268	BRL
Converted IFR (Storage)	JPR269	BRL
Converted IFR (Storage)	JPR270	BRL
Converted IFR (Storage)	JPR271	BRL
Mens Latrine	JPR272	BRL
Womens Latrine	JPR273	BRL
Locker Room	JPR274	23
Storage Closet	JPR275	BRL

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.

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TABLE 2 (ILLUMINATION TEST RESULTS)

LOCATION	LIGHT READING (foot candles)	IES Recommendation (foot candles)
Room 114 Mens Latrine	60 Avg	5-10
Room 134 Womens Latrine	50 Avg	5-10
Rm 119 Main Entrance Foyer and Hallway	50+ Avg	10-20
Hallway near Readiness Office	50+ Avg	10-20
Hallway near Break Room	50+ Avg	10-20
Room 122 Work area / meeting area	55 Avg	20-70
Break Room	90 Avg	20-50
Room 104 Squadron XO Office	55 Avg	50-100
Room 103 Squadron Commander	55 Avg	50-100
Room 109 Gym	60 Avg	20-30
Room 121 Commander Office	65 Avg	50-100
Room 122 SIPA (Not Accessible)	n/a	n/a
Room 123 Network Equip Closet	50 Avg	10-20
**Room Command Sgt Maj *Might have bad ballast*	35 Avg	50-100
Room 126 Conference Room	60 Avg	30-100
Room 124 Large Cube area for S1 and S4 shops	60 Avg	50-100
Room 133 Recruiters Office	50 Avg	50-100
Room 128 Large Cube Area	60 Avg	50-100
Room 130 Mechanical Room	55 Avg	20-50
HHT Weapons Vault	50 Avg	20-50
Room 139 HHT Supply Room	75 Avg	20-50
Drill Hall	40 Avg	10-20
Drill Hall Mezzanine	65 Avg	10-20
Room 121 Classroom	100 Avg	20-100
Room 121 Classroom	60 Avg	50-100
Room 120A and 120B Classroom	70 Avg	30-70
Room 108 SGToffice	85 Avg	50-100
Room 136 Electrical Room	65 Avg	20-50
Readiness Office	90 Avg	50-100
Room 118a Cage Area	17 Avg	10-20
Room 118b Cage Area	20 Avg	10-20
Room 118c Cage Area	18 Avg	10-20
Room 118d Cage Area	20 Avg	10-20
Room 116 Medical Readiness NCO Office	50 Avg	50-100
Room 114 Medical Supply Storage	40 Avg	20-50
Decommissioned FMS Office	80 Avg	50-100
Decommissioned FMS Bay	30 Avg	10-20
Decommissioned FMS Latrine	30 Avg	5-10
Decommissioned FMS Office of Bay	65 Avg	50-100

*Deficient Areas. Please note comments describing faults.

RECOMMENDATIONS

- Use the report to help in correcting all deficiencies noted.
- Recommend to clean the floors and gun racks in the HHT weapons vault, using the wet method described in NG PAM 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges. (RAC 2)
- Continue to ensure that weapon maintenance and cleaning is performed at Camp Gruber or Ft. Chaffee. Practice good personal hygiene by washing hands after handling weapons and ammunition. (RAC3)
- Correct discrepancies that may be discovered in the update of the MSDS inventory. Ensure to
 perform semi-annual inventories and updates of all MSDS's on all chemicals in the facility.
 Ensure all hazardous chemicals are stored in appropriate locations. Establish an inventory roll
 up sheet to manage the chemical inventory, and update the MSDS when new materials arrive
 and old ones are replaced. Ensure that troops have knowledge of the location of the MSDS
 books, and are enrolled in annual Hazard Communication training. (RAC3)

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). 1999, 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.
- NG PAM 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 503, The Army Industrial Hygiene Program, February 1985.
- Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.
- Title 29 CFR, Part 1910. 1200, The Hazard Communication Standard.
- DG 415-1, Design Guide for Armories



.

APPENDIX A

Lab Test Results

Analytical Environmental Services, Inc

Lab Order:	1308B37
Client:	Pinnacle IH
Project:	Durant OK Armory
Matrix:	Wipe
Date Received:	\$ 13-2013 5 00 00 PM

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LEAD ON WIPES (N7082	6
N7082	

Laboratory ID	Client Sample ID	Retail	Umirs	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Anales
1309B37-00LA	JPR253-VAULT	25	118.Q.	20	\$		08/07 201)	08/20/2013	TA
1308B37-002A	JPR254-VAULT	52	ug th'	20	1		08-07-2013	08/20/2013	TA
1308B37-003A	JPR255-VAULT	24	4. g th'	.20	1		08/07 2013	08-20-2013	TA
1308B37-004A	JPR256-VAULT	BP.L	$\mu g \pm^{i}$	20	1		08 07 2013	08 20 2013	TA
130EB37-005A	JPP.237-VAULT BLANK	BRL	4g-0*	20	1		08-07-2018	OE 20 2015	TA
1308B37-006A	JPR238-SUPPLY RM	BP1	$\mu g \pi^i$	20	1		08/07 2013	05/20/2013	TA
1308B37-007A	JPR259-SUPPLY RM	BP1.	100.00	.20	1		08/07/2018	08 20 2013	TA
1308B37-008A	JPR260-SUPPLY RM	BRL.	$\mu g : \mathfrak{M}^*$	20	1		08/07 2018	08/20/2013	TA
1308B37-009A	7PR261-SUPPLY RM	BRL.	110 111	20	1		4102 10 80	08 20 2013	TA
1308B37-010A	JPR 362-DRILL HALL	BP.1.	4g 11-	20	1		08/07/2013	08 20 2013	TA
1308B37-011A	MR.263-DRILL HALL	BRL	45 ft*	20	1		08 07 2013	08 20 2013	TA
1308B37-012A	PRIMADRILL HALL	BR1	40.44	20	1		05:07:2013	05 20 2015	TA
1308B37-013A	JPR265-DRILL HALL	BRL.	$\mu g \ {\rm th}^{\prime}$	20	3		05:07:2013	08/20/2013	TA
1308B37-014A	JPR. 266-DRILL HALL BLANK	BP1	up th'	20	1		8102 70 20	08 20 2013	TA
1308B37-015A	JPP.267-IFP.	BP.L	49 th'	20	1		08 07 2013	08 20 2013	TA
1305B37-016A	JFP.268-IFP.	BP.1.	HE 11'	20	5		08 07 2013	08 20 2013	TA
1108937-017A	JPE.269.IFE	BRI.	119.22	20	1		08.07.2013	08/20/2013	TA
1108B37-018A	JPR270-JFR	BPL.	HE	20	1		08/07/2013	08 20 2013	TA
1308B37-019A	JPP.271-IFP.	BF1	49.27	20	1		08/07/2013	08 20 2013	TA
1308B37-020A	JPP:272-IFP:	BP.L	48 th	20	1		08 07 2013	08 20 2013	TA
1308B37-021A	JPP.273-IFP.	BPL	ug n'	20	1		08-07/2013	08-20-2013	TA
130EB37-022A	JPP.274-JFP.	23	4g 11'	20	1		08-07-2013	08-20 2013	TA
1308B37-023A	JPE275-JFR (BLANK)	BPL	11 g 121	20	1		08 07 2013	08-20 2013	TA

Qualifiers BRL - Not Detected at the Reporting Limit

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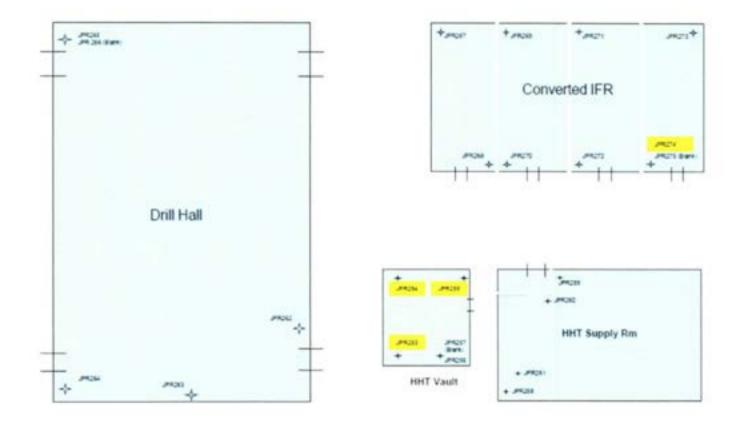
207 - Delation Parton

Results are black contested where applicable.

Nat Guard armory Durant, Oklahoma

APPENDIX B Drawing of Sampled Areas Highlighted samples indicated Lead in Dust

Durant, OK Readiness Center



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Nat Guard armory Durant, Oklahoma

7 August, 2013

APPENDIX C Photographs of Areas Sampled for Lead in Dust



JPR265 Drill Hall

JPR274 Remodeled IFR



JPR273 Remodeled IFR





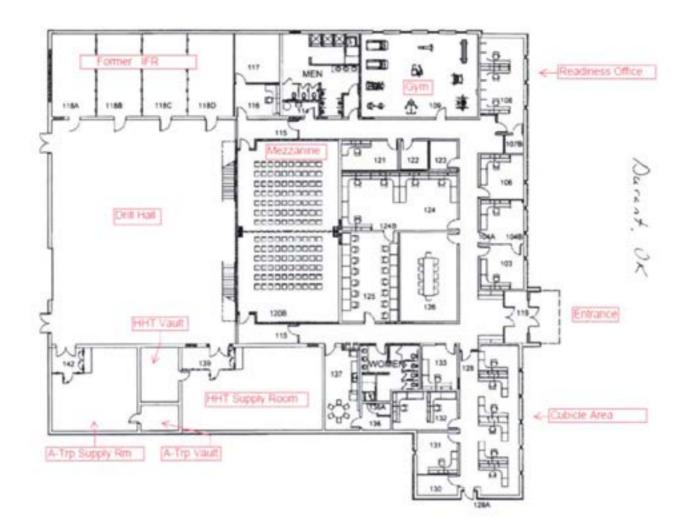
JPR254 Weapons Vault



JPR255 Weapons Vault

FOIA Requested Record #J-15-0085 (OK) Page 13 Released by National Guard Bureau Page 72 of 216

APPENDIX D DRAWING OF FACILITY



Nat Guard armory Durant, Oklahoma

APPENDIX E PHOTOS OF FACILITY



Bldg Rear View

Decommissioned FMS





Motor Pool









Conexes



Nat Goord armory Duront, Oklahoma

Flammable Cabinet and MSDS Binder



Remodeled IFR





Mechanical Room





Gym



Nat Guard ormary Dorant, Oklahoma

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APPENDIX F HHIM FORMS

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

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2. GLOVES	R/A	3. EYES/PAGE	R/A	4. HEARING	R/A	8. 800Y	R/A	4. HEAD/FOOT	R/A
ACID	1	CHEMICAL/SPLASH	1	MUFFS	1	APRONS	1	HARD HATS	1
CIL	1	SAFETY/IMPACT	-	EARPLUOS	1_	COVERALLS	1	IMPERMEABLE BOOTS	
BOLVENTS	11	CHEMICAL/SAFETY	-4-	CANAL CAPE	1	FULL BODY SUIT	1	BAFETY CONDUCT SHOES	4
		FULL PACE SHIELD	11	HELMETS	1	HAPPETV BELT	1	TIVE SHICES	1 / 1
HOT SURFACES	1					DARAY BEELENT			
COLD SURFACES	12	WELDING HELMET	1		_	PONT SELFACT	1		-

ECTION 4. HAZARD INVENTORY DATA

	. HAZARD DESCRIPTION	L PAG UT EPC	MEDRIAL
2439-92-1 20-15FTENE 2-FALLOSE	Heart Berlinales		
HA Form 271, 1	MAR 88 (TEST) IHSHB MO-IF	7 Perstaus editions of this fa	ren are a spale

Pinnacle IH

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 76 of 216

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7 August, 2013

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FOIA Requested Record #J-15-0085 (OK) Page 18 Released by National Guard Bureau Page 77 of 216

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7 August, 2013

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LAL CODE	. HAZARD DESCRIPTION		& MEDICAL SURVEILLANCE HECONIMENDED
00-10T	Eya/Hand Strain-Computer Work for Eat periods.		
20-5781255 7439-92-1	Least Particulates	2	No

EHA Form 271, 1 MAR 88 (TEST)

(HSHB-MO-IF) Previous editions of this form are to spole ...

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Page 19 FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 78 of 216 1.2

SECTION S. . SAMPLING DATA

. HAZARD	A BAMPLE	C RESULTS	
Lead J. Dust	Wipe	Sie Report	

SECTION 6.

PERSONNEL DATA

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SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

() No health issus reported from personnel () Dierall condition of Secility was very good.

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7 August, 2013

APPENDIX G PERSONNEL ROSTER

Durant, OK



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



NGB-ARS-SEIH

4 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: SFC Facility Supervisor, Edmund National Guard Armory, 600 South Bryant Ave, Edmund, Oklahoma 73034.

SUBJECT: Industrial Hygiene Baseline Survey of the Edmund National Guard Armory.

1. References.

Report submitted 22 May 2013, Industrial Hygiene survey,

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. and Mrs. and

b. The survey was conducted by Mr.

 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

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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.
- b. Follow the few recommendations made by Mr. in the attached report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

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

S. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR



Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Oklahoma Army National Guard Safety and Occupational Health Office, ATTN: MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.



EDMUND ARMORY 600 SOUTH BRYANT ST EDMUND, OKLAHOMA 73034



Page 1

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 83 of 216

23 APRIL 2013

MEMORANDUM FOR: SFC POC: Edmund Armory; located at 600 South Bryant Ave Edmund, OK 73034

SUBJECT: Industrial Hygiene Survey of the National Guard Armory; located at 600 South Bryant Ave Edmund, OK 73034

1. References.

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

- b. AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 29 February 2000, Army Safety Program.
- d. NG Pam 420-15, 3 Facilities Engineering November 2006
- e. TB MED 503, The Army Industrial Hygicne Program, 30 October 2000.
- f. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- g. The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

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

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

- j. AR 11-34 Army Respiratory Protection Program, 15 February 1990
- k. DA Pam 40-501, Hearing Conservation Program, 10 December 1998

SUBJECT: Industrial Hygiene Survey of the Edmund National Guard Armory; located at 600 South Bryant Ave Edmund, OK 73034

 Purpose. The purpose of this visit was to conduct a baseline Industrial Hygiene survey of the Edmund National Guard Armory. The baseline survey included indoor air quality, noise, illumination, lead and asbestos surveys and sampling when necessary. The facility was visually examined and the various shop personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Mr. Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office in College Park, GA, Non-Responsive was contracted to conduct the baseline industrial hygiene survey at the National Guard Armory in Edmund, OK. SFC was the POC at the armory.

4. Facility Description. The armory is a two story building which has the following; administrative offices, classrooms, supply areas, a kitchen, weapon vault(s), a drill hall, latrines, conference rooms and an indoor firing range (which has been converted). Very few offices on the bottom floor are being occupied.

Instrumentation. All instrumentation was operated according to manufacturer's recommendations. All
instruments have been calibrated properly and within the last 8 months.

6. Findings.

a. Numerous ceiling tiles appeared damaged and stained.





b. 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 were no obvious roof leaks at the time of the survey. Throughout the building the average temperature was 69.3 (DF) and the average humidity was 33.6. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 70% 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 576 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment, although it appeared to be in need of servicing as mentioned earlier. At the time of the survey there was no record of a maintenance record program of the HVAC system.

Office/Areas	IAQ CO2 ppm /Temp/HM/CO	Office/Areas	IAQ CO2 ppm /Temp/HM/CO
Vault C Co. 179th	532/66/33/0	Det 1 HHC	607/73/33/.1
Supply area	612/73/32/0	Conference room	539/71/35.0
Vault Portable A Co. 179th	530/73/32/.1	A Co. Readiness	521/73/32/0
IFR/Supply	621/64/33/.2	A Co. Supply	535/72/37/.0
Supply C Co.	537/73/33/.2	A Co. Readiness NCO	587/73/38/.2
Vault (2) A Co. 179th	601/74/35/0	Latrines avg	612/72/37/.0
Drill Hall	623/63/33/.2	Locker Room	548/74/36/.0
Admin	598/74/34/0	Platoon Rooms avg	603/64/33/.1
CMDR Office	511/73/34/.1	Custodial room	628/73/41/.1
Det 1 HHC Scout Rm	567/73/35/0	Medical Supply Rm	549/73/35/0
Recruiters Office Avg	612/73/36/.1	Meeting room	534/72/33/0



c. Illumination was surveyed throughout the building. A small number of lights were burned out or not working. All readings are in foot-candles. Levels were as follows:

Office/Areas/Equipment	Illumination Foot Candles (ftc) # Lights/Ftc/Windows/# of lights out	Meets: IES Lighting Handbook
Vault C Co. 179th	2/ 20/ 0/ 1	Yes
Supply area	6/ 34/ 0/ 0	Yes
Vault Portable A Co. 179th	2/6/0/2 Was informed lights on order	No
IFR/Supply	5/ 15/ 0/ 0	No
Supply C Co.	4/26/ 0/ 0	No
Vault (2) A Co. 179th	2/ 53/ 2/ 0	Yes
Drill Hall	18/31/4/6	Yes
C Co. Readiness	2/80 /1 /0	Yes
Admin	4/ 63/ 1/ 0	Yes
CMDR Office	4/ 70/ 0/ 1	Yes
Det 1 HHC Scout Rm	12/46/0/0	Yes
Det 1 HHC	3/ 65/ 3/ 0	Yes
Conference room	3/ 48/6/ 0	Yes
A Co. Readiness	3/41/ 3/ 0	Yes
A Co. Supply	4/76/ 0/ 0	Yes
A Co. Readiness NCO	2/ 26/ 5/ 0	Yes
Latrines avg	2/ 32/ 0/ 1	Yes
Locker Room	12/36 / 0/ 0	Yes
Platoon Rooms avg	2/ 42/ 0/ 0	Yes
Custodial room	3/ 35/ 0 /0	Yes
Medical Supply Rm	12/40/0/1	Yes
Recruiters Office Avg	2/36/0/0	Yes
Meeting room	1/9/ 0 /0	No

d. Sound level measurements were performed in all work areas of the facility. There is no significant reading, which would put personnel in harm's way. The Average reading for the facility is 50 dBa.

Office/Areas/Equipment	Noise dBa	Exceeds Noise 85 dBa Std
Vault C Co. 179th	50	No
Supply area	52	No
Vault Portable A Co. 179th	50	No

IFR/Supply	50	No
Supply C Co.	48	No
Vault (2) A Co. 179th	52	No
Drill Hall	50	No
C Co. Readiness	56	No
Admin	58	No
CMDR Office	46	No
Det 1 HHC Scout Rm	56	No
Det I HHC	50	No
Conference room	56	No
A Co. Readiness	50	No
A Co. Supply	50	No
A Co. Readiness NCO	48	No
Latrines avg	50	No
Locker Room	50	No
Platoon Rooms avg	50	No
Custodial room	58	No
Medical Supply Rm	50	No
Recruiters Office Avg	55	No
Meeting room	50	No

e. Weapons Vault: The weapons vault was tested for lead levels, lead swipe samples were taken and sent to AES Inc. Results of the samples are listed below.

Sample Site	Result/Units ug.	Reporting Limits
A Co. Vault Floor	38	20
A Co. Vault rt Wall	BRL	20
A Co. Vault Door in	BRL	20
A Co. Vault Door out	BRL	20
IFR Floor	BRL	20
BLANK	BRL	20
IFR Front Wall	BRL	20
IFR Bay door	BRL	20
IFR Left Wall	BRL	20
C Co. Vault Floor	27	20
C Co. Vault Rt wall	38	20
C Co. Vault Door	BRL	20
C Co. Supply Floor	41	20
A Co. Vault Floor (2)	40	20
A Co. Vault Rt Wall (2)	BRL	20
A C o. Shelves in Vault (2)	BRL	20

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A Co. Vault Door (2)	58	20
A Co. Supply Floor (2)	25	20
Drill Hall floor Ctr	BRL	20

BRL: Not detected at the reporting limit

- f. Asbestos: Insulation around pipes appeared in good condition at the time of the survey. However there was an area cordoned off by the Adjunct ant Generals office due to asbestos.
- g. The flammable cabinet were blocked and binders not accessible.



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

- 9. Attachments
 - 1. Recommendations
 - 2. Photos
 - 3. Lab Results

Page 7

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Based on interviews with the POC and other personnel as well as observations by IIII III Surveying Inc. staff and IAQ measurements, it appears the Edmund Armory is need of the following recommendations:

- Determine where leaks are coming from, either from the roof, AC duct work or overhead piping. Then replace broken and stained ceiling tiles. Clean all vents annually or as needed. RAC 3
- For levels not meeting the illumination standard. Lights that are out or broken should be fixed. In other areas supplemental lighting could be used. RAC3
- Housekeeping needs to be addressed. The status of cleanliness for the platoon rooms, the locker room and some offices are perfect breeding grounds for insects and rodents. RAC3
- Numerous areas tested for lead levels came up above the reporting limit for the lab but not over the ARNG standard of 200ug. All areas that showed levels above the 20ug. Can be cleaned and by using normal floor detergent and water. No health risk is present at this time. RAC 4
- Replace missing shower drain covers to prevent injury to personnel.
 RAC 4



A Co. 179th Weapons Vault/Portable



A Co.179th Supply Area/Old IFR



A Co.179th Supply Area/Old IFR



C Co. 179th Weapons Vault



C Co. 179th Weapons Vault



Downstairs room sealed due to Asbestos



Edmund Drill Hall

040



Insulation/no fraying or crumbling



Drain cover missing/Could be a hazard



Gym



Basement/leak along wall

Classroom





Leak into light fixture

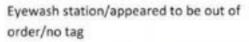
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Tiles taken up/never replaced









Office

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Office

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Supply



Vehicle parking

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 94 of 216



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 03, 2013

Von Responsive

National Guard Bureau Region-South IH 510 Plaza Drive. Suite 1530 College Park GA 30349



RE: Edmund Armory

Dear Non-Responsive

Order No: 1304077

Analytical Environmental Services, Inc. received 19 samples on 4/26/2013 2:50:00 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 07/01/12-06/30/13. -AIHA-LAP, LLC Laboratory 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.



Project Manager

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FOIA Requested-Record #J-15-0085 (OK) Released by National Gupagi Bgrane Page 96 of 216

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FOIA Requested Record #J-15-0085 (OK) Released by National Gups Screece Page 97 of 216

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Analytical Environmental Services, Inc.	BEST AVAILABLE COPY
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Date: 3-May-()

Client: Not stud Guard Buscar Region South [1] Project: Educated Assocry Lab ID: 1504017

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Case Narrative

Sample information on the Charton Custody did not earth that on the sample bottle labels for samples [130407740]. 13040774002, 1304077403, 1304077403, 13040777014, (304077403, 1304077403, 13040774018, 13040774018). Samples were entered into the system output the information provided on the Chart of Fusiody, per clarat request. _--

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Analytical Environmental Services, Inc.

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3-May-19 Deter

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Lab Order:	1364077
Client:	National Guard Burene Region-South II (
Projecta	Edinard Anney
Matrix:	Wipe
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LEAD ON WIPES (N9100/7082)

N7082

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Analytical Environmental Services, Inc.

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Sample/Cooler Receipt Checklist

client National Guard Bureau Southeast		Work Ord	er Number 1304 0'7 9	
Checklist completed by United ByUnited By _	126/13			
Carrier name: FedEx UPS Courier Client U	S Mail Oth	ar	_	8
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? (4922)	• Yes	No L	Le +29/13	
Cooler #1 Ambi 4 Cooler #2 Cooler #3	Cooler #4	c	ooler#5 Cooler #6	_
Chain of custody present?	Yes 🖌	No		
Chain of custody signed when relinquished and received?	Yes Z	No		
Chain of custody agrees with sample labels?	Yes _	No K	5 DE	
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?	C	hecked by _		
Sample Condition: Good V Other(Explain)				
(For diffusive samples or AIHA lead) Is a known blank inc	huded? Y	es	No Z	

See Case Narrative for resolution of the Non-Conformance.

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

LQuality Assurance/Checklists Procedures Sign-Off Templates/Checklists/Sample Receipt Checklists/Sample_Cooler_Receipt_Checklist

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



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ARNG-CSG-P

7 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: Non-Responsive 1400 Airport Road, Holdenville Oklahoma 74848.

SUBJECT: Industrial Hygiene Baseline Survey of the Holdenville Armory.

1. References.

a. Report submitted 7 May 2013, Industrial Hygiene survey, LAE Consulting.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

 IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. How Resconsive of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the Holdenville Armory.

b. The survey was conducted by Ms.

of LAE Consulting.

Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

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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.

b. Make corrections to all findings and recommendations made in the report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

5. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR



Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

MAJ Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

1 May 2013

MEMORANDUM FOR: Holdenville Oklahoma Armory, ATTN: 1400 Airport Road, Holdenville, Oklahoma 74848

SUBJECT: Industrial Hygiene Survey of Holdenville National Guard Armory, Holdenville, Oklahoma

1. References.

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- 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.
- IES Lighting Handbook, Application Volume 2005, Illumination Engineering Society of North America.
- g. Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, and Biological Exposure Indices (BEI's), 2007, ACGIH, Cincinnati, Ohio.
- b. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1998, Hearing Conservation.
- Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- NG Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.
- k. Title 40, Code of Federal Regulations (CFR) Part 745, Lead, Identification of Dangerous Levels of Lead: Final rule.
- TG-18, Installation Pest Management Program Guide, Armed Forces Pest Management Board

SUBJECT: Industrial Hygiene Survey of Holdenville National Guard Armory, Holdenville, Oklahoma

2. <u>Background</u>. At the request of the Responsive of the National Guard Bureau Region South Industrial Hygiene Office the Responsive of LAE Consulting conducted an industrial hygiene survey at the Holdenville National Guard Armory, Holdenville, Oklahoma on 9 April 2013. The purpose of the survey was 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. <u>Facility Description</u>. The facility is one story structure which houses the 1/160th Field Artillery Battalion. 91 guardsmen are assigned to the armory. A readiness NCO, Administrative NCO, and a Supply technician work full time in the Armory 10 hrs for 4 days a week. The facility was remodeled in October 12. The unit returned from Kuwait in April 2012.

4. Findings.

a. The carpet in the classroom was wet along the wall adjacent to the women's shower. The slope of the shower floor is allowing the water to intrude under the wall into the classroom. The bathroom was part of the facility remodel. The grouting in the bathroom was poorly applied.

b. Mold and water stains were observed on ceiling tiles in the classroom. The roof of the facility had been repaired.

c. Illumination was surveyed throughout the building. Motion sensor lighting was installed during the renovation. The areas listed below are below the standards required in reference f. The findings are as followed in Foot-candles (FC):

AREA/LOCATION	MEASURED FC	REQUIRED FC
Room 100, at computer	29.8	50
Room 102, left workstation	23-30.3	50
Room 103, workstation	15.7-52.3	50
Room 104, computer	35.0	50
Room 106, Classroom II	28-64	50
Supply Storage	0.6-29.7	20-30
Room 108 Classroom 1	4.9-46.8	50
Breakroom	2.0-26.3	30
Room 112, at computer	29.2	50

Table 1

LAB Controlling, 1218 Seattered Pines Court, Severn, Maryland 21144 Telephones (400) 551-2712

SUBJECT: Industrial Hygiene Servey of Holdenville National Guard Armory, Holdenville, Oklaboma

d. A deactivated indoor tiring range is currently being used as a locker room and gyru. All associated range equipment has been romoved. The ventilation system and ducting has been removed. The date of the range cleaning is unknown. Eighteen I cad wipe samples and one blank were taken in various locations throughout the range and the Annory. Sample locations and results are in the table 2 below. A copy of the laboratory report can be found in the coclosure of this report.

		×
14	٤D)	 _
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Sample 8	Location	Results
	Left rear former tackstop wall] ISR[
F <u>-</u>	Floor at former backstop center, locker 150	<u>34 ng 0²_</u>
	Priwall at former backstop area, 5 feet up between lot	ker 42.43 BR1.
i 4	Floor right side 1 foot from wall locker 105/12	8 36 ug <u>11</u>
_, · _	Right wall end of wall locker 119.5 feet up	Bat
r - 6	Hoar, right sure end of treadmill	
7	Left wall 6 feet up , hetween lotker 05 (R)	BRI BRI
8	Top of wall locker 26	Ψ <u>υ αρ</u> ήτι
	Former Observation wall : (classt press) 6 [cot u	p BRG.
<u> </u>	Ceiluse near former backstop (former exhaust are	a) BRI.
· · · · · ·	Fluin, 1 foor outsule entrance to deactivated rang	ge <u>37 ug R² 1</u>
<u> </u>	Eloor, Center of Disil Hall	<u>96 up 5</u> ²
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	Top of grey file cabinet in the Dall Hall	86 ug 11
15	Shell in sitelien under 5 compartment sitik	<u>30 ug fri </u>
	Classroom L top of pookease near hallway	
<u> </u>	Room 101, top of first desk crecenza	BRI.
1 ¹⁸	Room 112, top of file cabiner in Read pess NCO of	BRL BRL
Blank !	Blank	
	• 810 - wyto (143-2)	along reporting loosts

e. Paint is flaking from the Armory ceiling and littering the floor. The ceiling appears to be a plastic material coated with pain. Moisture may have caused paint to blister and flake. An Employee stated that the falling chipped paint resembles falling snow when the garage doors are opened. A bulk paint chip sample was obtained and analyzed for Lead in Paint. The results indicated that the paint in the ceiling does not contain Lead. A copy of the laboratory report can be found in the enclosure of the report.

1 ALE - Green 12 & Assertion and Article Street, March 2004 Theory and March 2007

14,915

SUBJECT: Industrial Hygiene Survey of Holdenville National Quard Armory, Holdenville, Oklahoma

f. Mice have infested the Armory. Droppings were observed in a closet storing the Heating, ventilation, and cooling systems and in the sopply room. Dead mice were observed on old glue boards. Mouse barrowing is occurring in an exterior wall in the Sopply room. The facility is does not have an integrated pest management (IPM) program. Contract pest control is new performed on an as needed basis. IPM programs monitor and identify pests: establish prevention methods: establish control measures when and if prevention does not eliminate the pest. Scorpions and crickets are also a concern with the Armory. Employees stated that lots of scorpions are in the hallways we they arrive to work in the morning. Crickets are also a seasonal issue at the Armory.

g. Soil crosson was observed around some of the splash guards at the downspouls. Deep rule, are along the foundations and in the grass which maybe allowing water intrusion under the foundation.

h. The Drill Hall is used to store equipment from recent move and deployment. A HUMMV and LTMV are stored in the drill half because of inclement weather. The flammable cabinet storing Spray paints, Oil, lubricants, and transmission fluids are stored in flammable cabinets located on the Drill flots.

i. Supply usom is located off the Drill Hali. Lite supply usom has a weapons vanit. The Armory does not have an Armor technician and weapons are sent to the Norman Oklohoma. Combined Support Maintenance Snop. An old debumidifier is in the room but was not on.

I. V. Arasadaryj
 (2) Stress and Phase constraints of March 20144
 (2) Stress - 102 593 (2014)

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SUBJECT: Industrial Hygiene Survey of Holdenville National Guard Armory, Holdenville, Oklahoma

5. <u>Technical Assistance</u>. For technical assistance, regarding information found in this report, please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office at Non-Responsive

LAE Consulting

4 Encl

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- 1. Building Diagram
- 2. HHIM
- 3. Facility Photos
- 4. Laboratory Results

LSF Consulting 1218 Scattered Pines Coort, Severa, Maryland 21144 Telephone: (440) 551-2717

Page 5

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 107 of 216 SUBELCT: Industrial Hygiene Survey of Callman National Guard Armory, Cullman, Alabama 🗹

6. Recommendations.

a. Recommend the Oklahoma Facility Engineer office inspect and repair the tile flooring in the harbroom. Immediately dry the carpet with fans when water has infiltrated into the classroom. Monitor the carpeting for mold and mildew growth. (RAC 4)

b. Replace all stained and molded certing tiles. (RAC 4)

c. Consider purchasing supplemental lighting such as desk lamps and a floor lamp. (RAC 3).

 d. Recommend the state Safety and Occupational Floath office review the Lead wipes sample results of this facility to determine if hutber sampling and/or decontamination is needed. (RAC 3)

e Recommend the Oklahoma Facility Engineer office replace the ceiling (RAC 4)

f. Establish and implement an integrated Post Management (IPM) Program for the control of rodents, scorptons, crickets, and other post. Hire/contract a conidicit post control company. Forsize the company performs IPM. Require that the post control company makes twice weekly visits until rodent population is eliminated and/or controlled. Contact the state environmental office and the Oklahoma facility engineers and the state Safety office for assistance with the IPM program (RAC 3).

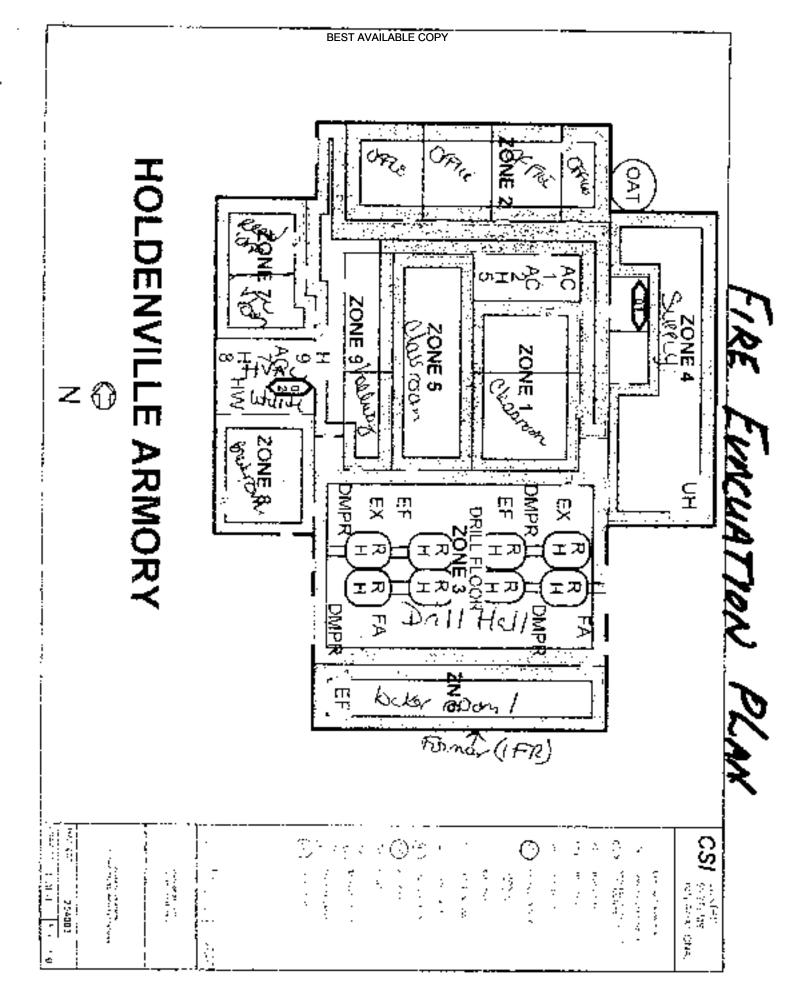
g. Recommend the Facility Engineer office inspect and repair soil erosion issues around the building's foundation

b Ensure that vehicles are not staned and idling in the drill hall. Ensure vehicle maintenance not performed in the drill hall. If point and Oil and lubricants are not needed, tom-in the items as waste, (RAC 4)

 Replace the debumidation in the vault. Continue to discourage weapons repair and maintenance within the vault and supply room. (RAC 3)

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See attached sheet

No comments.

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View of Holdenville Armory, Holdenville, Oklahoma



View of male latrine shower floor were water pools in the corner



Mold and water stained ceiling tileslocated in the main conference room



View of water infiltration under the sill in the office.



View of male latrrine shower floor were water pools in the corner



View of water infiltration (wet carpet) onto carpet in the main classroom water is from the shower located along the opposite wall



Mold and water stained ceiling tiles located in the main conference room



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 119 of 216



View of soil erosion at the buildings foundation



View of soil erosion



View of mouse droppings in HVAC area



View of dead mouse in storage area



HVAC area 2 of the Annory



View of dead mouse in HVAC area



View of rodent droppings on air condioning unit in HVAC room



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 120 of 216



View of the Supply room



View of the Supply room



View of the Classroom (main)



View of the Armory Drill Hall



View of the Annory Drill Hall



View of on of three flammable cabinets located on the the Doll Hall



View of the Armory Drill Hall



View of the Flammable cabinet storing containers of Spray Paint



View of the Air Conditioner and and Hesting system toosted adjacent to the Kitchen



View of heavily peeling painted plastic ceiling of the drill hall.



Vew of the gen localed at the entrance of the deactivated indoor Fringsange (DIFR)



View of the breakroom/kitchen



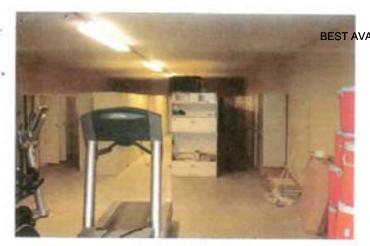
View of the hot water heater located in the HVAC room



View of heavily peeling painted plastic ceiling of the drill hall.



View of the IFOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 122 of 216



View of the DIFR from the gym.



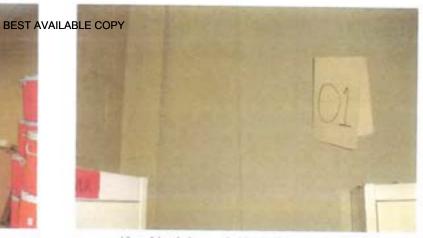
View of Lead wipe sample 2. located on left rear backstop center locker 150



View of lead wipe sample 4. located on the floor right side center 1 th from locker 128/105



View of Leed wipe sample is, located on the floor right side of treadmill



View of Lead wipe sample 1, located left rear wall backstop



View of Lead wipe sample 3, located at right wall backstop area 5 ft up between locker 42/43



View of Lead wipe sample 5, located on the right wallend of wall boker 119.5 feet up



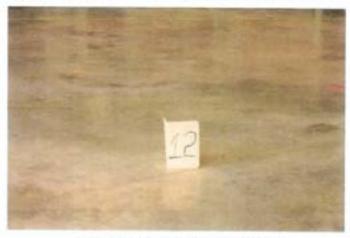
FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 123 of 216



Vew of Lead wipe sample 8 located on top of wall looker 25



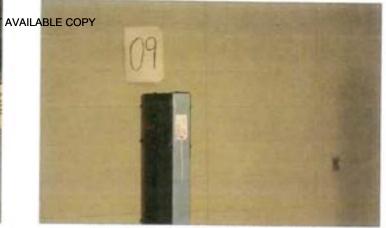
Lead wipe sample 10. located on the ceiling in the DIFR were the whaust system may have been



View of Lead wipe sample 12, located at the center of the Drill Hall floor



View of Lead wipe sample 14. located on top of file cabinet on the Drill Hall



View of Lead wipe sample 9, located on the former Observation wall above chest 6 feet up wall



View of Lead wipe sample 11, located on the floor 1 loof outside the DIFR.



View of Lead wipe sample 13, located on the floor 1 ft outside the Supply room



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 124 of 216



Vew of Lead wipe sample 15. located in the classroom on top of bookcase near halway





View of Lead wipe sample 18, located in room 112 on file cabinet in the Readiness NCO office

No. of Contract

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

ARNG-CSG-P

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7 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: SSG 16201 144th Street, Lexington, Oklahoma 73051.

SUBJECT: Industrial Hygiene Baseline Survey of the Lexington Oklahoma Armory.

1. References.

a. Report submitted 7 May 2013, Industrial Hygiene survey, LAE Consulting.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. The second of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the Lexington Armory.

b. The survey was conducted by Ms. of LAE Consulting.

 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1) 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.

b. Make corrections to all findings and recommendations made in the report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

5. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR



Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Oklahoma Army National Guard CSMS/SMMO, ATTN: LTC 3745 Thunderbird Street, Norman, OK 73069

5 May 2013

MEMORANDUM FOR: Lexington Oklahoma Armory, ATTN: SSG time Responsed Street, Lexington, Oklahoma 73051

SUBJECT: Industrial Hygiene Survey of Lexington National Guard Armory, Lexington, Oklahoma

- 1. References,
 - 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. IES Lighting Handbook, Application Volume 2005, Illumination Engineering Society of North America.
 - g. Threshold Limit Values (TLV's) For Chemical Substances and Physical Agents, and Biological Exposure Indices (BEI's), 2007, ACGIH, Cincinnati, Ohio.
 - Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1998, Hearing Conservation.
 - Industrial Ventilation, 25th Edition, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
 - NG Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.
 - k. Title 40, Code of Federal Regulations (CFR) Part 745, Lead, Identification of Dangerous Levels of Lead: Final rule.
 - TG-18, Installation Pest Management Program Guide, Armed Forces Pest Management Board

2. <u>Background</u>. At the request of the National Guard Bureau Region South Industrial Hygiene Office, Ms. The of LAE Consulting conducted an industrial hygiene survey at the Lexington National Guard Armory, Lexington, Oklahoma on 11 April 2013. The purpose of the survey was 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. The facility is one story structure which houses three aviation units. A readiness NCO, Administrative NCOs, and a Supply technicians work full time in the Armory 10 hrs for 4 days a week. The facility has 3 supply rooms with vaults, office, drill hall and break room. The facility is slated is to be remodeled in 2014. The new facility will be a two story Reserve Center. Building plans are located within the enclosure of this report. Supply rooms were not surveyed because supply technicians were not available.

4. Findings.

a. Mice have infested the Armory. Droppings were observed in office drawers and cabinets. A dead mouse was observed in the kitchen. Significant gaps under the exit could be allowing entrance for mice and other pest. The facility is does not have an integrated pest management (IPM) program. Contract pest control is now performed on an as needed basis. IPM programs monitor and identify pests; establish prevention methods; establish control measures when and if prevention does not eliminate the pest. Scorpions are also a concern with the Armory. Employees stated that lots of scorpions are in the hallways we they arrive to work in the morning.

wh-M

b. A black substance, possibly a product of burning was noticed on Styrofoam ceiling tiles in an office. The Styrofoam ceiling tiles are in many of the offices and the hallway. Styrofoam is a good insulation product but, is not fire retardant.

c. Illumination was surveyed throughout the building. The areas listed below are below the standards required in reference f. The findings are as followed in Foot-candles (FC):

AREA/LOCATION	MEASURED FC	REQUIRED FC
245th Cdr's office	42.5	50
ATC Cdr office	20.6	50
Administrative office	22.2-45.0	50
Dining Facility	0-15.9	50
Weight room/locker room	28-64	50

Table 1

1-AP. Consulting 1218 Seattened Pines Court, Severn, Maryland 21144 Telephone. (400) 551-2717

Page 2

BEST AVAILABLE COPY

FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 129 of 216

d. Employee concerned about water intrusion under window ledge in her office. Water seeps in during heavy rains. Inspection on the outside of the building showed mold growth on the concrete window ledge.

e. A deactivated indoor firing range is currently being used as a locker room and gym. All associated range equipment has been removed. The ventilation system and ducting has been removed. The date of the range cleaning is unknown. Eighteen Lead wipe samples and one blank were taken in various locations throughout the range and the Armory. Sample locations and results are in the table 2 below. A copy of the laboratory report can be found in the enclosure of this report.

ample #	Location	Results
1	Left side, Former backstop wall, 4 feet up	BRL
2	Right side backstop (former) top of stereo	BRL
3	Right side wall (squat press) 6 feet up wall	BRL
4	Left wall 6 feet up, (lcg press)	BRL
5	Floor between hammer strength & 50 lb dumbbell	BRL.
6	Wall, right side 6 feet up above wall locker 239	BRL
7	Floor between wall locker 13 & 87	29 ug/ft ²
8	Top of wall locker 17	35 ug/ft ²
9	Floor front of wall locker 46 & 47	BRL
10	Left wall 6 feet up	BRL
11	Left wall 4 feet up neat wall locker 216	BRL
12	Floor center wall locker 211 & 228	27ug/ft ²
13	Top of wall locker 199	43 ug/ft ²
14	Right wall 7 feet up at wall locker 187	BRL
15	Floor between wall locker 124 & 161	21 ug/ft ²
16	Top of wall locker 107	79 ug/ft ²
17	Top of wall locker 235	BRL
18	Drill Hall floor 3 feet outside D. Indoor Firing Range	BRL
19	Floor, Drill Hall, Right side near outlet	BRL
20	Floor, Center of the Drill Hall	BRL
21	Top of Soda Machine	86 ug/ft'
22	Floor, 3 feet in front of supply room	BRL
23	Floor in SSG office; front of desk	BRL
24	Top of serving line in the kitchen	BRL
Blank	Blank	BRL

Table 2

*BRL indicates below reporting limits

LM: Coronibing 1218 Scattered Pince Court, Severn, Maryland 21144 Telephone: (410) 551-2217

Page 3

5. <u>Technical Assistance</u>. For technical assistance, regarding information found in this report, please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office at Non-Responsive



4 Encl

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- 1. Building Diagram
- 2. HHIM
- 3. Facility Photos
- 4. Laboratory Results

LAE Counding 1218 Stationed Prins: Count, Scient, Maryland 21144 Telephone: (400) 551-2717

Page 4

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6. Recommendations.

a. Establish and implement an Integrated Pest Management (IPM) Program for the control of redents, scorpions, crickets, and other pest. Hire/contract a certified pest control company. Ensure the company performs IPM. Require that the pest control company makes twice weekly visits antil redent population is eliminated and/or controlled. Contact the state environmental office and the Oklahoma facility engineers and the state Safety office for assistance with the IPM program (RAC 3).

b. Inform the fire department that the ceiling riles in the facility are made of Styrofoam: Consult and discuss with the fire department fire measures that must be implemented when large quantities of Styrofoam are present in a building. Recommend the state Facility Engineers remove all Styrofoam ceiling tiles and replace with a fire and/or flame relationt tile. (RAC 3)

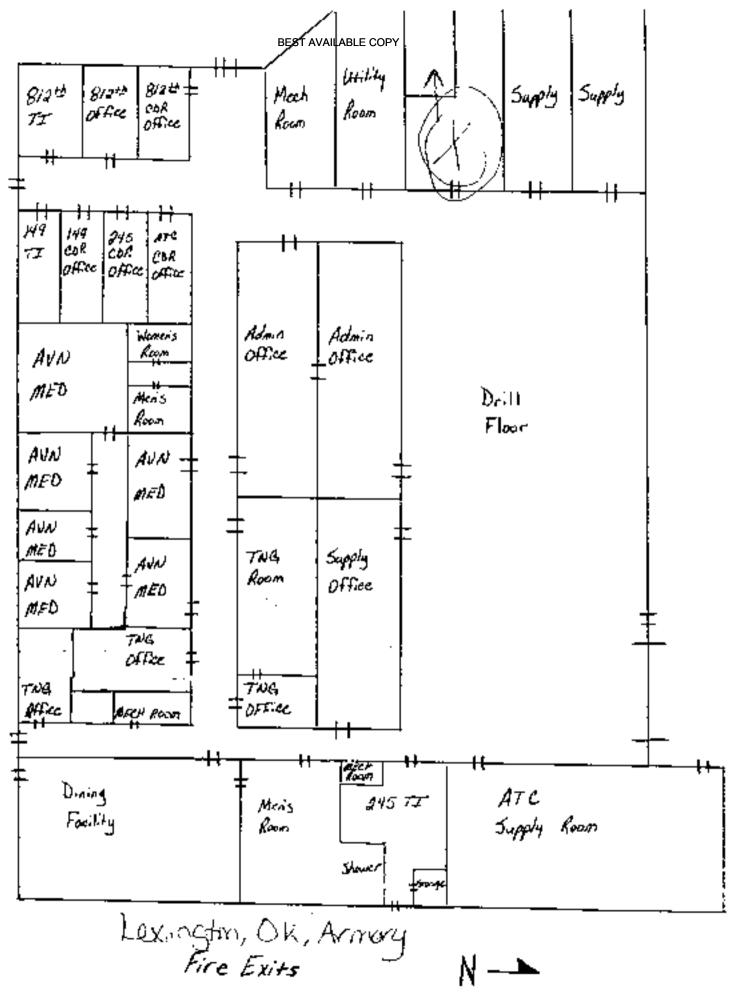
Consider purchasing supplemental lighteng such as desk lamps and a floor lamp. (RAC 3)

d Recommend the state Facility Engineer office inspect and repair the window in the office. Continue to clean up water to reduce mold growth. (RAC 3)

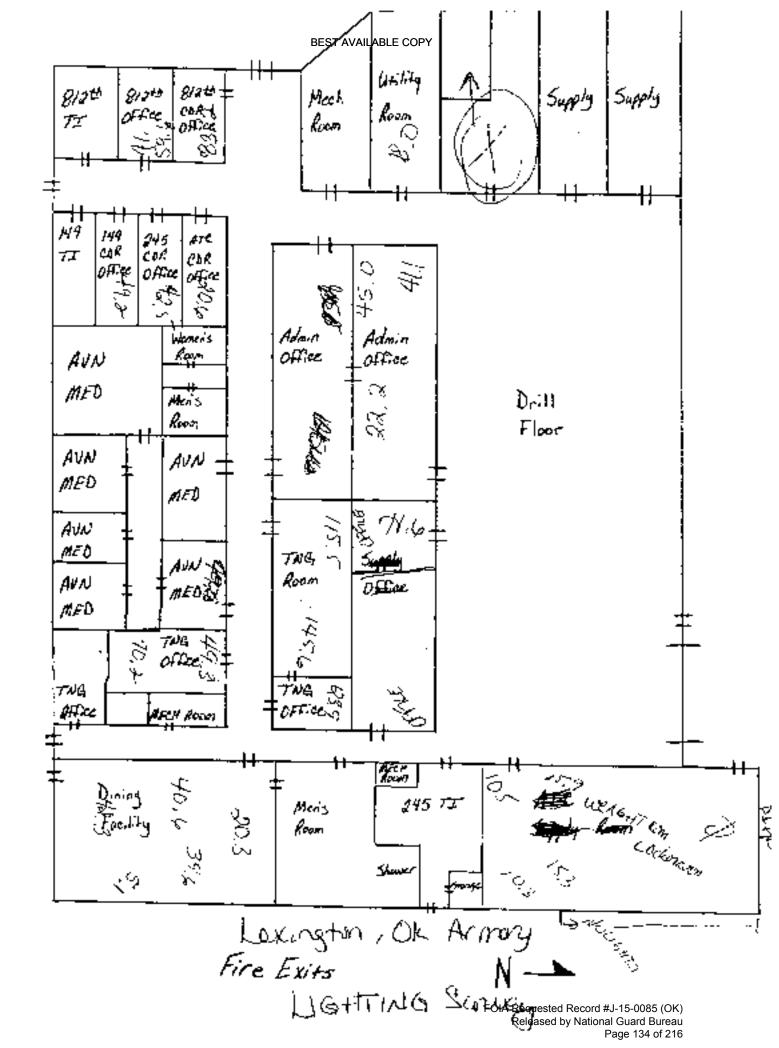
 Recommend the state Safety and Occupational Health office review the Lead wipes sample results of this facility to detent inc if further sampling and/or decontamination is needed. (RAC 3)

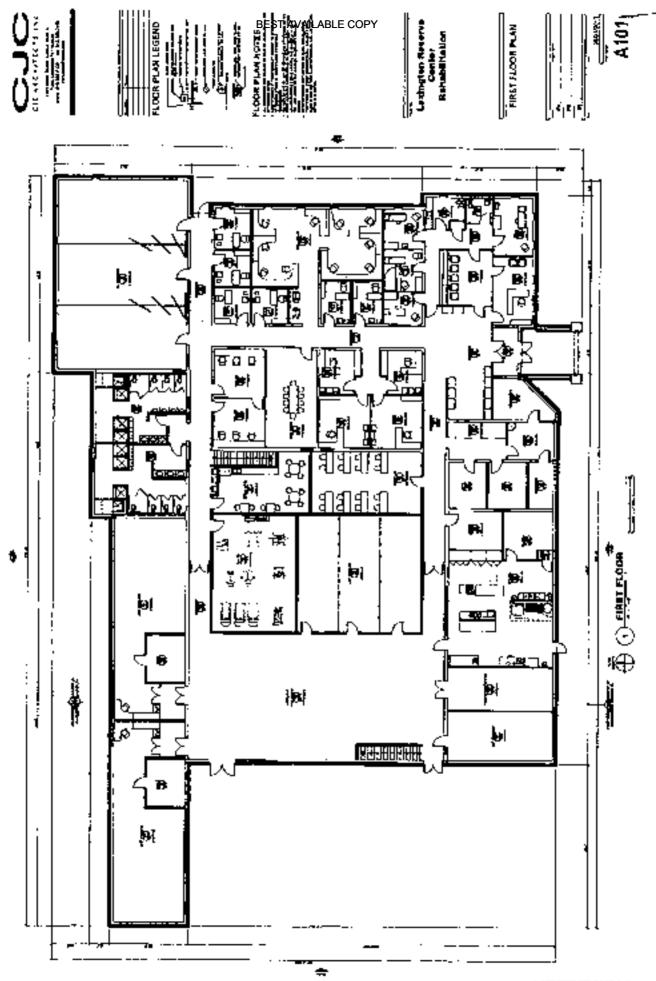
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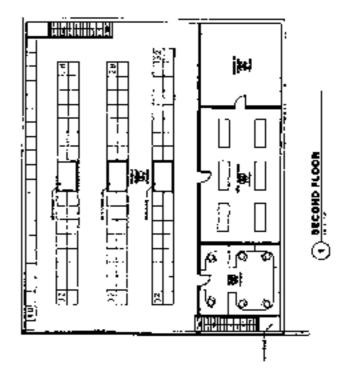




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View of Lexington Oklahoma Armory



View of Lexington Oklahoma Armory



View of Lexington Oklahoma Armory



View of dead mouse in the kitchen



View of Classroom/breakroom



View of nouse dropping in a file cabinet drawer



View of kitchen converted into leaders office



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 144 of 216



View of Air handlers located in hall closet



View of food trash in garbage can under desk with mice activity



View mouse droppings within the desk



View of vegetation growing under door into the Armory



View of office with mice activity in the desk



View of gnawed paper in mice droppings in the desk drawer



View of black sustance (possible product from burning) located on the styrofoam ceiling tile in an office



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View of mold growth around concrete under window



View of the Armory Drill Hall



View of the Armory Drill Hall



View of the Armory Drill Hall (larger door is entrance to deactivated Indoor Firing Range)



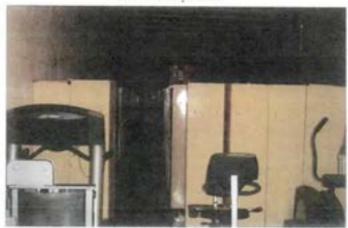
View of the Armory Drill Hall



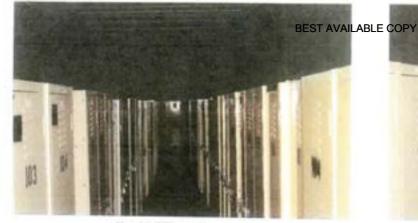
View of the Armony Drill Hall



View of the Armory Drill Hall



View of the CFOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 146 of 216



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View of the DIFR, uprange



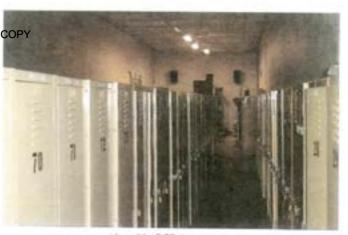
View of gym in the DIFR



View of the gym in the DIFR



View of Lead wipe sample 1, located in the DIFR on left side of backstop wall 4 fet up



View of the DIFR down range



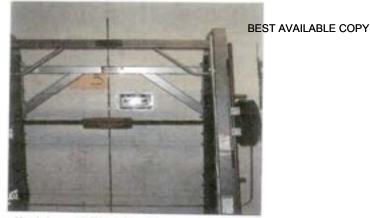
View of the gym in his DIFR



View of unlabeled spray bottle located in the gym.



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View of Lead wipe sample 3, located on right side wall at equal press 6 feet up



View of Lead wipe sample 5, located on the floor between hammaer, strenth and 50lb dumbell



View of Lead wipe sample 7, located on the floor between locker 13 & 87



View of Lead wipe sample 9. located on the floor in troot of lockers 40.8.47



View of Lead wipe sample 4 located left wall 6 feet at leg press



View of Lead wipe sample 6, located on the right side wall near locaker 239 6 feet up wall



Vew of Lead wipe sample 8, located on top of wall locker 17



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View of Lead wipe sample 11 and 12 located. Floor center locker at wall locker 228and on the wall 4 feet upp telt side in tront of locker 218



View of Lead wipe sample 14, located on the right wall 7 feet up at locker 187



View of Lead wipe sample 16, located on top of wall locker 107



View of Lead wipe sample 18, located on the floor 3 feet outside the Dnill Hall entrance



View of Lead wipe sample 13, located on top of wall locker 199



View of Lead wipe sample 15, located on the floor between wall locker 124 and 161



view of Lead wipe sample: 17, located on top of wall locker 235



FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 149 of 216



View of Lead wipe sample 20, located at the center of the Dail Hall floor



View of Lead wipe sample 22, located 3 feet outside the supply room door



View of Lead uipe sample 24, located on top of sening ledge in the latchen



View of Lead wipe sample 21, located on top of the soda vending machine in the Drill Hall



View ofLead wipe sample 23, located on the floor in the SSG Bonner's office

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

NGB-ARS-SEIH

4 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: SFC Facility Supervisor, Midwest City National Guard Armory, 2550 North Air Depot Blvd, Oklahoma City, Oklahoma 73141.

SUBJECT: Industrial Hygiene Baseline Survey of the Midwest City National Guard Armory.

1. References.

Report submitted 22 May 2013, Industrial Hygiene survey,

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. the second of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the Midwest City Armory.

b. The survey was conducted by Mr.

 Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

BEST AVAILABLE COPY

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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.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

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

5. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR COMMERCIAL Non-Responsive



Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

Oklahoma Army National Guard Safety and Occupational Health Office, ATTN: MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

MIDWEST CITY ARMORY 2550 N AIR DEPOT BLVD OKLAHOMA CITY, OK 73141



Page 1

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23 APRIL 2013

MEMORANDUM FOR: SFC POC: Midwest City Armory; located at 2550 North Air Depot Blvd Oklahoma City, OK 73141

SUBJECT: Industrial Hygiene Survey of the National Guard Armory; located at 2550 North Air Depot Blvd Oklahoma City, OK 73141

1. References.

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

- b. AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 29 February 2000, Army Safety Program.
- MG Pam 420-15, 3 Facilities Engineering November 2006
- e. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.
- f. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- g. The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

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

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

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

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

Page 2

SUBJECT: Industrial Hygiene Survey of the Midwest City National Guard Armory; located at 2550 North Air Depot Blvd Oklahoma City, OK 73141

2. Purpose. The purpose of this visit was to conduct a baseline Industrial Hygiene survey of the Midwest City National Guard Armory. The baseline survey included indoor air quality, noise, illumination, lead and asbestos surveys and sampling when necessary. The facility was visually examined and the various shop personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Mr. NOn-Responsive of the National Guard Bureau Region South Industrial Hygiene Office in College Park, GA, Non-Responsive was contracted to conduct the baseline industrial hygiene survey at the National Guard Armory in Midwest City, OK. SFC was the POC at the armory.

4. Facility Description. The armory is a one story building which has the following; administrative offices, classrooms, supply areas, a kitchen, weapon vault(s), a drill hall, latrines, conference rooms and an indoor firing range (which has been converted). The tenants were in the process of moving in and restructuring office and storage areas at the time of the survey.

Instrumentation. All instrumentation was operated according to manufacturer's recommendations. All
instruments have been calibrated properly and within the last 8 months.

6. Findings.

a. Numerous ceiling tiles appeared damaged and stained. Frames bent or broken



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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 155 of 216



Ceiling tiles damaged and stained

b. 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 were no obvious roof leaks at the time of the survey. Throughout the building the average temperature was 70.2 (DF) and the average humidity was 36.2. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 70% 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 520 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment, although it appeared to be in need of servicing as mentioned earlier. At the time of the survey there was no record of a maintenance record program of the HVAC system.

Office/Areas	IAQ CO2 ppm /Temp/HM/CO	Office/Areas	IAQ CO2 ppm /Temp/HM/CO
Vault C 700	358/66/33/0	Male Latrine	499/73/33/.1
Vault C 700 (2)	368/73/36/0	C Co Orderly room	568/71/34/.0
Vault Med Det	315/73/36/.0	CMDR	543/70/34/0
IFR/Supply	561/65/35/0	Admin	562/72/37/.0
Supply C 700	514/73/35/0	Readiness	497/71/31/.1
Drill Hall	630/72/35/0	1SG Office	529/72/37/.0
C700 Storage	587/63/37/.2	Classroom	567/72/36/.0
Conference room	548/71/36/.0	Female Latrine	472/70/33/.1
Break room	603/68/34/.1	Med Det readiness	455/73/41/.1
Offices (6) avg	628/73/41/.1	OP NCOIC Office	528/70/35/0
Med Det Cmdr.	549/73/35/0	S3 Training office	539/72/33/0
Med Det Supply area	501/70/34/0	Classroom	564/70/33/.1

Page 4

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 Illumination was surveyed throughout the building. A small number of lights were burned out or not working. All readings are in foot-candles. Levels were as follows;

Office/Areas/Equipment	Illumination Font Candles (ftc)	Meets: IES
	# Lights/Ftc/Windows/# of lights out	Lighting
		Handbook
Vault C 700	1/ 22/ 0/ 0	Yes
Vaalt C 700 (2)	U 28/ 0/ 0	Yes
Vault Med Det	LI 28 AV 0	Yes
(FR/Supply	B/40/1/0 — —	Yes
Supply C 700	7/13/ 0/ 2	No
Drill Hall	63/ 20/ 0/10	Yes
C700 Storage	6/20/0/0	Yes
Conference room	7/70 /0 /0	Yex
Break room	4/ 38/ 0/ 0	Yes 1
Offices (6) avg	2/ 38/ 0/ 0	Ye<
Med Det Cindr.	17 407 07 0	Yes
Med Det Supply area	2/4// 0/ 0	Yes
Male Laurine	107.66/07.0	Yes
C Co Orderly room	6/34/ 0/ 0	Yes
CMDR	6/52/5/0	Yes
Admin	1/ 30/ 5/ 0	Yes
Readmess	47 402 57 1	Yes
ISG Office	6/70//5/0	Yes
Classroom	12/27/10/1	Yes
Female Latrine	4/ 28/ 0 /0	Yes
Med Det readiness	4/25 /0 /0	Yes
OP NCOIC Office	3/28 /5 AL	Yes
S3 Traiming office	3/30 / 5 /0	Yes
Classroom	6/ 32/ 0/ 0	Yes

d Sound level measurements were performed in all work areas of the facility. There is no significant reading, which would put personnel in harm's way. The Average reading for the facility is 52 dBa.

Office/Areas/Equipment	Noise dBa	Exceeds Noise 85
		dBa Sið
Vault C 700	52	No
Vault C 700 (2)	48	1 No
Vault Med Dct	50	No
fPR/Supply	48	No .
Sapply C 700	50	No

Drill Hall	50	No
C700 Storage	50	[No]
Conference room	58	No
Break room	50	No
Offices (6) avg	55	Nu
Med Det Cinde.	50	No
Med Det Supply area	50	No
Male Latrine	50	No
C Co Orderly room	50	No
CMDR	55	No
Adimais	50	No
Readiness	50	No
ISG Office	50	No
Classroom	50	No
Female Latrine	-48	No
Med Det readiness	50	No
OP NCOIC Office	55	No
S3 Training office	50	No
Classroom	50	Na
		-

e. Weapons Vault: The weapons vault was tested for lead levels, lead swipe samples were taken and sent to AES Inc. Results of the samples are listed below.

Sumple Site	Result/Units ug.	Reporting Limits
IFR Entrance Floor	30	20
IFR Left Wall	BRL	20
IFR Bay Door	BRL	20
IFR Front Floor (chip)	BRL	20
IFR Rt Wall	BKL	20
IFR Front Floor	79	20
BLANK	BRL	20
Vault Wall C 700	BRI.	20
Vault Floor C 700	- 171 -	20
Vault Door In C 700	BRI.	20
Vault Duor Out C 700	BRI.	20
Floar Outside yault	BRI.	20
Vault far Wall C 7002	BRL	20
Flat Surfaces in Vault C 7002	BKI.	20
Vault Floor C7002	RR1.	20
Vault Door In C 7002	BRL	20
Floor outside Vault C 7002	BRL	20

Drill Hall Floor Ctr	BRL	20
Drill Hall Floor Bay Door	BRL	20
Vault Floor Med Det	29	20
Vault Door In Med Det	BRL	20
Front Wall Vault Med Det	BRL	20
Floor Outside Vault Med Det	32	20
Flat Surfaces in Vault Med Det	BRL	20

BRL: Not detected at the reporting limit

- Asbestos: Insulation around pipes appeared in good condition at the time of the survey. A sample
 was taken from the broken kitchen floor.
- g. The flammable cabinet was orderly but MSDS binder was not readily accessible at the time of the survey.



h. The converted IFR floor was starting to chip and samples were taken. POC states they were told to not put any supplies or storage items in this area of the IFR.

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

9. Attachments

- 1. Recommendations
- 2. Photos
- 3. Lab Results

Page 7

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 159 of 216 Based on interviews with the POC and other personnel as well as observations by Surveying Inc. staff and IAQ measurements, it appears the Midwest City Armory is need of the following recommendations:

.

- Numerous areas tested for lead levels came up above the reporting limit for the lab but not over the ARNG standard of 200ug. All areas that showed levels above the 20ug. Can be cleaned and by using normal floor detergent and water. No health risk is present at this time. RAC 4
- Determine where leaks are coming from, either from the roof, AC duct work or overhead piping. Then replace broken and stained ceiling tiles. Clean all vents annually or as needed. RAC 3
- Replace broken cinder blocks around windows, as well as broken windows. Falling piece of block or glass could be a potential hazard in the office areas.
 RAC 4
- For levels not meeting the illumination standard. Lights that are out or broken should be fixed. In other areas supplemental lighting could be used. RAC3
- Housekeeping needs to be addressed. The units were in the process of obtaining new lockers and storage cabinets. RAC 4
- The kitchen needs to be addressed from the leaking roof, broken floor and wall tiles and mildew building up on the walls.
 RAC3

Page 8

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 160 of 216



Weapons Vault C 700



Weapons vault C 700



Weapons Vault Med Det



IFR/Converted to supply area



Paint chipping in converted IFR

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Paint chipping in converted IFR



Broken or missing ceiling tiles outside vault



Water damaged floor in kitchen



Water leaking from ceiling onto floor



Water leaking from ceiling onto floor



POC states kitchen to be gutted



Broken cinder block above office window



Broken window



Chipping paint from drill hall



Drill Hall



Office area



Cardboard partition by x-ray

FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 163 of 216



Broken latrine



Shower/Housekeeping needed



Water/rust stains on floors



Classroom



Unfinished hallway



Custodial closet



Med Det Readiness area



GOV parking area

FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 165 of 216 BEST AVAILABLE COPY

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



.

May 06, 2013

National Guard Bureau Region-South IH 510 Plaza Drive. Suite 1530 College Park GA 30349



Dear Non-Responsive

Order No: 1304087

Analytical Environmental Services, Inc. received 25 samples on 4/26/2013 2:50:00 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 07/01/12-06/30/13. -AIHA-LAP, LLC Laboratory 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.



Project Manager

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FOIA Requested Record #J-15-0085 (OK) Released by National Guand Sugers Page 167 of 216

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FOIA Requested Record #J-15-0085 (OK) Released by National Guass Barana Page 168 of 216

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Client: National Goard Bareau Report-South IH Projects Midwest City Aurory Lab 1D: 1004087

Case Narrative

Sample Receiving Nonconformance

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Analytical Environmental Services, Inc.

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Lab Order:	1364087
Client:	National Guard Horeau Region-South IH
Project:	Midwest Oly Amory
Matrix:	Wipe
Date Received:	4-26-2013 2, MEGU PM

Date: 6-Slay 13

LEAD ON WIPES (N9100/7082)

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 170 of 216

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Analytical Environmental Services, Inc.

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Sample/Cooler Receipt Checklist

client National Guard Bureau Southe	ist	Work Or	der Number _	1304087
Checklist completed by Signature Da	127/13 te			
Carrier name: FedEx UPS Courier Client U	IS Mail 6th	er		
Shipping container/cooler in good condition?	Yes L	No	Not Preser	u
Custody seals intact on shipping container/cooler?	Yes	No	Not Preser	nt L
Custody seals intact on sample bottles?	Yes	No	Not Preser	nt
Container/Temp Blank temperature in compliance? (4°C2)				
Cooler #1 Anti-of Cooler #2 Cooler #3	Cooler #4		Cooler#5	Cooler #6
Chain of custody present?	Yes	No		-
Chain of custody signed when relinquished and roceived?	Yes 1	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 App	licable
Water - VOA vials have zero headspace? No VOA vials	submitted	Yes	No	
Water - pH acceptable upon receipt?	Yes	No _	Not App	licable
Adjusted?	Ci	necked by		
Sample Condition: Good Other(Explain)				
(For diffusive samples or AIHA lead) Is a known blank incl	uded? Ye	es	No	

See Case Narrative for resolution of the Non-Conformance.

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

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

3785 Presidential Parkway, Adapta QA 30340-3704	1AL SERVICES, INC	CHAIN OF CUSIODY		Work Outer 1504 P.S.G
1.	972-4889 / FAX: (770) 457-8188		Dute: Y	4/27/13 Page
ColdPANT. National Guard Bureau Southeast Regional Industrial	ADDRESS		ANALYSIS REQUESTED	Visit our mebsite
Hygiene Office	College Park GA 30349	99 		www.acsatlanta.com to
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ANALYTICAL ENVIRONMENTAL SERVICES, INC. Bulk Sample Summary Report

Lab Code 102082-0

2-May-13

Client Name: Project Name:	······································		AES Job Number: 1304P36 Project Number:						
Client ID	AES ID	Location	СН	AM		ral Pe AN			Comments
020MC0423	1304P36- 001A	Kitchen Floor	3	ND	ND	ND	ND	ND	Floer Tile
Layer: 1 020MC0423 Layer: 2	1304P36- 001A	Kitchen Floor	5	ND	ND	ND	ND	ND	Black Mastic

Note: CH-chrysotile, AM-amosite, CR-crocidokie, AC+actinolite, TR+tremelite, AN-uschophylite

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

ND - None Detected

AES.Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program. (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestes in Bulk Insulation Samples" (EPA 600:M4-82-620), 1982 at found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestes in Bulk Building Materials" (EPA/600/R-93/116), 1993.

These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume. PLM is not consistently reliable in detecting small concentrations of subestor in floor siles and similar nonfrizble materials, quantitative TEM is currently the only method that can be used to determine conclusive arbeitos content.

This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.

Microanalyst:



QC Analyst:

Von-Responsive

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FOIA Requested Record #J-15806863(9K) Released by National Guard Bureau Page 173 of 216

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

ARNG-CSG-P

13 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: SGM 7250 West 41st Street, Sandy Springs, Oklahoma 74063.

SUBJECT: Industrial Hygiene Baseline Survey of the AFRC Sandy Springs Armory.

1. References.

 a. Report submitted 10 May 2013, Industrial Hygiene survey, Surveying.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. the state of the Occupational Safety and Health Office, an Industrial Hygiene Survey was conducted at the AFRC Sandy Springs Armory.

b. The survey was conducted by Mr. of the surveying.

3. Findings. . All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)



n-Responsive

4. Recommendations.

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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.

b. Make corrections to all findings and recommendations made in the report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

5. If additional information is needed about the contractors report, please contact M. Non-Responsive Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR



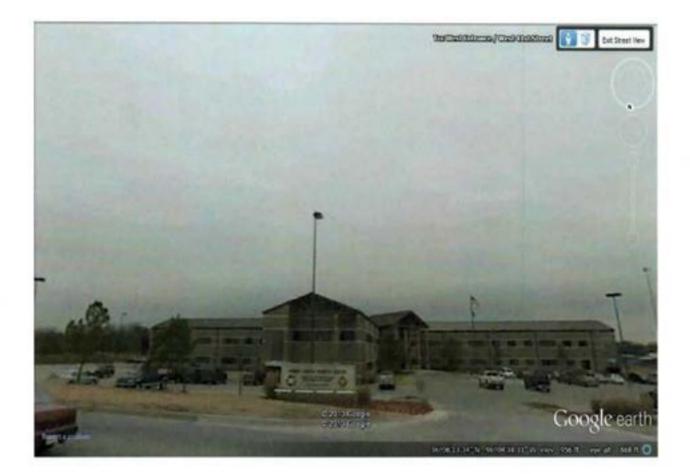
Regional Industrial Hygienist

1 Encl.

CF: Oklahoma Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

SAND SPRINGS AFRC



25 APRIL 2013

MEMORANDUM FOR: SGM

SUBJECT: Industrial Hygiene Survey of the Sand Springs AFRC; located at 7250 West 41st Street South Sand Springs, OK 74063

1. References.

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

- b. AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 29 February 2000, Army Safety Program.
- d. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.
- e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- f. The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

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

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

- i. AR 11-34 Army Respiratory Protection Program, 15 February 1990
- j. DA Pam 40-501, Hearing Conservation Program, 10 December 1998

Page 1

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 177 of 216

SUBJECT: Industrial Hygiene Survey of Sand Springs AFRC; located at 7250 West 41st Street South Sand Springs, OK 74063

 Purpose. The purpose of this visit was to conduct a baseline Industrial Hygiene survey of the Sand Springs AFRC. The baseline survey included indoor air quality, noise, illumination, lead and asbestos surveys and sampling when necessary. The facility was visually examined and the various shop personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Mr Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office in College Park, GA, Non-Responsive was contracted to conduct the baseline industrial hygiene survey at the Sand Springs AFRC in Sand Springs, OK. SGM was the POC at the armory.

4. Facility Description. The armory is a two story building which has numerous; administrative offices, classrooms, supply areas, a kitchen, the drill hall, latrines, conference rooms and a gym. The hallways were broken down into sections and averaged out during IAQ/IIIumination and Noise surveys.

Instrumentation. All instrumentation was operated according to manufacturer's recommendations. All
instruments have been calibrated properly and within the last 8 months.

6. Findings.

a. At the time of the survey, numerous ceiling tiles appeared damaged and stained. The cause could be from a roof leak, condensation on AC/Heating duct work or an overhead pipe with a leak.





Page 2

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 178 of 216



b. 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 were no obvious roof leaks at the time of the survey. Throughout the building the average temperature was 75 (DF) and the average humidity was 34. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 70% 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 493 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment, although it appeared to be in need of servicing as mentioned earlier. At the time of the survey there was no record of a maintenance record program of the HVAC system.

Office/Areas	IAQ CO2 ppm /Temp/HM/CO	Office/Areas	IAQ CO2 ppm /Temp/HM/CO	
Drill Hall	461/66/33/0	Rm 1407- 1429 Avg	501/73/28/.1	
M latrine Avg	496/73/27/0	Rm 1106 - 1125 Avg	553/72/28/ .0	
F Latrine Avg	489/73/28/.1	Rm 2401 - 2428 Avg	396/74/30/0	
Vault A Co.	613/68/30/.0	Rm 2106 - 2118 Avg	487/74/31/.0	
A Co Supply	592/70/33/.1	Rm 2200 - 2214 Avg	499/75/31/.2	
Vault HHC	632/74/30/0	Rm 2301 - 2328 Avg	517/74/28/.1	
HHC Supply	573/63/28/0	Rm 1202 - 1218 Avg	486/75/31/.0	
Vault F700	626/72/28/.0	Kitchen	539/74/29/0	
F700 Supply	596/74/21/0	Break room	493/71/29/.0	
USAR Vault	527/71/24/.0	Gym	529/72/33/.1	
Common area	543/78/34/.1	Common area	512/76/31/.0	

Page 3

c. Illumination was surveyed throughout the building. A small number of lights were burned out or not working. All readings are in foot-candles. Levels were as follows:

Office/Areas/Equipment	Illumination Foot Candles (Ftc) # Lights/Ftc/Windows/# of lights out	Meets: IES Lighting Handbook	
Drill Hall	12/ 36/ 6/ 0	Yes	
M latrine Avg	11/24/0/0	Yes	
F Latrine Avg	11/ 24 /0/ 0	Yes	
Vault A Co.	2/ 28/ 0/ 0	Yes	
A Co Supply	6/ 28/ 0/ 0	Yes	
Vault HHC	4/ 26/ 0/ 0	Yes	
HHC Supply	10/ 32/ 0/ 0	Yes	
Vault F700	4/ 26/ 0/ 1	Yes	
F700 Supply	8/28/0/0	Yes	
USAR Vault	12/ 52/ 0/ 0	Yes	
Common area	27/ 35/ 0/ 0 wall of windows/high walls	Yes	
Rm 1407- 1429 Avg	2/ 38/ 5/ 0	Yes	
Rm 1106 - 1125 Avg	2/ 50/ 2/ 0	Yes	
Rm 2401 - 2428 Avg	5/ 52/ 3/ 0	Yes	
Rm 2106 - 2118 Avg	6/56/ 4/ 0	Yes	
Rm 2200 - 2214 Avg	3/ 48/ 2/ 0	Yes	
Rm 2301 – 2328 Avg	3/58/ 3/ 0	Yes	
Rm 1202 - 1218 Avg	2/50 / 2/ 0	Yes	
Kitchen	15/ 48/ 1/ 0	Yes	
Break room	8/ 46/ 0/ 6	Yes	
Gym	23/ 347 /0 wall of windows	Yes	
Common area	28/43/0/0 wall of windows/high walls	Yes	

d. Sound level measurements were performed in all work areas of the facility. There is no significant reading, which would put personnel in harm's way. The Average reading for the facility is 50 dBa.

Office/Areas/Equipment	Noise dBa	Exceeds Noise 85 dBa Std	
Drill Hall	50	No	
M latrine Avg	50	No	
F Latrine Avg	50	No	
Vault A Co.	50	No	
A Co Supply	52	No	
Vault HHC	50	No	
HHC Supply	55	No	
Vault F700	48	No	
F700 Supply	51	No	

USAR Vault	50	No
Common area	48	No
Rm 1407- 1429 Avg	48	No
Rm 1106 - 1125 Avg	55	No
Rm 2401 - 2428 Avg	50	No
Rm 2106 - 2118 Avg	52	No
Rm 2200 - 2214 Avg	50	No
Rm 2301 - 2328 Avg	50	No
Rm 1202 - 1218 Avg	50	No
Kitchen	50	No
Break room	46	No
Gym	50	No
Common area	50	No

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e. Weapons Vault: The weapons vault was tested for lead levels, lead swipe samples were taken and sent to AES Inc. Results of the samples are listed below.

Sample Site	Result/Units ug.	Reporting Limits
A Co. Vault Floor	50	20
A Co. Vault Wall Front	BRL	20
A Co. Vault Flat Surfaces	BRL	20
A Co. Vault Door In	BRL	20
BLANK	BRL	20
F700 Vault Floor	BRL	20
F700 Vault Wall Left	BRL	20
F700 Vault Door	BRL	20
F700 Vault Flat Surfaces	BRL	20
F700 Supply Floor	BRL	20
HHC Vault Floor	26	20
HHC Vault Wall Left	BRL	20
HHC Vault Door	BRL	20
HHC Supply Floor	BRL	20
HHC Vault Flat Surfaces	BRL	20
HHC Supply Counter	BRL	20
Drill Hall Floor Ctr	BRL	20
Drill Hall Floor by Kitchen	BRL	20
BLANK	BRL	20
Drill Hall Floor Entrance	BRL	20
USAR Vault Floor	30	20
USAR Vault Wall Left	BRL	20
USAR Vault Door	BRL	20
USAR Floor outside Vault	BRL.	20
USAR Vault Flat Surfaces	BRL	20
Floor outside USAR Vault	BRL	20

BRL: Not detected at the reporting limit

Findings: There were three spots that showed traces of lead. All three happened to be on the vault floors.

- Asbestos: Insulation around pipes showed no fraying or crumbling at the time of the survey. No samples were taken during the survey.
- g. The flammable cabinets were maintained. The MSDS binders were easily accessible if needed.



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

- 8. Attachments
 - 1. Recommendations
 - 2. Photos
 - 3. Lab Results

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Based on interviews with the POC and other personnel as well as observations by HI Surveying Inc. staff and IAQ measurements, it appears the Sand Springs AFRC is clean, orderly and in overall good condition. Below are some recommendations based on the findings during the survey.

- Three areas that were tested for lead levels, showed traces of lead. The three areas were A Co. (50ug), HHC (26ug), and USAR (30ug) vault floors. The reporting limit of 200ug. RAC 4
- Supplemental lighting can be used in the supply areas and common work area where high shelving and cubicle walls lower illumination standards.
 RAC 3
- Determine where leaks are coming from, either from the roof, AC duct work or overhead piping.
 Fix the source of the water damage and then replace broken and stained ceiling tiles. Clean all vents annually or as needed.

Page 8



ARNG Weapons Vault



ARNG Weapons Vault



ARNG Weapons Vault



USAR Weapons Vault



USAR Common Work area



USAR Office



Common work area second floor



Office Second Floor



Beam hit training area



ANG second floor storage area



Water damage second floor storage



ARNG office Space



Latrine



Latrine



ARNG Office space



Classroom



Classroom



Hallway off drill hall

FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 186 of 216



Supply room HHC



Supply room F700



Supply room A Co



Drill Hall



Main foyer of Sand Springs AFRC



Old extinguishers stored on the floor



Damaged/Stained Ceiling tiles





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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 188 of 216



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 06, 2013

Ion Responsive

National Guard Bureau Region-South IH 510 Plaza Drive. Suite 1530 College Park GA 30349



RE: Sand Springs AFRC

Dear Non-Responsive

Order No: 1304046

Analytical Environmental Services, Inc. received 2 for the analyses presented in following report.

26 samples on 4/29/2013 2:50:00 PM

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-LAP, LLC Laboratory 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.



Project Manager

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FOIA Requested Record #J-15-0085 (OK) Released by National Guapt Burgars Page 191 of 216

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Analytical Environmental Services, Inc.

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Thecklist completed by Date	4/30		er Number
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hipping container/cooler in good condition?	Yes _	No _	Not Present
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Custody seals intact on sample bottles? p7 4/30/13	Yes _	No _	Not Present
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hain of custody signed when relinquished and received?	Yes _	No	
hain of custody agrees with sample labels?	Yes _	No _	
amples 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
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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 (OK) Released by National Guard Buscaus Page 193 of 216

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

ARNG-CSG-P

13 May 2013

MEMORANDUM FOR THE Oklahoma Army National Guard, ATTN: SFC 4220 North Mingo Expressway, Tulsa, Oklahoma 74116.

SUBJECT: Industrial Hygiene Baseline Survey of the Tulsa Armory.

1. References.

 a. Report submitted 10 May 2013, Industrial Hygiene survey, Surveying.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

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

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

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

f. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

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

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

 Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of Mrs. and Health Office, an Industrial Hygiene Survey was conducted at the Tulsa Armory.

b. The survey was conducted by Mr. Nor Responsive II Surveying.

Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1) 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.

b. Make corrections to all findings and recommendations made in the report.

c. Use the report to help in correcting all deficiencies noted by the contractor. Put a plan in place to correct the deficiencies and let the Occupational Safety and Health Office know in 30 days how you are going to correct all recommendations.

5. If additional information is needed about the contractors report, please contact M. Non-Kesponster Regional Industrial Hygienist, ARNG-IHS, Non-Responsive OR



Regional Industrial Hygienist

I Encl.

CF: Oklaborna Army National Guard Occupational Health Office, ATTN: Mrs. Occupational Health Nurse, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.

MAJ Safety and Occupational Health Manager, 5290 Air Guard Drive, Bldg 1011, Oklahoma City, OK 73179.



TULSA ARMORY, TULSA OKLAHOMA 30APRIL2013





19 APRIL 2013

MEMORANDUM FOR: SFC POC: Tulsa Armory; located at 4220 North Mingo Expressway Tulsa, OK 74116

SUBJECT: Industrial Hygiene Survey of the Tulsa National Guard Armory; located at 4220 North Mingo Expressway Tulsa, OK 74116

1. References.

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

- AR 40-5, Preventive Medicine, 25 May 2007.
- c. AR 385-10, 29 February 2000, Army Safety Program.
- TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.
- e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.
- f. The IES Lighting Handbook, Tenth Edition; Illuminating Engineering Society / 2011

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

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

- i. AR 11-34 Army Respiratory Protection Program, 15 February 1990
- j. DA Pam 40-501, Hearing Conservation Program, 10 December 1998

Page 1

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 197 of 216



SUBJECT: Industrial Hygiene Survey of the Tulsa National Guard Armory; located at 4220 North Wingo Valley Expressway Tulsa, Oklahoma 74116

 Purpose. The purpose of this visit was to conduct a baseline Industrial Hygiene survey of the Tulsa National Guard Armory. The baseline survey included indoor air quality, noise, illumination, lead and asbestos surveys and sampling when necessary. The facility was visually examined and the various shop personnel were interviewed for historical information related to the building and the operations performed.

3. Background. At the request of Mr. Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office in College Park, GA, Non-Responsive was contracted to conduct the baseline industrial hygiene survey at the National Guard Armory in Tulsa, OK. SFC was as the POC at the armory.

4. Facility Description. The armory is a two story building which has the following; administrative offices, classrooms, supply areas, a kitchen, the drill hall, latrines, conference rooms, indoor firing range (which has been converted). Very few offices on the second floor are being used.

Instrumentation. All instrumentation was operated according to manufacturer's recommendations. All
instruments have been calibrated properly and within the last 8 months.

6. Findings.

 Numerous ceiling tiles appeared damaged and stained. A number of the intake and exhaust covers were covered with soot.

Ducts covered from soot



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Ceiling tiles damaged and stained



b. 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 were no obvious roof leaks at the time of the survey. Throughout the building the average temperature was 74 (DF) and the average humidity was 39.6. Many factors such as personal activity may affect personal comfort. Acceptable relative humidity levels can range from 30 to 70% 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 532 parts per million. The ventilation system is in good working condition and maintains a comfortable working environment, although it appeared to be in need of servicing as mentioned earlier. At the time of the survey there was no record of a maintenance record program of the HVAC system.

Office/Areas	IAQ CO2 ppm /Temp/HM/CO	Office/Areas	IAQ CO2 ppm /Temp/HM/CO
Drill Hall	532/66/59/0	Rm 105	507/73/43/.3
M latrine Avg	612/73/57/0	Rm 106	539/74/45.5
F Latrine Avg	530/73/55/.1	Rm 108	521/73/42/0
IFR/SUPPLY	521/64/53/.2	Rm 114	535/72/47/.3
Rm 121	537/73/53/.2	Rm 109	597/73/48/.2
Rm 128	601/74/55/0	Rm 110	612/74/47/.4
Weapons Vault	583/63/50/0	Rm 113	548/75/72/.6
Supply Area	596/68/53/.3	Rms 201-224 Avg	539/73/73/0
Kitchen	498/74/53/0	Pantry	503/64/53/.5
Rm 131	511/73/41/.3	Gym	528/73/45/.5

c. Illumination was surveyed throughout the building. A small number of lights were burned out or not working. All readings are in foot-candles. Levels were as follows:

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Office/Areas/Equipment	Illumination Foot Candles (ftc) # Lights/Ftc/Windows/# of lights out	Meets: IES Lighting Handbook
Drill Hall	11/ 62/ 18/ 0 2 Bay doors	Yes
M latrine Avg	6/ 34/ 0/ 0	Yes
F Latrine Avg	7/ 42 /0/ 0	Yes
IFR/SUPPLY	2/ 18/ 0/ 0	No
Rm 121	2/11/2/0	No
Rm 128	2/ 53/ 2/ 0	Yes
Rm126	4/26/0/6	Yes
Weapons Vault	6/ 106/ 0/ 0	Yes
Supply Area	6/78/0/0	Yes
Kitchen	12/ 32/ 0/ 2	Yes
Rm 131	12/46/0/0	Yes
Rm 105	2/16/5/0	No
Rm 106	2/23/2/0	Yes
Rm 108	5/ 87/ 3/ 0	Yes
Rm 114	3/80/ 1/ 0	Yes
Rm 109	2/ 26/ 5/ 0	Yes
Rm 110	2/ 86/ 5/ 1	Yes
Rm 113	6/12 / 0/ 0	No
Rms 201-224 Avg	3/ 36/ 3/ 1	Yes
Pantry/Office	2/ 42/ 0/ 0	Yes
Gym	16/ 34/ 0 /0	Yes

d. Sound level measurements were performed in all work areas of the facility. There is no significant reading, which would put personnel in harm's way. The Average reading for the facility is 50 dBa.

Office/Areas/Equipment	Noise dBa	Exceeds Noise 85 dBa Std
Drill Hall	50	No
M latrine Avg	44	No
F Latrine Avg	50	No
IFR/SUPPLY	50	No
Rm 121	48	No
Rm 128	52	No
Rm126	50	No
Weapons Vault	45	No
Supply Area	51	No
Kitchen	51	No
Rm 131	48	No
Rm 105	40	No
Rm 106	45	No

Rm 108	50	No
Rm 114	46	No
Rm 109	48	No
Rm 110	50	No
Rm 113	50	No
Rms 201-224 Avg	56	No
Pantry/Office	40	No
Gym	58	No

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e. Weapons Vault: The weapons vault was tested for lead levels, lead swipe samples were taken and sent to AES Inc. Results of the samples are listed below.

Sample Site	Result/Units ug.	Reporting Limits
VAULT FLOOR	263	20
RT WALL VAULT	BRL	20
VAULT SHELVES	24	20
VAULT DOOR IN	BRL	20
VAULT DOOR OUT	50	20
FLOOR OUTSIDE VAULT	150	20
DESK IN SUPPLY	27	20
BLANK	BRL	20
IFR ENTRANCE FLOOR	BRL	20
IFR RT WALL	BRL	20
IFR FAR WALL	26	20
IFR FLOOR CTR	BRL	20
IFR CHAIRS	BRL	20
DRILL HALL FLOOR CTR	BRL	20
DRILL HALL FLR BY SUPPLY	BRL	20
DRILL HALL FLR BY BAY DOOR	BRL	20

BRL: Not detected at the reporting limit

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f. Asbestos: Insulation around pipes was fraying in some areas. Samples were taken. All samples came back none detected (ND). All lab results are located in the attachments.



g. The flammable cabinet was maintained. The MSDS binder was easily accessible if needed.



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

- 8. Attachments
 - 1. Recommendations
 - 2. Photos
 - 3. Lab Results

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Based on interviews with the POC and other personnel as well as observations by Surveying Inc. staff and IAQ measurements, it appears the Tulsa Armory is need of the following recommendations:

- Determine where leaks are coming from, either from the roof, AC duct work or overhead piping. Then replace broken and stained ceiling tiles. Clean all vents annually or as needed. RAC 3
- The floor inside (263ug) the vault exceeded the recommended level of 200 ug. This area and all other areas around the vault should be cleaned and retested.
 RAC 3
- For levels not meeting the illumination standard. Lights that are out or broken should be fixed. In other areas supplemental lighting could be used.
 RAC 3
- General housekeeping needs to be conducted throughout the armory and drill hall. The buildup of old boxes, papers, broken and stained ceiling tiles, provide a habitat for future pest. RAC 3



Damaged Ceiling Tiles



Office second floor



Damaged Ceiling Tiles



Damaged Ceiling Tiles



Exhaust/Intakes covered in soot



Star classroom



Gym



Latrine



Supply area



Drill Hall



Kitchen

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Supply area/ Old Indoor Firing Range



Supply area/ Old Indoor Firing Range



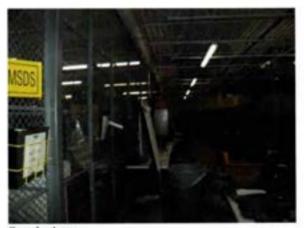
Supply area/ Old Indoor Firing Range



Supply area/ Old Indoor Firing Range



Eye Wash system works



Supply Area



Supply Area

4



Downstairs Hallway



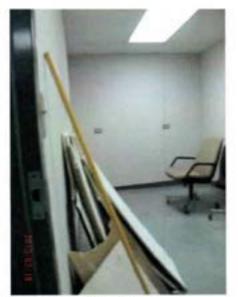
Exhaust/Intakes covered in soot



Conference room



Upstairs platoon room



Old broken ceiling tiles



Upstairs offices

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 208 of 216

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



May 06, 2013

Ion-Responsiv

National Guard Bureau Region-South IH 510 Plaza Drive. Suite 1530 College Park GA 30349



Order No: 1304O81

Analytical Environmental Services, Inc. received 1 for the analyses presented in following report.

16 samples on 4/26/2013 2:50:00 PM

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-LAP, LLC Laboratory 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.



Project Manager

National Guard Bureau Southeast Racional Industrial	(Satory		Date 11/2/1/2205 / of S
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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Buccau Page 210 of 216

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Client: National Gaard Barcon Report-South III Project: Luka Amory Lub ID: 1304041

Case Narrative

6-May-13

Date:

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Analytical Environmental Services, Inc.

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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau, Page 213 of 216

Analytical Environmental Services, Inc.

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Sample/Cooler Receipt Checklist

client National Guard Bureau Southea	st	Work Order Number 1304081
Checklist completed by Line Da	1/26/13	
Carrier name: FedEx UPS Courier Client U	IS Mail 60th	her
Shipping container/cooler in good condition?	Yes	No Not Present
Custody seals intact on shipping container/cooler?	Yes	No Not Present
Sustody seals intact on sample bottles?	Yes _	No Not Present
Container/Temp Blank temperature in compliance? (4°C±2)	Yes_V	No 5 4/29/13
Cooler #1 Ambanit 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 L
Samples in proper container/bottle?	Yes	No
Sample containers intact?	Yes	No
officient sample volume for indicated test?	Yes	No
All samples received within holding time?	Yes	No
Was TAT marked on the COC?	Yes	No
roceed 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 2
Adjusted?	Ch	hocked by
Sample Condition: Good Other(Explain)		
(For diffusive samples or AIHA lead) Is a known blank incl	uded? Yo	'es 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 3785 Presidential Parkway, Atlanta GA 30340-3704

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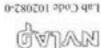
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FOIA Requested Record #J-15-0085 (OK) Released by National Guard Bureau Page 215 of 216

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Bulk Sample Summary Report

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