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EXECUTIVE SUMMARY

On July 11, 2012 Non-Responsive MPH, an Industrial Hygienist with IHI Environmental (IHI), conducted an Industrial Hygiene (IH) Assistance Visit at the Clovis Armory located at 601 South Norris Street, Clovis, New Mexico 88101. The primary point of contact for information gathered during this survey was Non-Responsive 505) 474-2236,

Non-Responsive

The objectives of this IH Assistance Visit were to perform the following activities:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system, and collect indoor air quality data;
- · review hazardous material storage and use procedures;
- review safety training and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- · perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

Significant findings for this IH Assistance Visit can be found in the Industrial Hygiene Southwest – Violation Inventory Log located in Appendix K of this report.

The report that follows this Executive Summary should be read in its entirety because it includes important information not included in this summary, such as task descriptions, work space locations, regulatory requirements, and additional recommendations.

Executive Summary

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1.0 INTRODUCTION

On July 11, 2012, **Non-Responsive**, an Industrial Hygienist with IHI Environmental (IHI), conducted an Industrial Hygiene (IH) Assistance Visit at the Clovis Armory located at 601 South Norris Street, Clovis, New Mexico 88101. The primary point of contact for information gathered during this survey was **Non-Responsive**(505) 474-2236,

Von-Responsive

1.1 Objectives

To evaluate the occupational environment of the administrative areas in the armory in order to determine the presence of operational health and safety risks, and make recommendations for corrective actions or follow-up work to manage those risks.

1.2 Scope of Work

To achieve the above objectives at this facility, the survey included the following work:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system and collect indoor air quality data;
- · review hazardous material storage and use procedures;
- review safety training, and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

2.0 PROCESS DESCRIPTION

The Clovis Armory has two full-time guard members. The armory has space used for administrative offices, a recruitment office, training facilities, a drill floor, storage rooms, a break room, a locker room, a kitchen, and a maintenance bay. There are no civilian employees at this armory and all maintenance is performed by military personnel. The only civilian activity in this armory is to rent the drill hall for private parties. Once a month, 58 IDT reserve soldiers use the facility to train. The Army National Guard members occasionally clean weapons on the drill floor, in the storage room, and in the gun vault.

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3.0 METHODS AND APPLICABLE REGULATIONS AND STANDARDS

3.1 Lead Wipe Sampling

Lead residue (dust) wipe samples were collected on horizontal surfaces, such as the drill floor, kitchen, administrative areas, and indoor firing ranges (where present), to determine housekeeping standards. Lead Wipe[™] brand wipes were used with a 100-square-centimeter template. The wipes used conform to American Standards for Testing Materials E1792, Standard Specification for Wipe Sampling Materials for Lead in Surface Dust. The collected wipe samples were placed in clean and labeled plastic containers. Samples were submitted to ALS Laboratories for analysis, using NIOSH Method 7300. See Appendix I for sample locations and Appendix J for laboratory results.

The Mather, California, office of Industrial Hygiene Southwest has developed a Standard Operating Procedure (SOP) for lead, which is a blend of OSHA, HUD, and Army regulations. Essentially, this SOP sets forth a criterion of 40 micrograms per square foot $(\mu g/ft^2)$ for converted indoor firing ranges, break rooms, floor surfaces, or any area that might be used for non-military functions. Additionally, a 200 $\mu g/ft^2$ criterion has been established for tool rooms, maintenance bays, furnace rooms, boiler rooms, storage closets, and other areas where general public access is not expected.

3.2 Painted Surface Evaluation

The interior of the armory was visually inspected for peeling paint on the walls and ceilings. Upon encountering peeling paint, a paint chip sample was collected by removing all paint inside a two-inch x two-inch template and placing it in a sampling vial. All samples were submitted to American West Analytical Laboratories (AWAL) in Salt Lake City, Utah. AWAL analyzed the samples for lead using inductively coupled plasma (ICP) and atomic emission spectroscopy (EPA SW-846, Method 6010C). See Appendix I for sample locations and Appendix J for laboratory results.

The U.S. Department of Housing and Urban Development (HUD) and EPA define "leadbased paint" as any coating that has a lead concentration of 1.0 milligram per square centimeter (mg/cm²) or greater, or if the lead concentration is greater than 0.5 percent (%) by weight. The Consumer Product Safety Commission (CPSC) currently considers paint to be

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IHI Environmental Project No. AL127188 lead-containing if the concentration of lead exceeds 600 parts per million (ppm) or 0.06% by weight. Both the CPSC and HUD definitions of lead paint are aimed at protecting the general population from exposure to lead in the residential setting.

By contrast, the mission of the Occupational Safety and Health Administration (OSHA) with respect to lead-containing paint is to protect workers during construction activities that could result in hazardous exposures. OSHA states that construction work (including renovation, maintenance, and demolition) performed on structures <u>coated with paint that contains levels</u> of lead lower than HUD and CPSC standards can still result in exposures that exceed the regulatory limits. For this reason, OSHA has not defined a lower threshold level of lead content for lead-containing paint, but states that paint with any measurable level of lead may pose a significant potential for overexposure.

Therefore, construction activities that create lead containing dust or fume must be performed in accordance with OSHA's Lead in Construction Standard, 29 CFR 1926.62. This standard requires, among other things, medical surveillance, lead training, initial exposure assessments, respiratory protection, and worker hygiene facilities.

3.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

The interior of the armory was visually inspected for signs of moisture intrusion that could result in fungal growth. Any signs of moisture intrusion (e.g., discoloration, staining, blistering) were noted and documented on a drawing for a follow-up evaluation.

3.4 Asbestos Management

Armory personnel were asked if an asbestos survey and assessment had been conducted and whether there was a written Operations and Maintenance Program for the facility. IHI also reviewed any asbestos awareness training records.

3.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

An evaluation of the heating, ventilation, and air-conditioning (HVAC) systems that serve the armory was accomplished. This evaluation consisted of a visual inspection of the system to note any obvious problems and a review of the facility maintenance plan, if one is available.

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Carbon dioxide (CO₂), temperature, and relative humidity were measured throughout the armory using a TSI Model 7565-X Q-Trak[™] IAQ Monitor. The unit was calibrated before use with certified zero gas and 1,000-ppm CO₂ span gas. See Appendix E for IAQ data.

Carbon dioxide is a normal constituent of exhaled breath and is commonly measured as a screening tool to evaluate whether adequate fresh, outdoor air are being provided. If typical CO₂ levels within a building are maintained at or less than 1,000 ppm, with appropriate temperature and humidity levels, complaints about indoor air quality should be minimized (American Society for Testing and Material (ASTM) – International D6245-12, Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality). If a building exceeds this guideline, it should not be interpreted as an unhealthy or hazardous situation. An elevated CO₂ level is only an indication that the amount of outside air being brought into a building may be inadequate or poorly distributed and further investigation may be warranted.

In building areas where there are potential sources of CO₂ other than exhaled breath, the guidelines above cannot be used. The Occupational Safety and Health Administration (OSHA) standard for CO₂ should be used in these instances. The OSHA standard is an eighthour time-weighted average (TWA) of 5,000 ppm with a short-term 15-minute average limit of 30,000 ppm.

3.6 Hazard Communication and Hazardous Material Storage

A review of the armory's chemical inventory and Material Safety Data Sheet (MSDS) file was accomplished. Chemical storage areas, i.e., flammable storage cabinets/rooms, were also inspected.

3.7 Safety Training and Record Keeping

An inspection of safety training programs and documentation was performed to determine if the armory's site-specific training programs and annual documentation were current.

3.8 Kitchen Ventilation Survey

Duct velocity measurements are performed on facility kitchen exhaust hoods (when present) using a TSI VelociCalc, Model 9515.

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 417 of 1628 The 2011 National Fire Protection Association Standard 96, Section 8.2.1.1 requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 feet per minute (fpm).

3.9 Kitchen Appliance Sound-Level Measurements

Sound-pressure-levels of the kitchen appliances (when present) are measured using a MSA Type 2 Sound Level Meter in the dBA and dBC ranges, with the meter set on slow response. DD Form 2214 is provided in Appendix M.

3.10 General Safety Walk-Through

A limited fire life safety code walk-through evaluation of the armory was performed to

- · document the presence of a fire alarm,
- determine if fire extinguishers are properly mounted and current on their monthly and annual inspections,
- · determine if eyewash station inspections are current, and
- · document any fire or safety hazards in the armory.

3.11 Equipment Used

The following equipment was used for this survey.

Type	Model Number	Serial Number	Calibration Date
TSI VelociCalc TM	9515	T95151103007	05/03/2012
TSI Q-Trak™	7565-X	7565X 0812016	11/15/2011
MSA® Sound Level Meter Type II	Type 2	00035	02/10/2012

The calibration certificates for these instruments are attached in Appendix H.

3.12 Quality Assurance

IHI employs, at a minimum, the following methods to help assure quality of field investigations and reports:

- · Use of appropriately educated and experienced personnel;
- Documentation of pertinent field and sampling information
- Continuing education of technical personnel through attendance at training sessions and conferences, and literature review;

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- Peer and supervisory review of sampling strategy, field methods, calculations, and reports;
- Strict adherence to method requirements, in particular to NIOSH and OSHA, standard methods, including strict chain-of-custody protocol;
- Use of accredited laboratories, or, in cases where specific accreditation is not available, choice of laboratories of good reputation, having strong QA/QC programs.
- Calibration of instruments, including field calibration via manufacturers' recommended procedures and routine (typically annual) off-site calibration of equipment via certified third parties.

4.0 FINDINGS AND RECOMMENDATIONS

4.1 Lead Wipe Sampling

Analytical results for lead wipe sampling indicate a lead concentration of 140 μ g/ft² inside the gun vault and 27 μ g/ft² on the floor of the maintenance bay. Both areas have restricted access to the general public. Both locations have lead levels below the IHSW recommended criterion level of 200 μ g/ft². All other sampling results were below the analytical criterion outlined in the IHSW SOP. See Appendix I for a data table and a drawing showing sample locations and Appendix J for the laboratory reports. Photographs were taken of each sampling point and are presented in Appendix C.

Recommendation

None

4.2 Painted Surface Evaluation

Two colors of peeling paint were observed on several walls. One sample, light tan in color, was collected from an office adjacent to the Officer's Briefing Room. The second sample, white in color, was collected from the south wall of the southwest classroom.

The analytical results for the paint chip samples indicates that both types of paint contain 0.0025 mg/kg of lead each. Because there is measureable lead in the sample, OSHA's Lead in Construction Standard applies when this paint is disturbed. See Appendix I for a data table and a drawing showing sample locations and Appendix J for the laboratory reports. Photographs were taken of each sampling point and are presented in Appendix C.

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Recommendation

Construction personnel must follow the requirements of the OSHA Lead in Construction Standard, 29 CFR 1926.62, if they perform activities involving this painted surface that could create lead dust or fume.

4.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

Water-damaged ceiling tiles were noted in five rooms, as well as the central longitudinal corridor. Dark staining was found on the gypsum wallboard behind the peeling paint along the south wall of the southwest classroom. Surface or airborne spore samples were not collected on the day of the survey; however, fungal growth is suspected. There was no visible evidence of fungal growth in the remaining surveyed spaces. See Appendix C for photos of the stained materials and the drawing in Appendix E for locations of these ceiling tiles.

Recommendation

Conduct a comprehensive moisture intrusion and fungal growth assessment. Ensure that all water leaks are repaired before any mitigation efforts are undertaken.

4.4 Asbestos Management

An asbestos survey could not be located during this visit. Personnel have not been provided with asbestos awareness training.

Recommendations

1. Locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.

Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

The HVAC system servicing the armory consists of four roof-mounted Trane[®] combination heating and cooling units. The heating portion of the unit consists of a gas-fired forced-air furnace. The cooling portion of the air-handling units distributes cool air through the same HVAC ducting to various areas of the building.

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 420 of 1628 The kitchen has several dedicated exhaust fans on the roof, including the stove/oven exhaust that was tested during this visit.

The average outdoor CO_2 concentration at the time of the survey was 341 ppm. The highest CO_2 concentration measured inside the building was 445 ppm, which should not result in indoor air quality complaints.

Building air temperatures ranged from 68.9°F to 74.1°F and relative humidity was between 56.2% and 68.5% during the testing period. Air temperatures were with the recommended comfort range of 68°F to75°F and the relative humidity was slightly above the recommended comfort range between 30% and 60%. Humidity levels above 60% can result in proliferation of bacteria and fungi, while levels below 30% can cause dry eyes, skin, and mucous membranes.

Recommendation

None

4.6 Hazard Communication and Hazardous Material Storage

4.6.1 Hazardous Materials Inventory and Material Safety Data Sheets (MSDS)

Inventories and all associated MSDSs for both hazardous materials storage areas can be found in the binder located inside the maintenance bay's cleaning supply room. An inspection of the chemical inventory for the cleaning supply room revealed that all hazardous chemicals are identified on the inventory list and their associated MSDSs are in the binder. The inventory for flammable materials, however, is inconsistent with the contents of the flammable storage cabinet located in the south area of the maintenance bay.

Copies of chemical inventories are provided in Appendix D.

Recommendation

Update the inventory and maintain MSDSs for the flammable materials maintained in the flammable storage cabinet.

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4.6.2 Flammable Storage Cabinets

There is one flammable storage cabinet located in the south area of the maintenance bay. The room is ventilated by general dilution ventilation. Empty fuel containers are maintained outdoors in a fenced area with a secondary containment.

The flammable storage cabinet was inspected, and no storage incompatibilities or leaking materials were found. However, the chemicals on the inventory were found to be inconsistent with the contents of the flammable cabinet. This cabinet was in good condition and all doors closed properly.

Recommendations

See recommendation for Section 4.6.1 of this report.

4.7 Safety Training and Record Keeping

The following safety documentation is maintained in the Clovis Armory:

Safety Standard Operating Procedures

- Accident Reporting
- Safety Council
- Safety Awards
- Fatigue Sleep Loss
- Cold- Heat Weather Training
- Vehicle Safety
- Fire Prevention/Protection
- Bomb Threat

The Army Safety Program, New Mexico National Guard Regulation 385-10

The following safety training documentation is maintained in the Clovis Armory:

- Additional Duty Safety Courses (ADSC)
- Commander's Safety Course
- Fire and Safety
- Risk Management
- Electrical Safety
- Fire Marshal's Program (IAW: Fort Hood Regulation 420-1)
- NMARNG-SRP Range OIC and Safety Officer Certification Course
- Weapons Safety

The last Safety Council Meeting was held on March 3, 2012. In addition, the NMARNG has other training courses with reference to safety training.

IH Assistance Visit NMARNG - Clovis Armory IHI Environmental Project No. AL127188 Note: IHI did not conduct a thorough evaluation of the contents or quality of any of the documents identified during this visit.

Recommendation

None

4.8 Kitchen Ventilation Survey

There is a roof-mounted exhaust fan located in the south area of the kitchen servicing the stove/oven. Duct velocity measurements could not be directly obtained for the exhaust fan due to its configuration; therefore, duct velocity estimates were calculated using measurements of the face velocity of the hood, the dimensions of the exhaust hood located in the kitchen and diameter of the duct on the roof.

A volumetric flow rate of 1,452 cubic feet per minute (cfm) was obtained from the face of the exhaust duct. This volumetric flow equates to a duct velocity of approximately 1,040 feet per minute (fpm) from the 16-inch circular duct that exhausts air from this hood.

This kitchen exhaust duct meets the 2011 National Fire Protection Association Standard 96, Section 8.2.1.1, which requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 fpm.

Recommendation

None

4.9 Kitchen Appliance Sound-Level Measurements

Sound-level measurements were recorded for the True[®] freezer, Southbend[®] food warmer, and exhaust hoods serving the stove/oven and dishwasher. The garbage disposal was not evaluated for sound-pressure levels because it was broken on the day of the survey. All of the kitchen appliances measured produce noise levels well below the hazardous noise criterion of 85 dBA. Based on this information, there is no need for noise reduction measures or additional noise dosimetry surveys for this area.

Recommendation

None

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4.10 General Safety Walk-Through

1. Housekeeping throughout the facility was good.

2. There are fire alarms present in this facility.

3. Fire extinguishers are strategically located throughout the armory. The annual and monthly inspections were out of date on several of the fire extinguishers, including the extinguishers in the kitchen and supply room.

4. Eyewash stations were not observed in this facility.

5. Fire evacuation routes and emergency exit signs are posted throughout this armory.

 A cover plate on an electrical panel in the kitchen (Box "K") was missing and wires areaccessible.

7. There was no ground fault circuit interrupter (GFCI) outlet located within six feet of the kitchen sink.

Recommendations

- 1. Ensure all fire extinguishers undergo an annual and monthly maintenance check.
- Replace the cover plate on electrical panel box K in the kitchen so electrical wires cannot be contacted.
- 3. Install GFCI protection on any outlets within six feet of a water source.

5.0 PROJECT LIMITATIONS

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, IHI's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. IHI assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of IHI, or from omissions or errors in public records.

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 424 of 1628 Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since IHI is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

6.0 **PROJECT APPROVAL**

This IH Assistance Visit was reviewed and approved by:

onsi

October 26, 2012 Date

Technical Assistance: For technical assistance regarding information found in this report or the performed survey, please contact **Non-Responsive** at 801-466-2223, or **Non-Responsive** of the Southwest Regional Industrial Hygiene Office at 916-804-1707.

Contact the State Safety and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations are needed.

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Appendix A

References

- American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice
- American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices
- American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting.
- American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment
- AR 40-5, Preventative Medicine
- AR 40-10, Appendix B Health Hazard Assessment Program in Support of Army Material Acquisition Decision Process
- AR 385-10, The Army Safety Program
- Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation.

National Safety Council, Fundamentals of Industrial Hygiene

NOR 385-10, Army National Guard Safety and Occupational Health Program

TB MED 503, The Army Industrial Hygiene Program

- TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide
- TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997
- Title 29, Code of Federal Regulations (CFR), 2011, revision Part 1910, Occupational Safety and Health Standards

Appendix B

Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in 29 CFR 1910, ACGIH Industrial Ventilation Manual, and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD¬1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling was conducted in compliance with applicable NIOSH Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL).

Occupational Safety and Health Administration (OSHA)

OSHA has established Permissible Exposure Limits (PELs) for workplace toxic and hazardous substances listed in 29 CFR 1910.1000 Table Z-1. Most OSHA PELs are based on 8-hour time weighted averages (TWAs); when sampling periods differ from 8 hours, the result must first be converted to an 8-hour TWA before comparing it to the OSHA PEL. Some OSHA PELs are based on Short Term Exposures Limits (STEL) of 15 minutes of worst case exposure or Ceiling Limits of worst case peak exposures (sampled as a 15 minute exposure if direct-reading methods are not available).

OSHA regulations are legally enforceable. Employers are required to maintain employee exposures below PELs. The best practice is to eliminate hazards and use safer substitutes. Alternatively, engineering and/or administrative (work practice) controls may reduce exposures to acceptable levels. Personal protective equipment should be the solution of last resort, implemented after all other efforts to eliminate the hazard have been exhausted or deemed infeasible. OSHA 29 CFR 1910.134 covers the use of respiratory protection in the work place.

American Conference of Governmental Industrial Hygienists (ACGIH)

Unlike the OSHA PELs, the ACGIH TLVs are not consensus standards; however, TLVs represent a scientific opinion based on a review of existing peer-reviewed scientific literature by committees of experts in public health and related sciences.

Occupational Exposure Limit

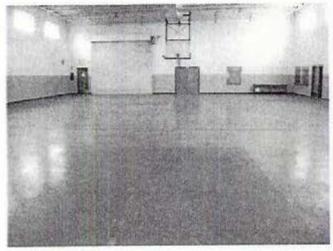
In accordance with the Department of the Army (DA) Pamphlet 40-503, Industrial Hygiene Program (DA PAM 40-503), "The DA mandates the use of ACGIH TLVs when they are more stringent than OSHA regulations or when there is no PEL." The DA defines the resulting exposure limit as the Occupational Exposure Limit (OEL).



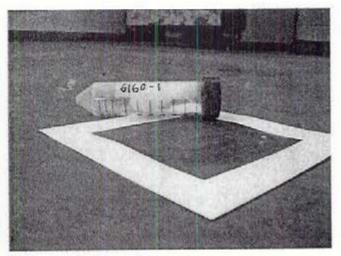
Photograph 1 Clovis Armory, exterior, north side



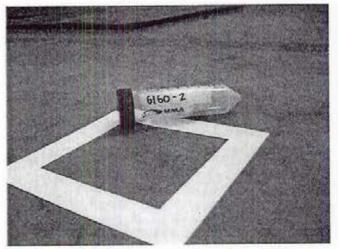
Photograph 2 Clovis Armory, exterior, east side



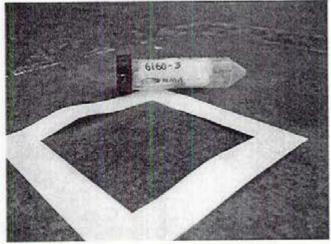
Photograph 3 Clovis Armory Gymnasium/Drill Hall



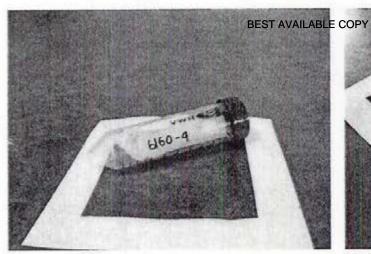
Photograph 4 Lead wipe sample location 6160-1



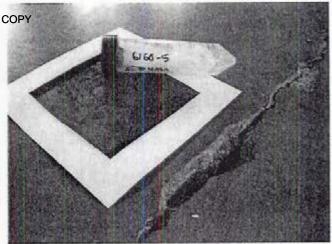
Photograph 5 Lead wipe sample location 6160-2



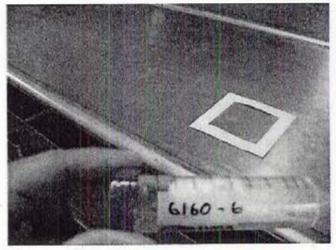
Photograph 6 Lead wipe sample location 6160-3



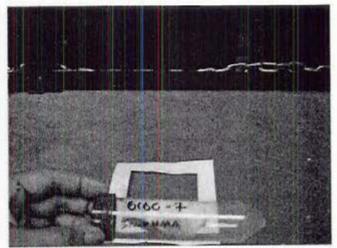
Photograph 7 Lead wipe sample location 6160-4



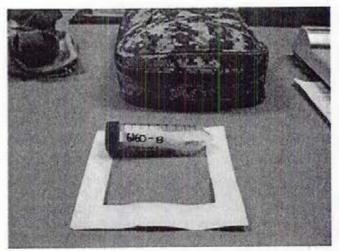
Photograph 8 Lead wipe sample location 6160-5



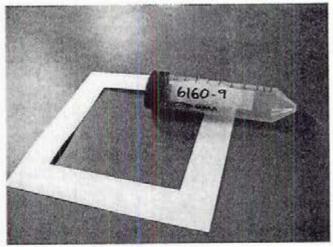
Photograph 9 Lead wipe sample location 6160-6



Photograph 10 Lead wipe sample location 6160-7



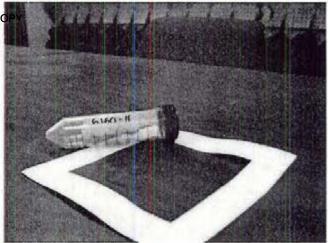
Photograph 11 Lead wipe sample location 6160-8



Photograph 12 Lead wipe sample location 6160-9



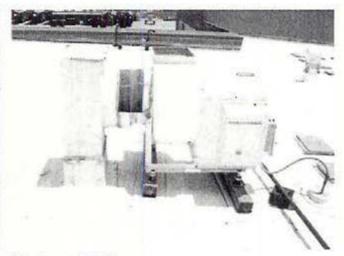
Photograph 13 Lead wipe sample location 6160-10



Photograph 14 Lead wipe sample location 6160-11



Photograph 15 Kitchen exhaust hood over stove/oven and food warmer



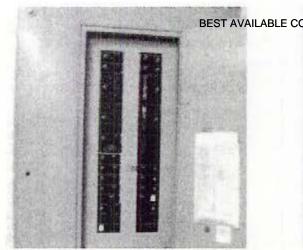
Photograph 16 Roof fan for exhaust hood over stove/oven and food warmer



Photograph 17 Flammable storage cabinet, closed



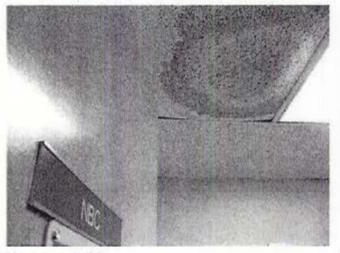
Photograph 18 View of contents of flammable storage cabinet, open



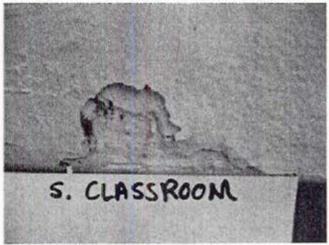
Photograph 19 Safety, missing cover plate on electrical panel



Photograph 20 Safety, expired fire extinguishers



Photograph 21 Water stained ceiling tile in NBC Room



Photograph 22 Dark water staining on wall in south classroom

MATERIAL SAFETY DATA SHEET

TABLE OF CONTENTS

CHEMICAL ITEMS

A. ULTRA HI MAINTAINER

B. SUPER SPARY LOK

C. FLOOR SEALER

D. BOWEL CLEANER

E. SIMPLE GREEN HAND CLEANER GEL

F. BRAVO HEAVY DUTY LOW ODOR STRIPPER

G. CAREFREE

H. LITE'N FOAMY SUNFLOWER FRESH

I. TOILET SOAP

J. SCORING POWDER

K. LEMON FURNITURE POLISH

L. 700 SPECIAL MOP TREATMENT

M. COJOLOTION CREAM SOAP

N. PINE OIL

O. FLOOR FINISH RESTORER

P. AJAX

Q. GLASS CLEANER RTU

R. FULL BACK

S. SPRAY BUFF

T. KITCHEN MATE DISHWASHING DETERGENT

U. NULTI-SURFACE CLEANER & POLISH

V. ENVIRO PATROL NEUTRAL CLEANER

W.DOUBLE PLAY (HAND CLEANER)

X. RAB ROD (DRAIN OPENER)

Y. 2U054- PROTÉGÉ FLOOR FINISH

Z. GLASS PRO, AEROSOL GLASS CLEANER

 COCONUT LIQUID HAND SOAP 2. GLASS PRO, AEROSOL GLASS CLEANER 3. SKILLCRAFT POWER DUSTER 4. PURELL INSTANT HAND SANITIZER 5 GOJO ALL SKIN CLEANER 6. LEMON OIL FUNITURE POLISH 7. HEALTH GARDS PARA TOSS 8. RING MASTER ALL BATHROOM CLEANER 9. SPRAY NINE 10 SPIC AND SPAN ALL PURPOSE CLEANER BRITE GLO CLEANSER W/BLEACH 11. 12 LAUNDRY DETERGANT 13. BETCO EASY TASK SW URNIAL SCREENING PAD 14 2CYH9 READY TO USE SPRAY BUFF# 130 15. SW 2000 EXTRA POINT RESTORER 16. SW 2000 TOUCHDOWN ULTRA HIGH SPEED FLOOR FINISH 17 SW 2000 LINEBACK LINE MAINT FLOOR FINISH 18. SW 2000 LINEBACK SPEED STRIPPER 19. SW 2000 OUARTERBACK NEUTRAL CLEANER 20. TERRA COTE HARD FLOOR SEAL/FINISH 21 SOFT SCRUB W/BLEACH 22. 7930-00-267-1224 METAL/ALUMINUM POLISH 23. CARE ALL HAND SOAP 24 SW PINE DISINFECTANT 25. CHEM MIST COCONUT OIL HAND SOAP 26 SW 2000 40% COCONUT LIQUID HAND SOAP 27. **GOJO ORANGE HAND CLEANER W/PUMP** 28. SW 15 TO 1 CONCENTRATED GLASS CLEANER 29. CLR GREASE MAGNET 30.

31. M.A.D DESK/OFFICE CLEANER

A. COMBO PLUS CLEANER, DEODORIZER, DISINFECTANT B. LEMON SCENT FESTIVAL FURNITURE POLISH C. GOJO ENHANCED FORMULA PINK & CLEAN SKIN CLEANER D. GOJO LOTION CREAM SOAP

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MATERIAL SAFETY DATA SHEET TABLE OF CONTENTS

FLAMMABLE ITEMS

A. LUBRICANT PROTECTANT

B. POLISH METAL ALUMINUM TYPE 1

C. ISOPROPANOL(ISOPROPYL ALCOHOL)

D. DOUBLE PLAY

E. AEROSOL

F. GARDFLEET SAE 30 DIESEL ENGINE OIL

G. GREASE AUTOMOTIVE & ARTILLERY

H. WINDSHIELD WASHER

I. DUR-A-PLEX 800

J. TYPE 1 COATING, WATER DISPERSIBLE ALIPHATIC PLOYURETHANE

K. MIL C 450 TYPE II

L. BODY FILLERS (REG PLASTIC BODY FILTER)

M. PROMAR 200 INTERIORLATEX SEMI-GLOSS ENAMEL

N. RIFLE BORE CLEANER

O. TOLUENE TECHICAL

P. DEIONIZED WATER

Q. LUBRICATING OIL, GEAR

R. POULAN TWO-CYCLE ENGINE OIL

S. LUBRICANT TIRE

T. 2-CYCLE ENGINE OIL ACE

U. DELO 400 MUTLIGRADE SAE 15 W-40

V. ICE-FOE

W. COATING, ALIPHATIC POLYURETHANE BLACK

10.000								
Face Di	mensions =		18 X	80	Inches			
Face Ar	rea =	10	ft ²					
		Face	Vel. Measu	irement P	oints			
	1	3	5	7	9	11		
	2	4	6	8	10	12		- 100000
	Face Veloc	ity Measur	rements					
	Point	Flow rate	and an					-
		94						
	1 2	116				- 10 - ES-1 742		-
	3	232						
	4	182						
	5	98						1
	6	191						
	7	131						
	8	67						
	9	228	2011 C		10		_	
	10	54						
	11	156						
	12	194						
Ave Flo	ow Rate (V) =	145.25	fpm					
			ft ²					
Q = A		<u> </u>						
Q =		1452.5	CFM				_	
Exhaus	t Duct Diamet	ter =		16	inches		-	-
Exilaus			-					
Area of Roof Top Exhaust Duct =			=	1.39627	the second se			
	ed Duct Velo			1040.27	fpm	College Street In	-	-

Clovis

- primary activities physical fitness training

7/11/12

primary unit - Alpha la 717 BSB - only unit. -no co-tenants

39. Ft:

work sched: m-F

I maintenance bay in back of blog.

personnel.

-2 full time (admin, military)

-58 IDT Reserve soldiers (come to facility for training 1×(mo) -0 matrit personnel - maint. conducted by

admin

O employees in HCP

O in Resp. protec. program

O in med surv.

O in vision program

no aslo. program / no awareness traing... no knowledge Posted to NGB FOLAReading Room in Versional Non-Responsive May, 2018 Released by National Guard Bureau Page 438 of 1628

1.10

12

Clovis

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ontents

Joesret matern

Channs in

of Josef

meanipot

locker.

27

7/11/12

weapons cleaned -

- drill hall floor -
- storage room
- Value

civilian activities

- rent drill hall for parties
- support office INACTIVE : Family

Equip

- Cabinets storage chemical supplies cleaning
 - ms inventor flammobies

dBA

68

77

100th	re	
mpot	Nor	00 0
fer.	N	oise
schex		

food warmar southbend	78

- True brand 68 61 er freez
- Kitchen exhaust hood over dish washer
- Kitchen exhaust hood over stovel oven

exhaust Vitchen over sink hood

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dBe

49

76

85

Posted to NGB FOIA Reading Room May, 2018

HVAC cooling + heating unit combo Trane heatthop portion - forced air furnace, natural gas attached to heating separate unit. Cooling serving the blodgy 4 combo units Kitchen exhaust vent suy. (store oven) roof: duct diam 16" 1.3 ft -> 80" interior: hood dimentions 18" x × 6.67 ft 1.5 05 4 be token PO. could not 156 vitect min 228 positionword 131 232 98 94 For allows 15 Fi duct doesfit 67 194 191 54 182 drilling 116 VIO FOOF Nood ears mme Indivect VEBOTIER OF C.67 ft 145.25 face velocity ava 5 of hood ~ 10 Ft2 avea . Q = 1452,5 at hood Q=VA Assuming 1035 NH ho roof duct of duct = TT 1.32 A2 drea Q=VA 1452.5/ tom Posted to NGB FOIA Reading Room FOIA Requested Record #J-15-0085 (NM) May, 2018 Released by National Guard Bureau

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NON

»/c

Dish washer exhaust hood

duct diam on roof: 20" or 1.67. FE [EXHIMUST FIAN #12] interior: hood dimentions: 31" × 32.5" or 2.58 Ft × 2.7 A hood area : 27. Ft2

 $u \, duct \, area = \pi x (1.67/2)^2 =$

face velocity ang 147 194 216 172.1 fpm 136 208 156 32.5" 186 161 173 or Q= VA 2.7 ft 137 163 188 = (172.1) 7 F+2) 31" = 1204.6 cfm or 2.58 Ft

Assuminary NO Loss 12046 = (V) (2.2 ft2)

V= 547.5 or 548

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Exhaust hood above sink roof : diam duct on 20" 1.67 Et [EXHAUST FIN #15] Dr .. dimentions of hood BI" × 32.5" 2.7 ft 05 2-58 × 7 42 ang face velocity = 92. 62 97 . Bo fpm 80 75 51 32.5 hood Q = VA 94 23 84 (80 fpm) (7 A2) * 90 90 62 = 560 cfm ASSUMINCE NO LOSS duct Q= YA of duct 560 cfm area TTr2 $(0.83)^2 = 2.61$ TT A 255 fpm walkthrough afety exits urmsl fire extinguisher has expired annual monthing < aup ve maps ed no GCFI near kitchen sink

electrical panel K missing plate

OK

Posted 6000B FOIA Reading Room on Floor (Litchan) -FOIA Requested Record #J \$6085 (NM) May, 2018 Released by National Guard Bureau Page 442 of 1628 BEST AVAILABLE COPY

estimations from (head) face velocity Duct velocity Sitoveloven exhaust washer exhaust Sink exhaust Dish n Cit 94 1 216 97 55 208 16 2 80 186 232 94 4 182 188 90 6 98 194 92 6 191 136 75 (7)131 173 83 B 163 67 90 228 137 62 (10) 54 47 51 156 A 156 84 12 94 161 62 172. Averono OB 145.25 FF ftindres An inches menes 18" 1.5 32.5 Dimentions 31 31 32.5 80" 2.58 2.70 2.58 6.67 2,70 ff2 Area ft2 be 10 ft + Ft inches f+ inches netres F& Diam [.3 1.67 20 16 1.67 20 r=-63 r= .6% .3 ff2 T (0.835)2 = ~ 2.2 A2 0.65) area TT 0.835)= 47.2A2 5 TI Posted to NGB FOIA Reading Room FOIA Requested Record #J-15-0085 (NM) May, 2018 Released by National Guard Bureau Page 443 of 1628

EXPOSIT AVAILABLE COPY Stove oven dish ovasher sink od Q: Q= VA Q = (145.25 fpm) (10 A2). 9=(172.08) 7 ++2) Q=(80.4 = 1452.5 cfm 1204.6 cfm = Assuminex loss * NO ict velocity given: A = 1.3 A2-A= 2.2 ft2 2.2 AZ Q = 1952.5 cfm Q = 1204.6 cfm Q = 560 cm Q=VA 1204.6 2.2 1452.5 cfm = 1117.3 560 547.5 duct velocito 755 548 Posted to NGB FOIA Reading Room FOIA Requested Record #J-15-0085 (NM) May, 2018 Released by National Guard Bureau

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WN chem lockers storage - cleaning supplies MSDS inventory 10K - flammables in a VOOM win maint inventory inconsistent un contents of cabinet. no incompat. chems though w/ fuel containers outdoors 10K Care segregated contaiment 20 compressed tomics an NO peeling paint wall - tan samp taken office hom ordy. to breifing room. - white point. classroom dark staining on. behind wall pecting paint-- possible mold growth stained files - Stained Lots. HO 6F other than classroom no vis. mold. they have a poorly sealed roof suoivde (- the intrusion problem.

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FACILITY INFORMATION

(Information listed in First Section) (1st Few Paragraphs/Pages of Report)

1. Date Prepared: 7/11/12

2. Names (and Company Name) of Personnel Conducting Industrial Hygiene Site Assistance Visit: on-Responsive

3. Facility Name and Brief Summary of Primary Activities Conducted at Facility: Clovis Armory. Primary activities include metal focus training, physical fitness training

Facility Address:
 601 South Norris Street, Clovis, NM, 88101

5. Primary Unit Assigned to Facility (Ensure to capture and provide Unit Identification Code (UIC)):

Alpha Co 717 BSB

6. Co-Tenant Units Assigned or Working Within Facility (LIST ALL): No other unit at this facility

7. Square Ft. Area of Facility:

8. Work Schedule: M-F

9. Number of work bays:

1 maintenance bay

10. Equipment Density and Type:

a. List Equipment Nomenclature Serviced or Maintained at Facility:

b. List Total Number for Each Nomenclature Serviced or Maintained at Facility:

11. Total Number of Personnel: 2

12. No. of Admin. Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee): 2 AGR

LHON

1 | Page

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13. No. of Maintenance Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee):

No maintenance personnel assigned to this facility. All maintenance is conducted by administrative personnel.

14. Total Number of Personnel Enrolled in the Hearing Conservation Program: 0

15. Total Number of Personnel Enrolled in the Respiratory Protection Program:0

16. Total Number of Personnel Enrolled in the Medical Surveillance Program:0

17. Total Number of Personnel Enrolled in the Vision Program: 0

18. Facility Commander:

a. Email address, Commercial Telephone Number and Unit Assigned to:

19. Safety Officer:

a. Email Address, Commercial Telephone Number and Unit Assigned to:

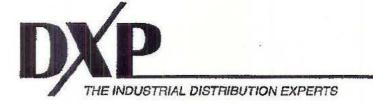
20. Facility Telephone Number:

Non-Responsive

2 | Page

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Technical Services Division

Certificate of Calibration

The following equipment was calibrated to manufacturer's specification with instrumentation whose accuracies are traceable to the National Institute of Standards and Technology.

Manufacturer:

MSA

Model:

Sound Level Meter Type 2

Serial Number:

00035

Calibration Date:

Calibrated By:

February 10, 2012

Non-Responsive

1111 South 27th Street Billings, Montana 59101 1-800-947-7120

Posted to NGB FOIA Reading Room May, 2018

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SESTI W



Technical Services Division

Certificate of Calibration

The following equipment was calibrated to manufacturer's specification with instrumentation whose accuracies are traceable to the National Institute of Standards and Technology.

Manufacturer:

MSA

Model:

Sound Level Calibrator 6950

Serial Number:

07349

Calibration Date:

Calibrated By:

February 10, 2012

Ion-Responsive

1111 South 27th Street Billings, Montana 59101 1-800-947-7120

Posted to NGB FOIA Reading Room May, 2018

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ENVIRONMENT CO	NDITION		Partie - An Parameter	1		.	7501	
TEMPERATURE		66.9 (19.4)	°F (°C)	Modi	EL		7565)-X
RELATIVE HUMIDITY		21	%RH	Conve	L NUMBER		7565X08	12016
BAROMETRIC PRESSL	JRE	28.60 (968.5)	inHg (hPa)	J SERIA	L INUMBER		1000/100	112010
As Left	-			TOLERAN			1. 1. 1. 1.	2
	- C A 1	IBRAT				LESULT	s –	
THERMO COUPLE				a in the	SURE01-02		and a second second	Unit: °F (°C,
# STANDARD	MEASURED		ABLE RANGE		and the second s	MEASURED	ALLOWA	BLE RANGE
1 72.3 (22.4)	72.3 (22.4)	70:3~74	4.3 (21.3~23.5)					
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Measurement Va Temperature Pressure	riable System E00241 E00398	<u>ID Last C</u> 16 03-25- 32 10-03-	11 03-25-12 11 04-03-12	Measu Pressu	rrement Variable		10012:2003. Last Cal. 10-06-11 01-05-11	<u>Cal. Due</u> 10-06-12 01-05-12
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TS,	Сен	TSI Inc Tel: 1-800-8	14 DOLI 1-031-45						
ENVIRONMENT CO	NDITION			Mon			Γ	756	5-Y
TEMPERATURE		67.1 (19.5)	°F (°C)	MOD	EL			7000	J-A
RELATIVE HUMIDITY	<u>.</u>	. 21 .	%RH .	- SERL	AL NUMBER	3	7	7565X08	312016
BAROMETRIC PRESS	URE	28.60 (968.5)	inHg (hPa)				L		
AS LEFT			144 IL	N TOLERAN OUT OF TOI					
	- CAL	IBRATI	ION VER	IFIC	ATION	Resu	LTS	i —	
THERMO COUPLE	3				SSURE01-0				Unit: °F (°C
# STANDARD	MEASURED		ABLE RANGE	# 8	TANDARD	MEASUR	ED	ALLOWA	BLE RANGE
1 72.3 (22,4)	72.1 (22.3)	10.5~14	and the second	Inter Dia Ta	COTIDE AL	2		ri.e	t: inHg (hPa
BAROMETRIC PR	MEASURE	AU	OWABLE RANGE		SSURE01-0 STANDARI	-	URED	and the second statements	ABLE RANGE
1 28.67 (970.9)	28.65 (970.2)		29.24 (951,6~990						
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OF CALIBRATION AND TESTING CERTIFICATE

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsl.com

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TSI P/N 230015

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CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

CONDITION				TODEL	.e. 	982
	70.2 (21.2)	°F (°C)				
TΥ	16	%RH		PDILL MILLAN	ich.	P08100015
SSURE	28.87 (977.7)	inHg (hPa)		ERIAL NUMB	EK.	F00100013
			20100329990	23.73.4547 27.978	a di se companya di s	
- C A 1	IBRATI	ON VEI	RIF:	CATIO	NRESULT	г s –
VERIFICATION			SYS	ГЕМ Т-101		Unit: °F (°C
MEASURED	ALLOWAB	LE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
32.1 (0.0)	31.0~33.0	(-0.6~0.6)	2	140.0 (60.0)	140.1 (60.0)	139.0~141.0 (59.4~60.6).
IFICATION			SYST	TEM H-102	n an	Unit: %R
MEASURED	ALLOW	ABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
9.4	- 7.	8-12.2	4	70.0	69.8	67.8-72.2
29.9	27	.8-32.2	5	90.0	89.2	87.8-92.2
50.2	47	.8~52.2				
ICATION		and a strain of the	SYST	TEM G-101		Unit: ppi
	ALLOW	ABLE RANGE	#.	STANDARD	MEASURED	ALLOWABLE RANGE
0		0~50	4	3001	2993	2911~3091
. 507	40	2-562	5	4926	4918	4778-5074
1010	96	0-1060	11/2	1		
CATION		- and in the state of the state	SYST	TEM G-101	in the second	Unit: pp
MEASURED	ALLOWA	ABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
35		2~38	2	100	. 99	. 97~103
	- C A 1 VERIFICATION MEASURED 32.1 (0.0) IFICATION MEASURED 9.4 29.9 50.2 7ICATION MEASURED 0 507 1010 ECATION MEASURED	70.2 (21.2) TY 16 SSURE 28.87 (977.7) - C A L I B R A T I VERIFICATION MEASURED ALLOWAB 32.1 (0.0) 31.0~33.0 IFICATION MEASURED ALLOWA 9.4 7. 29.9 27 50.2 47 7ICATION MEASURED MEASURED ALLOWA 0 507 1010 96 ICATION MEASURED MEASURED ALLOWA	70.2 (21.2) °F (°C) TY 16 %RH SSURE 28.87 (977.7) inHg (hPa) Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system - C A L J B R A T I O N V E R VERIFICATION Measured Allowable Range 32.1 (0.0) 31.0~33.0 (~0.6~0.6) IFICATION Measured Allowable Range 9.4 7.8~12.2 29.9 27.8~32.2 50.2 47.8~52.2 7ICATION Measured MEASURED Allowable Range 0 0~50 507 462~562 1010 960~1060 ICATION Measured MEASURED Allowable Range	70.2 (21.2) °F (°C) N TY 16 %RH SSURE 28.87 (977.7) inHg (hPa) SURE 28.87 (977.7) inHg (hPa) OUT OF - C A L I B R A T I O N V E R I F I VERIFICATION SYST MEASURED ALLOWABLE RANGE # 32.1 (0.0) 31.033.0 (-0.6-0.6) 2 IFICATION SYST MEASURED ALLOWABLE RANGE # 9.4 7.812.2 4 9.9 27.832.2 5 50.2 47.852.2 5 MEASURED ALLOWABLE RANGE # 0 050 4 507 462562 5 1010 9601060 5 MEASURED ALLOWA	70.2 (21.2) °F (°C) MODEL TY 16 %RH SERIAL NUME SSURE 28.87 (977.7) inHg (hPa) SERIAL NUME □OUT OF TOLERANCE □OUT OF TOLERANCE □OUT OF TOLERANCE □OUT OF TOLERANCE □OUT OF TOLERANCE 10 VERIFICATION SYSTEM T-101 Measured MEASURED ALLOWABLE RANGE # STANDARD 32.1 (0.0) 31.0~33.0 (-0.6~0.6) 2 140.0 (60.0) IFICATION SYSTEM H-102 MEASURED ALLOWABLE RANGE # STANDARD 9.4 7.8~12.2 4 70.0 29.9 27.8~32.2 5 90.0 50.2 47.8~52.2 5 7ICATION SYSTEM G-101 MEASURED ALLOWABLE RANGE # STANDARD 0 0~50 4 3001 507 462~562 5 4926 1010 960~1060 5 IMEASURED ALLOWABLE RANGE # STANDARD 0 0~50 4 3001 507 462~562 5 4926 1010 960~1060 5 <	70.2 (21.2) °F (°C) TY 16 %RH SSURE 28.87 (977.7) inHg (hPa) SERIAL NUMBER SURE 28.87 (977.7) inHg (hPa) SERIAL NUMBER SURE 28.87 (977.7) inHg (hPa) SERIAL NUMBER OUT OF TOLERANCE OUT OF TOLERANCE OUT OF TOLERANCE VERIFICATION SYSTEM T-101 MEASURED ALLOWABLE RANGE # STANDARD MEASURED ALLOWABLE RANGE 9.4 7.8-12.2 9.4 7.8-2.2 9.9 27.8-32.2 50.2 47.8-52.2 7CATION SYSTEM G-101 MEASURED ALLOWABLE RANGE 9.4 7.8-32.2 50.2 47.8-52.2 7CATION SYSTEM G-101 MEASURED ALLOWABLE RANGE 0 0-50 4 3001 2993 507 462-562 5 507 462-562 5 1010 960-1060

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Temperature	E003986	10-24-11	04-24-12	Temperature	E003987	10-24-11	04-24-12
Humidity	E003539	08-30-11	02-29-12	5000 CO2	EB0015430	08-03-11	03-04-12
200 CO	CC188518	07-28-11	07-27-14	N2	K100246116	11-04-11	10-26-16
Air	HP-T-098370	10-11-11	09-16-14	Flow	E003297	04-20-11	04-20-12
Flow	E003298	04-22-11	04-22-12	Flow	E003501	06-08-11	06-08-12
Flow	E003980	08-17-11	08-17-12	2000 C4H8	CC314662	06-04-09	06-04-12
100 C4H8	EB0014789	05-06-09	05-06-12				

DOC ID: CERT_GEN_WCC

Non-Responsive

November 16, 2011

DATE

Posted to NGB FOIA Reading Room May, 2018

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CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

LI	VIRONMENT (CONDITION		Normal Contraction of the		MODEL		9515
TE	MPERATURE		66.7 (19.3)	°F (°C)		MODEL		9919
RE	LATIVE HUMIDI	ТҮ	58	%RH		Dennis Mana		T05454402007
BA	ROMETRIC PRES	SURE	28.78 (974.6)	inHg (hPa)	-	SERIAL NUM	BER	T95151103007
	As Left As Found		LIBRATI		ļóut	OLERANCE OF TOLERANCE FICATIO	N 'R ESUL	.T. S
T]	EMPERATUR	RE AS FOUND			S	YSTEM T-101		Unit: °F (°C)
#	STANDARD	MEASURED	ALLOWAB	LE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
	32.0 (0.0)	32.1 (0.1)	31.5~32.5	(-0.3~0.3)	2	140.0 (60.0)	. 139.7 (59.8)	139.5~140.5 (59.7~60.3)
Į	52.0 (0.0)	the date is a second seco					sheat, the attraction of the	
1 VI	ELOCITY VER	FICATION			S	YSTEM V-107		Unit: fi/min (m/s)
I VE #	Larger and a state of the second	IFICATION MEASURED	ALLOWABL	RANGE	\$ #	STANDARD	MEASURED	Unit: fi/min (m/s) ALLOWABLE RANGE
1 ¥ 1	ELOCITY VER		ALLOWABLI -5~5 (-0.0		· · ·		MEASURED 686 (3.49)	
1 # 1 2	ELOCITY VER Standard	MEASURED	and the second sec	3~0.03)	#	STANDARD		and the second
# 1 2	ELOCITY VER Standard 0 (0.00)	MEASURED 0 (0.00)	-5~5 (-0.0	3~0.03) 3~0.18)	#	STANDARD 700 (3.55)	686 (3.49)	ALLOWABLE RANGE 665-735 (3.38-3.73)
# 1 2 3	ELOCITY VER Standard 0 (0.00) 30 (0.15)	MEASURED 0 (0.00) 26 (0.13)	-5~5 (-0.0) 25~35 (0.1)	3~0.03) 3~0.18) 3~0.33)	# 7 8	STANDARD 700 (3.55) 1198 (6.09)	686 (3.49) 1195 (6.07)	ALLOWABLE RANGE 665-735 (3.38-3.73) 1138-1258 (5.78-6.39)
#	ELOCITY VER STANDARD 0 (0.00) 30 (0.15) 61 (0.31)	MEASURED 0(0.00) 26(0.13) 61(0.31)	5~5 (-0.0 25~35 (0.1 56~66 (0.2	3~0.03) 3~0.18) 8~0.33) 8~0.53)	# 7 8 9	STANDARD 700 (3.55) 1198 (6.09) 1922 (9.76)	686 (3.49) 1195 (6.07) 1915 (9.73)	ALLOWABLE RANGE 665-735 (3.38-3.73) 1138-1258 (5.78-6.39) 1826-2018 (9.28-10.25)

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants, TSI's calibration system is registered to ISO-9001;2008 and meets the requirements of ISO 10012:2003.

RT_GEN_WCC

Measurement Variable	System ID	Last Cal.	Cal. Due
Temperature	E003986	04-17-12	10-17-12
DC Voltage	E001653	06-24-11	12-24-12
Temperature	E001643	02-16-12	08-16-12
Pressure	E002389	03-06-12	09-06-12

Measurement Variable	System ID	Last Cal.	Cal. Due
Temperature	E003987	04-17-12	10-17-12
Barometric Pressure	E001992	04-06-12	04-06-13
Pressure	E001718	12-07-11	06-07-12
Velocity ·	E003327	09-19-07	09-19-12



May 3, 2012

DATE

1SI P/N 2300-

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 454 of 1628

TEMPERATURE VERIFICATION System in Hig (hPa) TEMPERATURE VERIFICATION $MEASURED$ ALLOWABLE RANGE # System # STANDARD MEASURED ALLOWABLE RANGE # System VELOCITY VERIFICATION System System System System # STANDARD MEASURED ALLOWABLE RANGE # System 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 1 Standard MEASURED ALLOWABLE RANGE # System 1 Standard MEASURED ALLOWABLE RANGE # System 1 O(0.00) 0 (0.00) -5-5 (-0.03-0.03) 7 3	DEL MAL NUMBER ANCE OLERANCE C A T I O N R E S EM T 101 STANDARD MEASUR 139.7 (5) TEM V-111 STANDARD MEASUR C S 698 (3)	9515 T9515110 ULTS- (ED ALLOWAR 98) 139.5-140.5 Unit	03007	
NVIRONMENT CONDITION INVIRONMENT CONDITION EMPERATURE 66.7 (19.3) °F (°C) ELATIVE HUMIDITY S8 %RH SER SAROMETRIC PRESSURE 28.78 (974.6) IMHg (hPa) SAROMETRIC PRESSURE COUT OF T IDOUT OF T SYST STEMPERATURE VERIFICATION SYST YELOCITY VERIFICATION SYST VELOCITY VERIFICATION SYST YELOCITY VERIFICATION SYST <t< th=""><th>ANCE OLERANCE C A T I O N R E S EM T IOI STANDARD MEASUR 40:0 (60.0) 139.7 (5) TEM V-111 STANDARD MEASUR (55) 698 (3)</th><th>ULTS- (BD ALLOWAS 9.8) 139.5-149.5 Uni Viti OWA</th><th>Unit: °F (°C). LE RANGE 5 (59.7-60.3) 1: Writh (m/s)</th><th></th></t<>	ANCE OLERANCE C A T I O N R E S EM T IOI STANDARD MEASUR 40:0 (60.0) 139.7 (5) TEM V-111 STANDARD MEASUR (55) 698 (3)	ULTS- (BD ALLOWAS 9.8) 139.5-149.5 Uni Viti OWA	Unit: °F (°C). LE RANGE 5 (59.7-60.3) 1: Writh (m/s)	
ELATIVE HUMIDITY AROMETRIC PRESSURE 28,78 (974.6) IMHg (hPa) MAROMETRIC PRESSURE Massessesses ImHg (hPa) Immediate Colspan="2">Immediate Colspan="2" Immediate Colspan="2" I	ANCE OLERANCE C A T I O N R E S EM T 101 TTANDARD MEASUR 40:0 (60.0) 139.7 (5) TEM V-111 STANDARD MEASUR 0250 698 (3)	ULTS- (BD ALLOWAS 9.8) 139.5-149.5 Uni Viti OWA	Unit: °F (°C). LE RANGE 5 (59.7-60.3) 1: Writh (m/s)	
AROMETRIC PRESSURE 20.001 AROMETRIC PRESSURE 20.001 MAS LEFT OUT OF T AS FOUND - C A L I B R A T I O N V E R I F I TEMPERATURE VERIFICATION SYST # STANDARD MEASURED ALLOWABLE RANGE # STANDARD YELOCITY VERIFICATION SYST VELOCITY VERIFICATION SYST # STANDARD MEASURED ALLOWABLE RANGE # STANDARD YELOCITY VERIFICATION SYST # STANDARD MEASURED ALLOWABLE RANGE # SYST	OLERANCE C A T I O N R E S EM T IOI MEASUR STANDARD MEASUR 40:0 (60.0) 139.7 (5) TEM V-111 MEASUR STANDARD MEASUR OLIVIE 698 (3)	ALLOWAR 9.8) 139.5-140 Uni	EE RANGE 5 (59.7-60.3) 1: fi/min (m/s)	
Image: Constraint of the second system Image: Constraint of the second system Image: Constraint of the second system System TEMPERATURE VERIFICATION Temperature System System System # STANDARD MEASURED ALLOWABLE RANGE # Standard System 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 YELOCITY VERIFICATION System System System System System # STANDARD MEASURED ALLOWABLE RANGE # Standard 1 0 0(0.00) 0(0.00) -5-5 (-0.03-0.03) 7 1	CATION RES EMT-101	ALLOWAR 9.8) 139.5-140 Uni	EE RANGE 5 (59.7-60.3) 1: fi/min (m/s)	
TEMPERATURE VERIFICATION # STANDARD MEASURED ALLOWABLE RANGE # 5 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 VELOCITY VERIFICATION SYS SYS 1 1 # STANDARD MEASURED ALLOWABLE RANGE # 1 # STANDARD MEASURED ALLOWABLE RANGE 7 1 # STANDARD MEASURED -5-5 (-0.03-0.03) 7 1 1 0 (0.00) 0 (0.00) -5-3 (0.13-0.18) 8 1	STANDARD MEASUR 140:0 (60.0) 139.7 (5) TEMI V-111 Image: 100 (100 (100 (100 (100 (100 (100 (100	BD ALLOWAR 9.8) 139.5-140.5 Unitstand Unitstand	EE RANGE 5 (59.7-60.3) 1: fi/min (m/s)	
TEMPERATURE VENTIONE ALLOWABLE RANGE 1 # STANDARD MEASURED ALLOWABLE RANGE 1 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.3-0.3) 2 1 VELOCITY VERIFICATION SYST SYST SYST 1 # STANDARD MEASURED ALLOWABLE RANGE # 5 # STANDARD MEASURED ALLOWABLE RANGE 7 1 0.00.00 0.00.00 -5-5 (-0.03-0.03) 7 1	TANDARD 139.7 (5) 40:0 (60.0) 139.7 (5) TEMI V-111	9.8) 1 139.2 Uni	t: fi/min (m/s)	
# STANDARD MEASON 31.5-32.5 (-0.5-0.0) 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.5-0.0) I 1 32.0 (0.0) 32.1 (0.1) 31.5-32.5 (-0.5-0.0) I VELOCITY VERIFICATION SYS I SYS # STANDARD MEASURED ALLOWABLE RANGE # # STANDARD MEASURED -5-5 (-0.03-0.03) 7 - 0 (0.00) 0 (0.00) -25-35 (0.13-0.18) 8	TEM V-111 STANDARD MEASUR	ATTOWA	BLE RANGE	
VELOCITY VERIFICATION ALLOWABLE RANGE # # STANDARD MEASURED ALLOWABLE RANGE # # STANDARD MEASURED -55 (-0.03~0.03) 7	STANDARD	REU		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	600 (3 55)		(3.37-3.73) 3 (5.81-6.42)	
0(0.00) 0(0.00/ 25~35 (0.13~0.18)	120010	12) 1145 190	6 (9.18~10.14)	
	1901 (9.66) 1897 (3	.011	(13.06~14.43)	
2 30 (0.13) 61 (0.31) 55~65 (0.49~0.54) 10	2705 (13.74) 2720 (1 3804 (19.32) 3815 (1	19.38) 3614-399	4 (18.36-20.29)	
102 (0.51) 102 (0.52) 100 210 (0.96~1.07)				
	÷	not appli	icable to As Found	
4 101 (0.31) 198 (1.01) 190-210 (cm) 5 200 (1.01) 198 (1.01) 190-210 (cm) 6 397 (2.02) 399 (2.03) 377-417 (1.91-2.12) 6 397 (2.02) 399 (2.03) 377-417 (1.91-2.12) 7 6 397 (2.02) 399 (2.03) 377-417 (1.91-2.12) 7 6 397 (2.02) 399 (2.03) 377-417 (1.91-2.12) 6 397 (2.02) 399 (2.03) 377-417 (1.91-2.12) 6 397 (2.02) 399 (2.03) 377-417 (1.91-2.12) 7 and has been calibrated using standards whose accuracies are tracked to instrumentation were to instrumentation were tracked to instrumentation were tracked to instrumentation were tracked to instrumentation were to instrumentation were to instrumentation were tracked to instrumentation we	Measurement Variable Temperature DC Voltage Pressure Velocity	E004398 12-08 E004041 03-30 E004041 09-19	0-12 09-30-12	
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Non-Responsive		DATE		
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Lead	Wipe	Sample	Results
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Sample Number	Collection Date	Location	Result µg/ft ²
6160-01	7/11/2012	Drill floor S.W. area	<23
6160-02	7/11/2012	Drill floor N.W. area	<23
6160-03	7/11/2012	Drill floor S.E. area	<23
6160-04	7/11/2012	Drill floor N.E. area	<23
6160-05	7/11/2012	Drill floor Center area	<23
6160-06	7/11/2012	Kitchen, on top of food preparation surface	<23
6160-07	7/11/2012	Gun Vault, center	140
6160-08	7/11/2012	Supply room, top of counter	<23
6160-09	7/11/2012	Maintenance bay, center	27
6160-10	7/11/2012	SFC Arguello's desk top	<23
6160-11	7/11/2012	NBC Room, on top of desk	<23
6160-14	7/11/2012	Field Blank	<23

	Contraction and the	Paint Chip Sample Result	
Sample Number	Collection Date	Location	Lead Result mg/kg
6160-12	7/11/2012	Office adjacent to the Officer's Breifing Area (N. wall)	0.0025
6160-13	7/11/2012	Southwest classroom, south wall	0.0025



Report Date: July 24, 2012

Non-Responsive

IHI Environmental 640 East Wilmington Avenue Salt Lake City, UT 84106

Phone: (801) 466-2223 Fax: (801) 466-9616

Von-Responsive

Workorder: 34-1220110 Client Project ID: Clovis Armory Purchase Order: 12U-16160 Project Manager: Nonecesponsive

Anal	ytical	Resu	Its

Sample ID: 6160-1	Mec	lia: Lead Dust V	√ipe	Collected: 07/11/2012
Lab ID: 1220110001	Sampling Locati	on: Clovis Armo	ry	Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Are	a 100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6160-2	Mec	dia: Lead Dust V	Vipe	Collected: 07/11/2012
Lab ID: 1220110002	Sampling Locati	on: Clovis Armo	ry	Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	Prepared: 07/20/2012 Analyzed: 07/23/2012		
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6160-3	Med	dia: Lead Dust V	Vipe	Collected: 07/11/2012
Lab ID: 1220110003	Sampling Locati	ion: Clovis Armo	ry	Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Are	a 100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6160-4	Med	dia: Lead Dust V	Vipe	Collected: 07/11/2012
Lab ID: 1220110004	Sampling Locat	ion: Clovis Armo	iry	Received: 07/18/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Are	ea 100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

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Workorder: 34-1220110 Client Project ID: Clovis Armory Purchase Order: 12U-I6160 Project Manager:Non-Responsive

Analytical Results				
Sample ID: 6160-5	Med	dia: Lead Dust Wip	be	Collected: 07/11/2012
Lab ID: 1220110005	Sampling Locati	ion: Clovis Armory		Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Area	100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft² l	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6160-6	Mec	dia: Lead Dust Wip	06	Collected: 07/11/2012
Lab ID: 1220110006	 Sampling Locati 	ion: Clovis Armory		Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Area	100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft² l	RL (ug/sample)	
Lead	<2.5	<23	2.5	*
Sample ID: <u>6160-7</u>	Med	dia: Lead Dust Wip	De	Collected: 07/11/2012
Lab ID: 1220110007	Sampling Locati	ion: Clovis Armory		Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012	
Analyte	ug/sample	ug/ft² l	RL (ug/sample)	
Lead	16	140	2.5	
Sample ID: 6160-8	Med	dia: Lead Dust Wip	De	Collected: 07/11/2012
Lab ID: 1220110008	Sampling Locati	ion: Clovis Armory		Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Area	100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft² l	RL (ug/sample)	「「「「「「「「」」」」
Lead	<2.5	<23	2.5	
Sample ID: 6160-9	Med	dia: Lead Dust Wij	De .	Collected: 07/11/2012
Lab ID: 1220110009	Sampling Locat	ion: Clovis Armory		Received: 07/18/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Area	100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012
Analyte	ug/sample	ug/ft² l	RL (ug/sample)	
and the second se	2020.00	The second s	Responses.	

Lead

27

2.9

2.5



Workorder: 34-1220110 Client Project ID: Clovis Armory Purchase Order: 12U-I6160 Project Manager: Non-Responsive

Analytical Results

Sample ID: 6160-10	Med	dia: Lead Dust \	Vipe	Collected: 07/11/2012	
Lab ID: 1220110010	Sampling Locat	ion: Clovis Armo	pry	Received: 07/18/2012	
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Ar	ea 100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012	
Analyte	ug/sample	ug/ft ²	RL (ug/sample)		
Lead	<2.5	<23	2.5	1	
Sample ID: 6160-11	Me	dia: Lead Dust \	Vipe	Collected: 07/11/2012	
Lab ID: 1220110011	Sampling Locat	ion: Clovis Armo	ory	Received: 07/18/2012	
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Ar	ea 100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012	
Analyte	ug/sample	ug/ft²	RL (ug/sample)		
Lead	<2.5	<23	2.5	- anagen (
Sample ID: 6160-12	Me	dia: Paint Chip	**	Collected: 07/11/2012	
Lab ID: 1220110012	Sampling Locat	ory	Received: 07/18/2012		
Method: NIOSH 7300 Mod.	Samplin	Sampling Parameter: Welght 0.1003 grams			
Analyte	%	RL (%)			
Lead	<0.0025	0.0025			
Sample ID: 6160-13	Me	dia: Paint Chip		Collected: 07/11/2012	
Lab ID: 1220110013	Sampling Locat	ion: Clovis Arm	ory	Received: 07/18/2012	
Method: NIOSH 7300 Mod.	Samplin	g Parameter: We	eight 0.1006 grams	Prepared: 07/19/2012 Analyzed: 07/23/2012	
Analyte	%	RL (%)			
Lead	<0.0025	0.0025			
Sample ID: 6160-14 (FB)	Me	dia: Lead Dust	Wipe	Collected: 07/11/2012	
Lab ID: 1220110014	Sampling Locat	Sampling Location: Clovis Armory			
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Ar	ea 100 cm²	Prepared: 07/20/2012 Analyzed: 07/23/2012	
Analyte	ug/sample	ug/ft²	RL (ug/sample)		
Lead	<2.5	<23	2.5		

comments:

Quality Control: NIOSH 7300 Mod. - (HBN: 90291)

The 286112 matrix spike (1220163001MS) recovery was high outside of control limits at 142% for unknown reasons. Suspect non-homogeneity of sample to be the cause of the high recovery.



Workorder: 34-1220110 Client Project ID: Clovis Armory Purchase Order: 12U-I6160 Project Manager: Non-Responsive

Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Non-Responsive	Non-Responsive
NIOSH 7300 Mod.		

Laboratory Contact Information

ALS Environmental 960 W Levoy Drive Salt Lake City, Utah 84123 Phone: (801) 266-7700 Email: alslt.lab@ALSGlobal.com Web: www.alsslc.com

General Lab Comments

The results provided in this report relate only to the items tested. Samples were received in acceptable condition unless otherwise noted. Samples have not been blank corrected unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.eihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com



Workorder: 34-1220110 Client Project ID: Clovis Armory Purchase Order: 12U-16160 Project Manager: Non-Responsive

)efinitions

- LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity. LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
- ND = Not Detected, Testing result not detected above the LOD or LOQ.
- ** No result could be reported, see sample comments for details.
- < This testing result is less than the numerical value.
- () This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Southwest	ory Log
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Industrial	Violatic

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

Clovis Armory, Clovis, New Mexico

-	The second	11. S. 15. S			e		
REFERENCES	29 CFR 1926.62	1910.1001(j)(3)(i)	29 CFR 1910.1001 or 1101 or AR 40-5	Practice	1910.1200 (e) (1) (i)	1910.157 (d) (2) 1910.157 (e) (2)	1910.303(b)(1) & NFPA 70, Article 210-8
DATE CORRECTED							54
Estimated [Cost(s)							
ACTION OIC/NCOIC							
SUSPENSE DATE							
CORRECTIVE ACTIONS (Abatement Plan)	Construction personnel must follow the requirements of the OSHA Lead in Construction Standard, 29 CFR 1926.62, prior to performing construction activities that disturb this painted surface.	Either locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.	Based on the findings of an asbestos survey, provide awareness training to assigned personnel for the specific types of asbestos in this Armory.	Perform fungal sampling along the south wall of the southwest classroom by a professional proficient in conducting mold assessments.	Update inventory and MSDSs for the flammables to reflect the current contents of the flammable storage cabinet.	Conduct monthly and annual maintenance checks on all fire extinguishers	Install GFCI protection on any outlets within six feet of a water source.
RAC	e	e	4	4	4	4	4
SITE	Classroom	Clovis Armory	Clovis Armory	Classroom	Room Containing Flammable Storage Cabinet	Clovis Armary	Kitchen
HAZARD DESCRIPTION	The peeling paint contains 0.0025% lead by weight and is regulated by OSHA if paint is disturbed.	NMCA-071112-4.4 An asbestos survey could not be located during this IH Assistance Visit.	NMCA-071112-4.4 Personnel have not been provided with asbestos awareness training.	NMCA-071112-4.3 Dark staining was found on the gypsum wallboard behind the peeling paint along the south wall of the southwest classroom.	The inventory for flammable materials is inconsistent with the contents of the flammable storage cabinet.	Not all fire extinguishers have current monthly and annual mainteance checks	There was no ground fault oircuit interrupter (GFCI) outlet located within six feet of the
	NNC 401115- Closed NA Reading Room	NMCA-071112-4.4	NMCA-071112-4.4	NMCA-071112-4.3	NMCA-071112- 4.6.1	NMCA-071112- 4.10	NMCA-071112- 4.10

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Industrial Hygiene Southwest Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

Clovis Armory, Clovis, New Mexico

CONTROL				SUCIONE ACTIONS	SUEDENCE ACTION Estimated	ACTION	Estimated	00000	Care a solo total contration	
NUMBER	HAZARD DESCRIPTION	SITE	RAC	(Abstement Plan)	DATE	DATE DIC/NCOIC Cost(s)	Cost(s)	DATE	DATE CORRECTED	REFERENCES
CLOSED				· · · · · · · · · · · · · · · · · · ·						
NMCA-071112- 4.10		Clovis	e7.	Replace the cover plate on electrical panel box K in the						1910.303 (g) (2) (i) (B)
	was missing and wires are accessible.	Armony	,	cannot be contacted.						

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Summary of Recommendations for Clovis Armory

4.2 Painted Surface Evaluation

Recommendation

Construction personnel must follow the requirements of the OSHA Lead in Construction Standard, 29 CFR 1926.62, if they perform activities involving this painted surface that could create lead dust or fume.

4.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

Recommendation

Conduct a comprehensive moisture intrusion and fungal growth assessment. Ensure that all water leaks are repaired before any mitigation efforts are undertaken.

4.4 Asbestos Management

Recommendations

- Locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.
- Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.6.1 Hazardous Materials Inventory and Material Safety Data Sheets (MSDS)

Recommendation

Update the inventory and maintain MSDS's for the flammable materials maintained in the flammable storage cabinet.

4.10 General Safety Walk-Through

Recommendations

- 1. Ensure all fire extinguishers undergo an annual and monthly maintenance check.
- Replace the cover plate on electrical panel box K in the kitchen so electrical wires cannot be contacted.
- 3. Install GFCI protection on any outlets within six feet of a water source.

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ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Guam • Hawaii • California • Oregon • Washington • Nevada • Arizona • Idaho • Utah • Wyoming • Montana • New Mexico • Nebraska

Industrial Hygiene Site Assistance Visit

601 S. Norris Street Clovis, NM 88101

10510 Superfortress Avenue, Suite C, Mather, CA 95655

(916) 854-1494

Posted to NGB FOIA Reading Room May, 2018

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 466 of 1628 Industrial Hygiene Southwest's mission is to ensure all military personnel and military leadership is provided the specialized technical expertise, consultation and assistance to ensure all military operations and processes are conducted in a healthy manner

10510 Superfortress Avenue, Suite C, Mather, CA 95655

(916) 854-1494

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ARNG-CSG-P

14 NOV 2014

MEMORANDUM THRU LTC Monica Martinez-Archibeque, SOHM, 600 Wyoming Blvd, NE, Albuquerque, NM 87123

FOR Commander, Clovis Armory 601 S. Norris Street, Clovis, NM 88101

SUBJECT: Executive Summary for a Site Assistant Visit (IHSAV) for Clovis Armory 601 S. Norris Street, Clovis, NM on 15 OCT 2014.

1. References. See survey report.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an Industrial Hygiene Site Assistance Visit and cursory review of safety related items and programs was conducted at the Clovis Armory 601 S. Norris Street, Clovis, NM on 15 OCT 2014.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations within the attached Industrial Hygienist report. However, IHSW concurs with the observations and findings within the attached Industrial Hygiene report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. General Observations.

a. The armory does not have an Indoor Firing Range.

5. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. Check water damaged ceiling tile for additional water intrusion. Repair any areas where water

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SUBJECT: Executive Summary for a Site Assistant Visit (IHSAV) of Clovis Armory 601 S. Norris Street, Clovis, NM on 15 OCT 2014.

intrusion has occurred and remove water damaged materials, e.g. sheet rock, ceiling tile, etc. and replace with new materials. This will help prevent proliferation of mold spores/allergens. (para. 3.3) (RAC 4)

 Annual and monthly <u>fire extinguishers</u> inspections should be accomplished and recorded on inspection tag affixed to extinguisher(s). (para. 3.6) (RAC 3)

c. Update MSDSs to SDS format and add table of contents to help utilize index easier. (para. 3.5) (RAC 4)

6. Violation Correction Log.

 a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

(1) Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

(2) Corrective measures should be implemented and accomplished at the lowest levels possible. Hazards and Corrective Measures that cannot be corrected at the facility level, and require assistance from higher headquarters or from the state level, should be elevated to the Quarterly State/BN Safety Council Meeting for resolution.

(3) Recommend a representative from the facility attend all quarterly/monthly meetings to ensure the appropriate emphasis and corrective actions are followed for hazard resolution and abatement of the observations made during this visit.

(4) Retain entries of the items corrected, or closed, for future reference. This may be accomplished by posting completed items within the Corrected Hazard Sheet portion of the Excel Violation Correction Log Workbook we've provided.

(5) The preferred method to document and track identified hazards for resolution is for their entry into the Reserve Component Automation System – Safety and Occupational Health (RCAS-SOH) Program.

b. IHSW recommends further program refinement through written documentation for standardized guidance to the personnel performing the processes. Conducting Hazard Assessments consistent with 29 Code of Federal Regulations (CFR) 1910.132, General Requirements for Personal Protective Equipment and AR 40-5, Preventive Medicine, would provide this continued program refinement.

7. Hazard Assessment/Job Safety Analysis (JSA).

a. Documenting the Hazard Assessments provides a method to obtain initial and periodic review from the Industrial Hygiene, Occupational Health and Safety Professions located at the JFHQ/HQ/state level.

b. The Hazard Assessments should be used as written training materials for the new, transfer and unit personnel working under the auspice of the facility.

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SUBJECT: Executive Summary for a Site Assistant Visit (IHSAV) of Clovis Armory 601 S. Norris Street, Clovis, NM on 15 OCT 2014.

c. IHSW recommends facility supervisory staff and facility personnel conduct initial Hazard Assessments outlined in AR 40-5, Army Preventive Medicine (Section V) and 29 CFR 1910.132 and submit for review and obtain approval from the state Industrial Hygiene, Occupational Health and Safety Professions.

d. We have not provided an appendix with Hazard Assessments (HA) examples of some of this facilities operations. Additional operations can utilize this format to design HA not observed during this IHSAV.

e. An integral and important factor of the Hazard Assessment/JSA process is for the review and guidance from qualified Safety, Occupational Health and Industrial Hygiene professions located at the higher headquarters level or state level. For this reason, the Hazard Assessments (to include all pertinent and supporting documents) should be completed by the facility personnel and forward to the New Mexico Army National Guard Industrial Hygiene, Occupational Health and Safety Office for final review and approval (signature).

f. Job Safety Analysis (JSA's)/Hazard Assessments.

NOTE: The Hazard Assessments can be used for monthly meetings to brief/train, and document large group training events and activities.

8. IHSW recommends the <u>Senior Unit Commander of this Facility and any Co-Tenant Organizations or</u> <u>Units, review and provide assistance with implementation of these recommendations.</u> This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

9. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

10. For additional information please contact the NGB-IHSW office at (916) 854-1491 or via email at docbreath@aol.com .

RON W. FAULL NGB, IHSW, CIV Regional Industrial Hygiene Manager

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 470 of 1628 Industrial Hygiene Southwest Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS C

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CONTROL NUMBER CLOSED [Y]	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE DATE	ACTION	Estimated Cost(s)	DATE CORRECTED	REFERENCES
NMCA-10152014- 3.3	NMCA-10152014- There were ceiling tiles 3.3 damaged from water intrusion.	Armony	4	Check celling tile areas for water intrusion. Repair any areas where water intrusion has occurred and remove water damaged materials and replace					General Duty Clause 5 (a)(1)
NMCA-10152014- 3.4	NMCA-10152014- The ventilation system is not 3.4 able to handle the vehicles that the armory services.	Armory	4	If decided to start operations in maintenance bay, replace exhaust ventilation system.					Per memorandum from Army National Guard IHN received on November 13, 2013 on minimum vehicle exhaust
NMCA-10152014- 3.5	NMCA-10152014- The SDS file is still listed as 3.5 MSDS since the Globally Harmonized System (GHS) Classification of Labeling Chemicals has just taken effect this year and the documents are still MSDS documents.	Armory	ч	Update all MSDS for the facility with the new SDS format by June 2016					29 CFR 1910.1200(g)(8)
NMCA-10152014- 3.6	NMCA-10152014- Fire extinguishers, throughout 3.6 the facility, were not being inspected monthly.	Armory	0	Annual and monthly inspection of fire extinguishers should be accomplished and recorded on fire extinguisher.				a.2	29 CFR 1910.157(b)(1)]

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Posted to NGB FOIA Reading Room May, 2018

ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> but check with local Environmental Office.
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> <u>requirements may be reduced after it has been determined non-hazardous</u> levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not</u> be permitted

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - B. Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only -after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

 Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

 Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - a. Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (*Cleaned 2x's Monthly*)
 - c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and is not a Converted IFR space, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.

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NEW MEXICO ARMY NATIONAL GUARD

CLOVIS ARMORY

601 S Norris St. Clovis, NM 88101 (505) 474 2236



Submitted to:

Mr. Ron Faull, IH National Guard Bureau Southwest Region Industrial Hygiene Office 10510 Superfortress Avenue Suite C Mather, CA 95655

BEST AVAILABLE COPY Industrial Hygiene Survey Clovis Armory

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INDUSTRIAL HYGIENE ASSISTANCE VISIT CLOVIS ARMORY CLOVIS, NEW MEXICO



1.0. Introduction and Background

1.1. This report summarizes the results of the Industrial Hygiene (IH) Survey conducted at the Clovis Armory in Clovis, NM on October 15, 2014. The Army National Guard of Industrial Hygiene Southwest Regional Manager (ARNG-IHSW) requested Aloha World to visit the Clovis Armory to evaluate ventilation, lighting, noise, and verify vehicle and hazardous materials inventories. The IH Survey also included an interview with SFC Ben Arguello regarding industrial hygiene, OSHA training compliance, personnel Federal Employees Compensation Act (FECA) claims, as well as safety standards in the work area. Finally, the IH Assessment included the development of employee profiles as baseline administrative occupational health records for employees. Jennifer Bolton, from Aloha World completed this survey.

1.2. The following sections will provide details on how the IH Survey was conducted. A drawing showing the facility layout and sampling locations is included as <u>Attachment E</u>. The most stringent OSHA, ARNG, Corps of Engineers (COE), American National Standards Institute (ANSI), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and Design Guide standards in effect at the time of the survey were used to assess the workplace.

1.3. The Clovis Armory supports the Alpha Co 717th BSB. The Armory has 2 full time guard members (**Appendix F**) and approximately 45 guardsmen and women on drill weekend. This armory was constructed in 1991. The armory has offices used for administrative purposes and also contains a drill floor, arms room, supply room, classroom, weight room and a maintenance bay.

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There is not a Converted Indoor Firing Range (CIFR) in this facility. The maintenance bay has not been used for over 10 years. FMS 1A is located adjacent to the Clovis Armory. All vehicle maintenance is done there.

2.0. Survey Procedures

2.1. Lead wipe samples were collected on dusty horizontal floor surfaces in the facility including but not limited to the drill floor, maintenance shop and the kitchen. "Ghost Wipe" brand wipes was used with a 16 square inch template. The wipes used conform to American Standards for Testing Materials E1792-96A, *Standard Specification for Wipe Sampling Materials for Lead in Surface Dust*. The collected wipe samples were placed in clean, labeled centrifuge tubes. Samples were submitted to Reservoir Environmental Services, Inc for analysis via Flame Atomic Absorption, USEPA Method SW846 3050B. Laboratory results are listed in <u>micrograms of lead</u> per square foot (μ g/ft2). Copies of the raw analytical data are presented in **Appendix E**.

A visual inspection of materials utilized in this 1991 constructed building was performed. All accessible areas of the facility were visually inspected to identify suspect asbestos-containing materials (ACM).

Illumination measurements were taken in several areas of the armory using a Konica Minolta Light Meter, Model TL1. Measurements in the office and classroom areas were taken at typical work locations, such as the tops of desks and near computer workstations.

Air ventilation was measured on the industrial kitchen hood.

Equipment Used

Type	Model Number	Serial Number	Calibration Date	
VelociCalc	8386A	54110581	March, 2014	
Type	Model Number	Serial Number	Calibration Date	
Konica Mino	lta TL1	00279029	September 2014	

3.0. Findings and Recommendations

Lead wipe sampling- Analytical results from the lead wipe sampling obtained from the armory are found in Table 3.1.A. A graphical and written representation of sampling locations can be found in <u>Appendix E</u> along with analytical reports. Photographs were taken of each sample point and are presented in <u>Appendix C</u>. There are currently no standards that dictate what a safe level of lead is from a wipe sample. Lead sampling results can be compared to the protocol outlined in the U.S. Department of Housing and Urban Development's (HUD's) *Guidelines For The Evaluation And Control Of Lead-Based Paint Hazards In Housing*, June 1997. HUD

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currently recommends an exposure limit of 40 ug/ft². This guideline was established to prevent lead exposure to children in domestic homes, along with females who are pregnant. Areas that have levels that exceed 40 ug/ft² should be thoroughly cleaned and employees that may come into contact with those areas should be properly trained in the hazards of lead exposure.

Lead Wipe Table 3.1.A.

Sample ID	AREA	Photo #	Result ug/ft2
101514-1	Control	NA	BDL
101514-2	North drill hall	2	BDL
101514-3	Center drill hall	3	BDL
101514-4	South drill hall	4	BDL
101514-5	West drill hall	5	22.7
101514-6	East drill hall	6	BDL
101514-7	North maintenance shop	7	26.4
101514-8	South maintenance shop	8	35.5
101514-9	Kitchen	9	BDL

BDL= Below Detection Limits

ug/ ft2= Micrograms per Square Foot

NOTE: Please continue the cleaning of working environment throughout the armory, especially in weapons cleaning areas. Please utilize the attached SOP and general information paper provided for cleaning procedures.

3.2. Asbestos Survey- SFC Arguello was asked during this survey about the presence of asbestos and he advised no asbestos has ever been found or suspected in the armory.

Asbestos is regulated as a hazardous air pollutant by the Environmental Protection Agency (EPA) under the authority of the Clean Air Act. The asbestos regulations are included in the National Emissions Standards for Hazardous Air Pollutants (NESHAPS) and are referenced as 40 CFR 61, Subpart M.

ACM is defined by the EPA, as any material containing greater than one percent of asbestos. ACMs are categorized as being either friable or non-friable. Friable ACMs are those materials that can be easily crumbled, pulverized, or otherwise broken up using hand or finger pressure when dry, and are materials considered more likely to produce airborne asbestos fibers. Nonfriable ACMs are materials that do not meet the above test, and are considered less likely to produce airborne asbestos fibers. Non-friable ACMs are further categorized into Category I nonfriable ACM (packing's, gaskets, resilient floor coverings, and asphalt roofing products) and Category II non-friable ACM (materials not included in Category I).

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3.8. **Illumination Survey-** Illumination levels that were measured throughout the armory office and classroom areas can be found on the floor plan in <u>Appendix D</u>. The numbers represent the illumination level in foot-candles (FC). In general, the measurements were taken at task surface level, such as on desks. Measurements not taken on a desk were taken at waist level.

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991. In general, IES recommends a range of <u>50 to 100 foot-candles</u> as the minimum lighting requirements for performance of visual tasks of medium contrast or small size, such as would typically occur in an office area.

Based on these criteria, the general lighting appears to be adequate in the office spaces and classrooms. Inadequate light levels may place strain on the eyes and cause headaches or vision problems. With an aging work force in place, task lighting can help reduce the vision problems associated with inadequate lighting. Adequate lighting was found in the classroom and in the office spaces.

3.9. Safety Policies, Training, and Record Keeping – The following safety policies and procedures were found at this site: none found

4.0 Industrial Hygienist Certification and Project Limitations

All Industrial Hygiene Assessment techniques and tests used in the Industrial Hygiene survey of the Army National Guard Armories were reviewed by Ron Faull, Industrial Hygiene Southwest, National Guard Bureau at (916) 854-1492.

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, Aloha World's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. Aloha World assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of Aloha World, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since Aloha World is not in a position to fully understand all of the client's needs.

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Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

5.0 Technical Assistance

For technical assistance regarding information found in this report or the performed survey, please contact Mr. Ron Faull of the Southwest Regional Industrial Hygiene Office-(916) 854 1492. Contact the State Safety, State Industrial Hygiene and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations that are needed.

Jennifer Bolton, IH Tech Aloha World Environmental

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Appendix A: References

American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23 Edition, 1998.

American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices for 1998.

American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting 1991.

American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment 1998.

AR 40-5, Preventative Medicine, 15 October 1990.

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

Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems, May 1984.

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation, 27 August 1991.

National Safety Council, Fundamentals of Industrial Hygiene, 4~ edition, 1996.

NOR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

TB MED 503, The Army Industrial Hygiene Program, February 1985.

TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1910, Occupational Safety and Health Standards

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1926, Construction Standards

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Appendix B: Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in the ACGIH Industrial Ventilation Manual and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling, if conducted, was in compliance with applicable NIOSH Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL).

E. Risk Assessment Codes

Risk Assessment Codes (RACs) are included in this report to quantify the risk of particular operations to employees and to establish funding priorities for corrective actions. RACs are assigned with regard to hazard severity and mishap probability. The type, length, and route of exposure are taken into consideration, as are the medical effects that would occur with such exposures.

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Appendix C

Photograph Log

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Photo Log

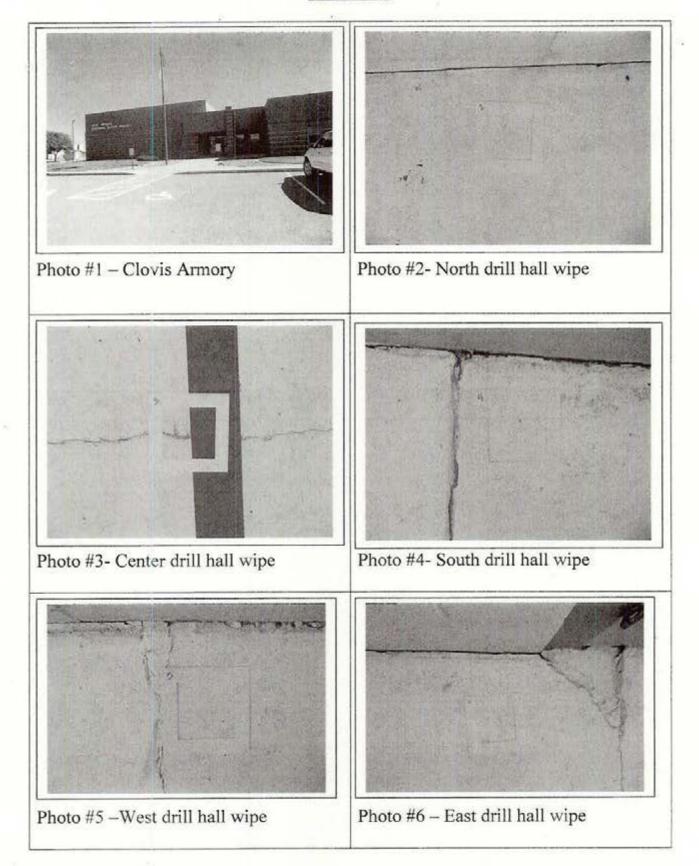
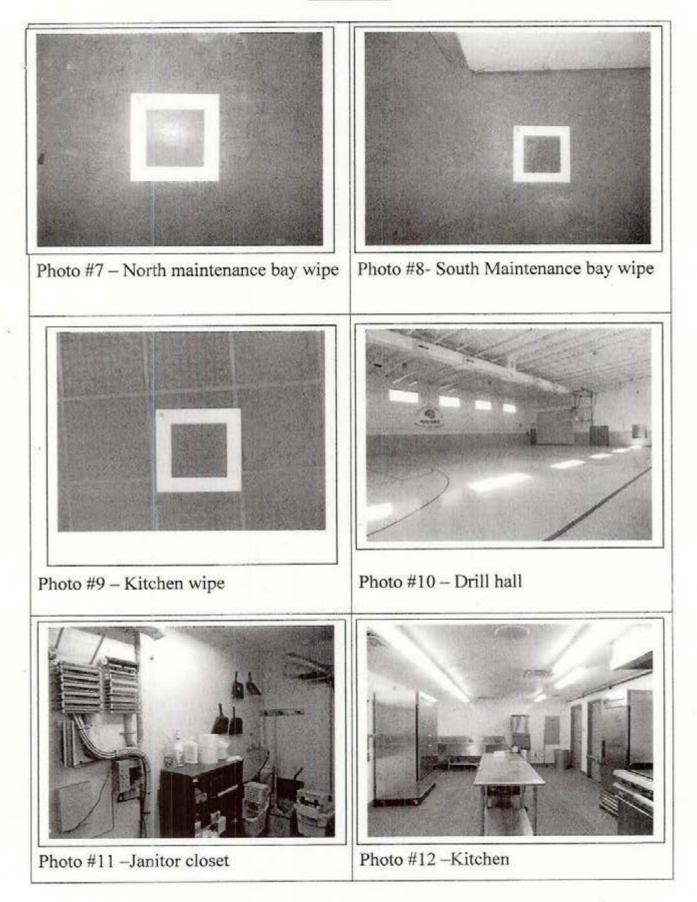


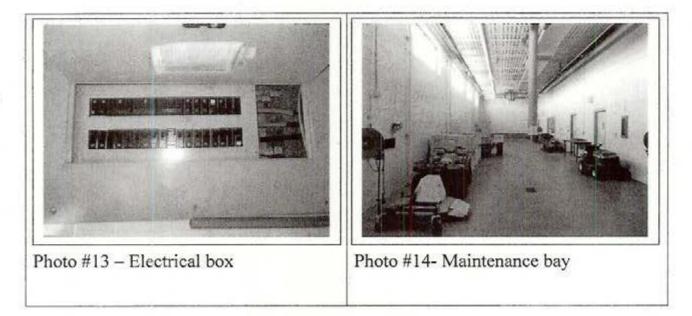
Photo Log



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Photo Log



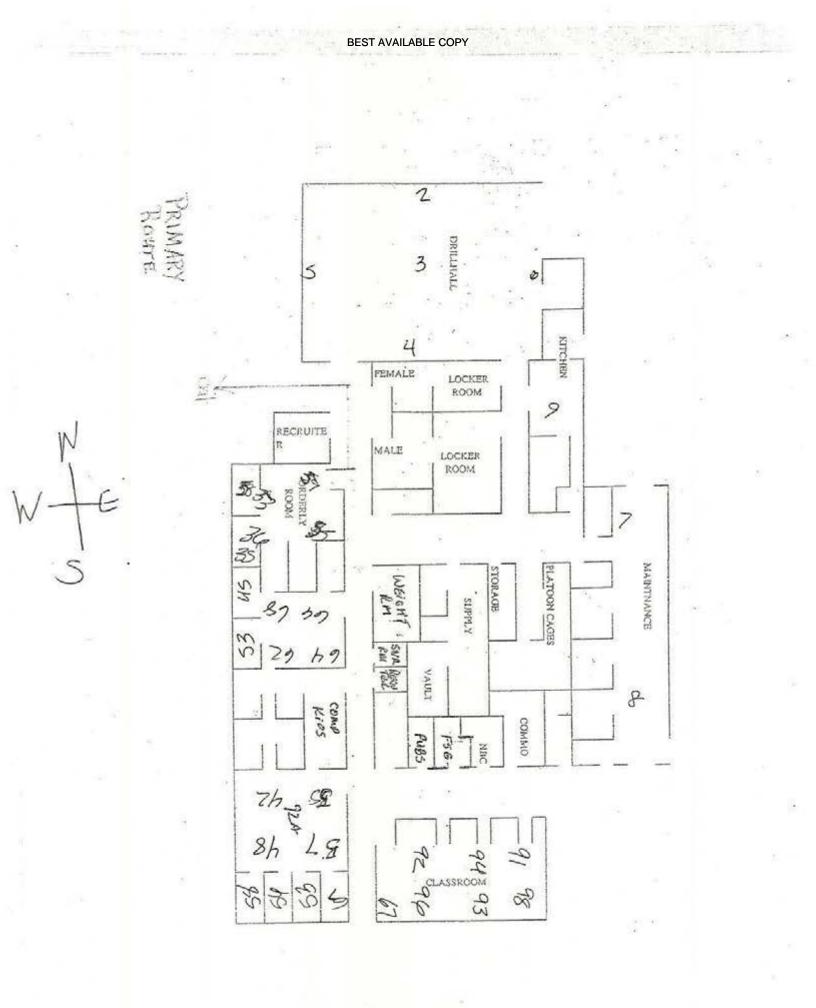
Appendix D

Floor Plan/Illumination Survey

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Appendix E

Laboratory Analysis Reports Sample Location & Log

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RESERVOIRS ENVIRONMENTAL, INC. 5801 Logan St., Suite 100

Denver CO 80216

TABLE

LEAD BY WIPE SAMPLING

RES 303549-1
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101514
Clovis Armory
October 21, 2014
USEPA SW846 3050B / AA (7420)
3-5 Day
October 24, 2014

ANALYSIS:

Client ID Number	Lab ID Numb	Sample er Area (sq.ft.)	LEAD (µg)	Reporting Limit (µg/ft ²)	LEAD CONCENTRATION (µg/ft ²)
101514-1	EM 1280	0857 0.11	BRL	22.7	BRL
101514-2	EM 1280	0858 0.11	BRL	22.7	BRL
101514-3	EM 1280	0.11	BRL	22.7	BRL
101514-4	EM 1280	0860 0.11	BRL	22.7	BRL
101514-5	EM 1280	0.11	2.5	22.7	22.7
101514-6	EM 1280	0862 0.11	BRL	22.7	BRL
101514-7	EM 1280	0863 0.11	2.9	22.7	26.4
101514-8	EM 1280	0864 0.11	3.9	22.7	35.5
101514-9	EM 1280	0865 0.11	BRL	22.7	BRL

*Calculations Based On A 1 sq.ft. Sample Area Unless Otherwise Noted

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.

Digitally signed by Richola Man DN ON - Nichola Man, C. US, O Reservant Execution Execution 12:00.21 0000

Data QA

1-866-RESI-ENV www.reilab.com

BRL = Below Reporting Limit

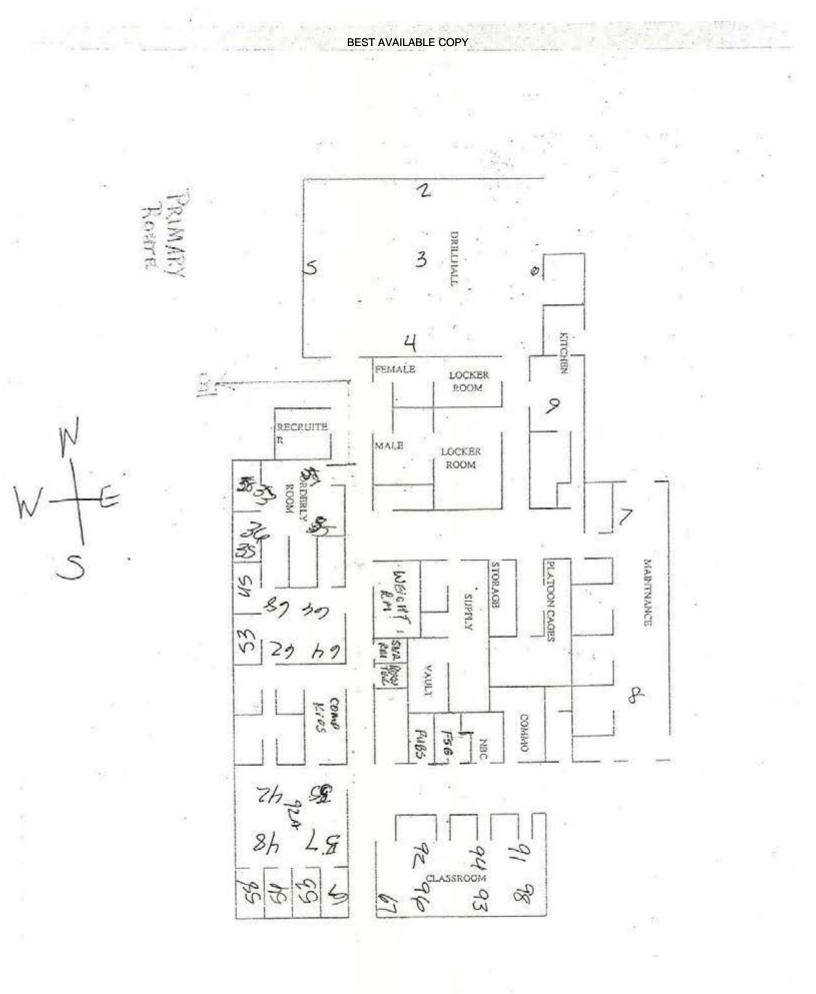
P: 303-964-1986 F: 303-477-4275

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5801 Logan Street. Suite 100 Denver, CO 80216

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Appendix F

Full-Time Personnel Listing

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FULL TIME ROSTER FOR CLOVIS, NM ARMORY

SFC Ben Arguello

SSG Manuel Najere

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Appendix G

ARNG Survey Checklist

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Army National Guard <u>Armory</u> Survey (To Be Included In Report)

Five lead wipe samples collected from drill floor (take samples from dusty horizontal floor surfaces) Are any weapons cleaned in the facility, if yes where are they cleaned? yea, Additional lead wipe samples taken from 25% of the rest of the building - - (on floor .# areas only) Is there a converted indoor firing range? If so collect additional wipe samples IAW none the SOW. Is there any peeling paint? Take bulk none sample if able. Are there any signs of water damage or 10% mold? none Any suspected ACM? Where and what none condition is it in. Bulk sample if able. **Ouality** of housekeeping State -replaced lyrage HVAC maintenance plan in place? great Overall condition of HVAC system Obtained CO2, Temp, RH monitoring FMS #1A HAZMAT inventory on hand (make copies for the report), MSDS available for - needs boad all materials. HAZMAT storage, Condition of lockers, CMS1A if outside storage building is used is it ventilated and does it meet OSHA standards.

6.1

Fire alarm in working conditionnot asually in place in older armories	good - replaced 3 yrsage
Fire extinguishers in place and properly identified and mounted	Yes
Evidence of monthly fire extinguisher inspections	NO
Annual fire extinguisher inspections tags current	Yes
Are eye wash stations available in areas where hazardous materials are used and are they inspected weekly (inspections must be documented)	none
Egress routes accessible and properly markednoted on Fire Evacuation Plan	Y-25
Training programs in place; Hazcom, Respiratory Protection, Confined Spaces, Hearing conservation, PPE (if applicable)	none
Any Photo labs	ND -
Any hazardous noise sources	no
Light levels checked throughout building	V
Breaker panels properly labeled with no exposed wiring	
Check building occupancy 1. How many military personnel, how many civilian personnel 2. What types of units occupy facility, i.e. Administrative, Maintenance, etc.?	
Any civilian activities in armory (cub scouts, classes, day care, parties etc)	rented out
Obtain two lead air samples	On IHSW Request Only

11

Evaluate Kitchen Stove Hood Flow if	105
Present IAW NFPA Standard 96.	yes .
Collect Source Noise Measurements of Kitchen Appliances and Document Using DD 2214	inla
Conduct a safety walkthrough of entire facility document any safety deficiencies found.	V
Take photos of outside of building, all sample points and any pertinent hazards or concerns.	
Name of Armory, POC, phone #, address and organizations in Armory	*
(Add Checklist to Report)	(Add Checklist to Report)

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			HAZCOM AWARENESS	and the second second	
		MOI	NTHLY INVENTORY January 201	4	
BINDER TAB	ROOM	SHELF	ITEM	QTY	
A	35	1A	COCONUT OIL HAND SOAP	2 GALLONS	
S. Samera	35	1A	WHITE COCONUT LIQUID SOAP	3 GALLONS	
	35	1A	GOJO	9 GALLONS	1
В	35	1B	GOJO PINK & KLEAN	9 BOXES	
	35	1B	HEALTH GARDS	83 BARS	
	35	1B	SW PARA TOILET BOWL BLOCK	63 BLOCKS	
	35	1B	RING MASTER	5 QUARTS	Street States
с	35	1C	GOJO ORANGE	1 GALLON	()
	35	10	SOFT SCRUB W/ BLEACH	15 BOTTLES	
	35	1C'	SW URINAL SCREEN	26 SCREENS	
	35	10	TOUGH GUY URINAL SCREEN	96 SCREENS	
	35	10	SKILCRAFT METER MIST	2 CANS	
	35	1C	RONSONOL LIGHTER FLUID	1 BOTTLE	(
D	35	ZA	PAMOLIVE	1 BOTTLE	
	35	2A	DAWN	1 BOTTLE	
	35	2A	SUPER SPRAY-LOK	3 GALLONS	
	35	ZA	SW PINK PEARL	1 GALLON	2
	35	2A	CARROLL- 700 SPECIAL	2 GALLONS	
	35	2A	SPARY BUFF	7 GALLONS	
	35	2A	BETCO RESTORER	4 GALLONS	
E	35	28	QUARTERBACK	11 GALLONS	S
-	35	2B	FULLBACK	11 GALLONS	
F	35	2C	BALL TERRA-COTE	4 GALLONS	
1	35	20	BALL URETHANE FLOOR FINISH	2 BOXES	
	35	20	DIVERSEY SNAPBACK	8 GALLONS	
G	35	2D	BRAVO STRIPPER	2 BUCKETS	
0	35	2D	CAREFREE FLOOR FINISH	1 BUCKET	Con para anno
Н	35	3A	SKILCRAFT POWER DUSTER	5 CANS	
n	35	3A	SKILCRAFT WINDOW CLEANER	19 CANS	
	35	3A	SCOURING POWDER W/ BLEACH	72 CANS	
1	35	38	RAMROD	7 LITERS	
·	35	3B.	MULTI-SURFACE CLEANER	10 LITERS	
	35	3B	LEMON FURNITURE POLISH	3 LITERS	The second s
1	35	3B	READY TO USE SPRAY BUFF	5 LITERS	
	35	3B ·	LEMON OIL FURNITURE POLISH	1	
	35	3B	DOUBLE PLAY	2 GALLONS	
	35	3B	SIMPLE GREEN HAND CLEANER GEL	10 BOTTLES	2 GALLONS
	35	3B	CARE-ALL HAND SOAP	1 GALLON	1
the second second	35	3B	LITE' N FOAMY	4 GALLONS	
	35	3B	LAUNDRY DETERGENT	9 BOXES	
3	35	30	ULTRA HI MAINTAINER	2 GALLONS	
1	35	3C	METAL ALUMINUM POLLISH	2 GALLONS	

Appendix I

Recommendations

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RECOMMENDATIONS

1. Check ceiling for water leakage. OSHA requires that safeguards designed to protect employees during an emergency, including displaced ceiling tile, must be in proper working order at all times. General Duty Clause 5(a)(1)

2. Per memorandum from Army National Guard received on November 13, 2013 a minimum duct velocity of 850 was not obtained. If decided to start operations in maintenance bay, replace exhaust ventilation system.

3. Update all MSDS for the facility with the new SDS format by June 2016 CFR 1910.1200(g)(8).

4. The Fire extinguishers were found to be behind on monthly inspections. The fire suppression system is behind on annual inspection. Properly inspect all fire extinguishers on an annual and monthly basis. [29 CFR 1910.157(b)(1)].

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Appendix J

Violation Inventory Log

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	REFERENCES	General Duty Clause 5 (a)(1)	Per memorandum from Army National Guard IHN received on November 13, 2013 on minimum vehicle exhaust	29 CFR 1910.1200(g)(8)	29 CFR 1910.157(b)(1)].
	DATE CORRECTED			34	
	Estimated Cost(s)	1.4	*		
01	ACTION OIC/NCOIC				24
EXICO 881	SUSPENSE				
CLOVIS ARMORY, NEW MEXICO 88101	CORRECTIVE ACTIONS (Abatement Plan)	Check celling tile areas for water intrusion. Repair any areas where water intrusion has occurred and remove water damaged materials and replace	If decided to start operations in maintenance bay, replace exhaust ventilation system.	Update all MSDS for the facility with the new SDS format by June 2016	Annual and monthly inspection of fire extinguishers should be accomplished and recorded on fire extinguisher.
CLO	RAC	4	4	4	3
	SITE	Armary	Armory	Armory	Armony
	HAZARD DESCRIPTION	NMCA-10162014- There were ceiling tiles 3.3 damaged from water intrusion.	NMCA-10152014- The ventilation system is not 3.4 able to handle the vehicles that the armory services.	The SDS file is still listed as MSDS since the Globally Harmonized System (GHS) Classification of Labeling Chemicals has just taken effect this year and the documents are still MSDS documents.	NMCA-10152014- Fire extinguishers, throughout 3.6 the facility, were not being inspected monthly.
	CONTROL NUMBER CLOSED X	NMCA-10152014- 7	NMCA-10152014- 7	NMCA-10152014-	NMCA-10152014- 8

Industrial Hygiene Southwest

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Reference DA FORM 4754 VER: 15 OCT 2009

Limitations and Exclusions of Findings

This asbestos survey and assessment was performed using procedures and a level of diligence typically exercised by professional performing similar services. However, asbestos-containing material (ACM) can be present in a structure, but not identified using ordinary investigative procedures.

No asbestos survey can completely eliminate uncertainty regarding the presence of ACM. The level of diligence and investigative procedures are intended to reduce, but not eliminate, potential uncertainty regarding the presence of ACM.

The only way to tell if an object contains asbestos by looking at it is if the material is labeled. Otherwise, you should have it sampled and analyzed by a qualified professional. Until you receive the results, treat the material as if it contains asbestos. Samples should be extracted only by qualified professionals. If improperly done, extracting samples can be more hazardous than leaving the material undisturbed.

3.3. Indoor air quality and HVAC Systems- The armory is heated and cooled through a central air system that was replaced in 2013. The Department of Military Affairs (DMA) maintains the HVAC system.

Building air temperature, within this facility, was in the comfort range for the occupants during this survey period. The day of the survey it was 80 degrees Fahrenheit outside. Inside air temperature is recommended to be between 68-75 degrees Fahrenheit and the relative humidity is to range from 30-60%. The indoor temperature was 70-72 degrees Fahrenheit. Humidity levels above 60 percent can result in proliferation of bacteria and fungi, while levels below 30 percent can cause dry eyes, skin, and mucous membranes. There were signs of water leakage. Water stains were noted on the ceiling tiles in the entrance hall and orderly room.

Recommendation: Check ceiling for water leakage. Repair all leaks and replace water damaged materials, e.g., ceiling tile, sheet rock, etc.

3.4. Exhaust and Ventilation Systems- The Clovis Armory has a maintenance bay. However, all vehicle maintenance is done in FMS 1A, located next door.

The exhaust ducts reportedly reach all exhaust ports on all the equipment serviced in this armory as required by AR 385-55, Section 2-14(b).

The following table lists volumetric flow rates measured in each duct (all ducts open for survey).

Location	CFM
TP-01	273
TP-02	Unable to pull down

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Recommendation Per memorandum from Army National Guard received on November 13, 2013 a minimum duct velocity of 850fpm was not obtained. Replace exhaust ducts if maintenance bay becomes functional.

Air flow was measured in the industrial kitchen under the hood of the oven. Air flow was measured at 680 fpm. This kitchen exhaust duct meets the 2011 National Fire Protection Association Standard 96, Section 8.2.1.1, which requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 fpm.

3.5. Hazardous Materials Use and Storage- All Hazmat and POL's are stored and maintained at FMS 1A located next door to the armory.

Small quantities of cleaning products, utilized by the workers, were located in the janitors' closet. Arms custodians, for cleaning purposes, should be utilizing user and environmental friendly products, while the more harmful products should be properly disposed of. A well-ventilated area should be utilized when using any solvent products, along with the appropriate Personal Protective Equipment (PPE) as designated on the MSDS information sheets. The MSDS was updated and well organized but not yet at the current SDS.

Recommendation: Update all MSDS for the facility with the new SDS format by June 2016 CFR 1910.120.

3.6. Physical Safety and Condition of Facility- A physical walk through of the facility was conducted. Overall, housekeeping was found to be in above average condition. Electrical breaker boxes were properly labeled and accessible. The electrical breaker box in the kitchen had loose wires and is shown in Appendix C.

This 1991 building is of concrete block and brick construction with a concrete roof over the drill hall, tar and rock composite on remaining roof area.

The fire extinguishers within this facility are part of the fire suppression available and should be tested annually and inspected monthly. NFPA 10, 27-3.4.1 addresses alarm systems and 29 CFR 1910.157 addresses inspection requirements for fire extinguishers. Annual inspections should be accomplished by a qualified organization, e.g., fire department, and checked and documented monthly by the facilities personnel. The fire extinguishers were found to be up to date on annual inspections but behind on monthly inspections. Annual inspection for the kitchen fire extinguisher is behind. Per SFC Arguello the kitchen has not been used for over 1 year and will not be used until the fire suppression system in the kitchen is inspected.

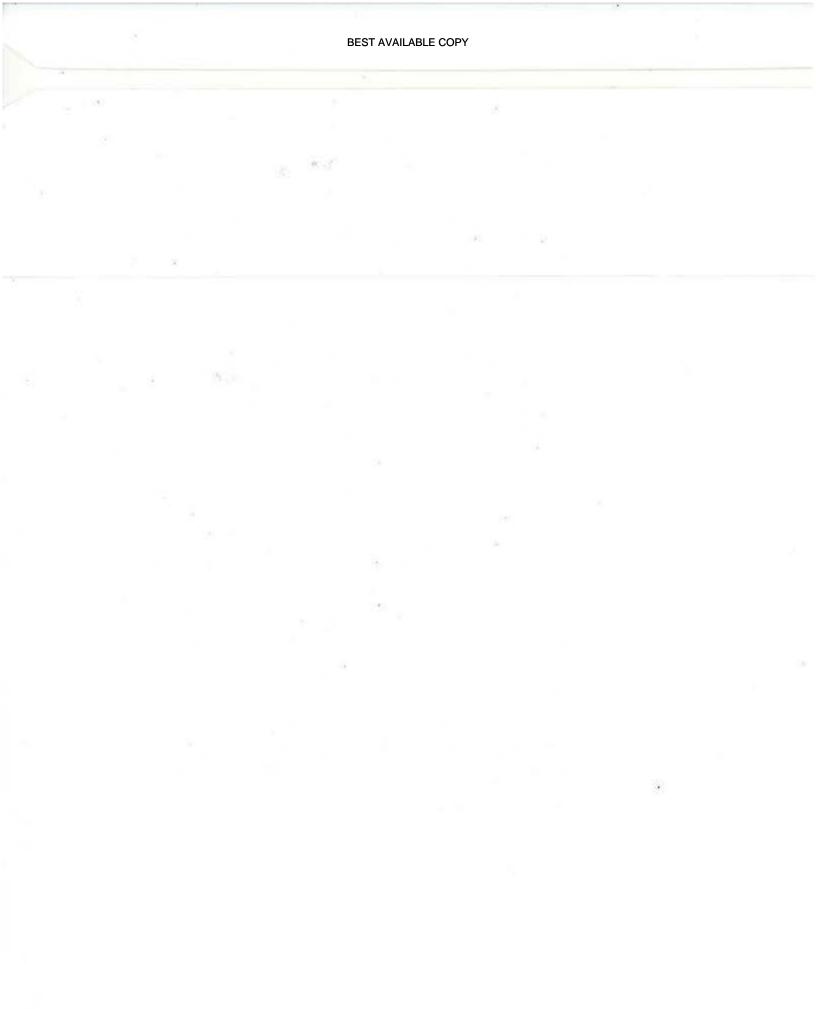
Recommendation: The Fire extinguishers were found to be behind on monthly inspections and the kitchen suppression system is behind on its annual inspection. Properly inspect all fire extinguishers on an annual and monthly basis. [29 CFR 1910.157(b)(1)].

3.7. Sound Level Survey- A noise survey was not conducted in the Clovis Armory. No noise hazards were noted in the facility.

Aloha World

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Guam • Hawaii • California • Oregon • Washington • Nevada • Arizona • Idaho • Utah • Wyorning • Montana • New Mexico • Nebraska

Industrial Hygiene Site Assistance Visit

Deming Armory 700 S. Pearl St. Deming, NM 88030

10510 Superfortess Avenue, Suite C, Mather, CA 95655

(916) 8545-1491

Posted to NGB FOIA Reading Room May, 2018

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BEST AVAILABLE COPY DEPARTMENT OF THE ARMY AND AIRFORCE NATIONAL GUARD BUREAU INDUSTRIAL HYGIENE SOUTHWEST 10510 Superfortress Ave, Ste. C Mather, CA 95655

ARNG-CSG-IHSW

5 December 2012

MEMORANDUM THRU New Mexico Army National Guard, Deputy State Surgeon (DSS), 600 Wyoming Blvd NE, Albuquerque, NM 87123

FOR Commander, Deming Armory 700 S. Pearl Street, Deming, New Mexico 88030

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Deming Armory, 700 S. Pearl St. Deming, New Mexico conducted on 08 August 2012.

1. References. See survey report.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an Industrial Hygiene Site Assistance Visit and cursory review of safety related items and programs was conducted at the Deming Armory 700 S. Pearl St., Deming, NM on 08 AUG 2012.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations in the contractor report (reference Attachment II). However, IHSW concurs with the observations and findings within the attached contractor report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. Commendable.

a. The facility personnel were helpful during this SAV.

5. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. Ensure water intrusion is identified and leaks are repaired in the female sleeping quarters and damaged materials replaced. (para. 4.3) (RAC 4)

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SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Deming Armory, 700 S. Pearl St. Deming, New Mexico conducted on 08 August 2012.

b. Locate the asbestos survey for this building or contract to have a licensed firm to perform an asbestos survey and assessment. This should be part of the NM ARNG Asbestos Management Plan with awareness training being provided to facility personnel and workers. (para. 4.4) (RAC 3)

c. Improve housekeeping practices and clean up armory using the Clean-up SOP include within this report, to prevent migration and accumulation of lead dust. Also, Clean-up after each episode of weapons cleaning. (para. 4.1) (RAC 3)

6. Violation Correction Log.

a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

 Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

2. Corrective measures should be implemented and accomplished at the lowest levels possible. Hazards and Corrective Measures that cannot be corrected at the facility level, and require assistance from higher headquarters or from the state level, should be elevated to the Quarterly State/BN Safety Council Meeting for resolution.

 Recommend a representative from the facility attend all quarterly/monthly meetings to ensure the appropriate emphasis and corrective actions are followed for hazard resolution and abatement of the observations made during this visit.

 Retain entries of the items corrected, or closed, for future reference. This may be accomplished by posting completed items within the Corrected Hazard Sheet portion of the Excel Violation Correction Log Workbook we've provided.

 The preferred method to document and track identified hazards for resolution is for their entry into the Reserve Component Automation System – Safety and Occupational Health (RCAS-SOH) Program.

 b. IHSW recommends further program refinement through written documentation for standardized guidance to the personnel performing the processes. Conducting Hazard Assessments consistent with 29 Code of Federal Regulations (CFR) 1910.132, General Requirements for Personal Protective Equipment and AR 40-5, Preventive Medicine, would provide this continued program refinement.

7. Hazard Assessment/Job Safety Analysis (JSA).

a. Documenting the Hazard Assessments provides a method to obtain initial and periodic review from the Industrial Hygiene, Occupational Health and Safety Professions located at the JFHQ/HQ/state level.

b. The Hazard Assessments should be used as written training materials for the new, transfer and unit personnel working under the auspice of the facility.

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SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Deming Armory, 700 S. Pearl St. Deming, New Mexico conducted on 08 August 2012.

c. IHSW recommends facility supervisory staff and facility personnel conduct initial Hazard Assessments outlined in AR 40-5, Army Preventive Medicine (Section V) and 29 CFR 1910.132 and submit for review and obtain approval from the state Industrial Hygiene, Occupational Health and Safety Professions.

d. We have provided an appendix with Hazard Assessments (HA) examples of some of this facilities operations. Additional operations can utilize this format to design HA not observed during this SAV.

e. An integral and important factor of the Hazard Assessment/JSA process is for the review and guidance from qualified Safety, Occupational Health and Industrial Hygiene professions located at the higher headquarters level or state level. For this reason, the Hazard Assessments (to include all pertinent and supporting documents) should be completed by the facility personnel and forward to the New Mexico Army National Guard Industrial Hygiene, Occupational Health and Safety Office for final review and approval (signature).

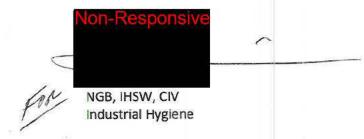
f. Job Safety Analysis (JSA's)/Hazard Assessments.

NOTE: The Hazard Assessments can be used for monthly meetings to brief/train, and document large group training events and activities.

8. IHSW recommends the Senior Unit Commander of this Facility and any Co-Tenant Organizations or Units, review and provide assistance with implementation of these recommendations. This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

9. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

10. For additional information please contact the undersigned at (916) 854-1491 or via email at



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CONTROL	-								
NUMBER	HAZARD DESCRIPTION	SITE	RAC	8	SUSPENSE	ACTION	Estimated	DATE	REFERENCES
CLOSED				(Abatement Plan)	DAIE	OIC/NCOIC	Cost(s)	CORRECTED	
NMDA-080812- 4.1	The analytical results for lead on the northeast corner of the drill hall floor was was 200 µg/ft ² .	Deming Armory	т	 Clean the floors of the drill hall to a level of less than 40 µg/ft² following the guidance in the attached SOPs. Perform post-cleanup wipe sampling to ensure lead levels are within the criterion outlined in the IHSW SOP for Armory Cleanup. 	-				IHSW SOP Lead, 29 CFR 1910.1025 (h)(1)
NMDA-080812- 4.4	An asbestos survey could not be located during this IH Assistance Visit.	Deming Armory	ю	Either locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.					29 CFR 1910.1001()(3)(i)
NMDA-080812- 4.4	Personnel have not been provided with asbestos awareness training.	Deming Armory	4	Based on the findings of this survey, provide awareness training to assigned personnel for the specific types of asbestos in this Armory.			-		29 CFR 1910.1001 or 1101 or AR 40-5
NMDA-080812- 4.3	Stained ceiling tiles are present in the female sleeping quarters on the second floor.	Deming Armory	4	Ensure water intrusion is examined and leaks are repaired in the female sleeping quarters.					Recommended Practice

Reference DA FORM 4754 VER: 15 OCT 2009

Industrial Hygiene Southwest Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS



ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- 6. Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> <u>but check with local Environmental Office.</u>
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- a. Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- b. Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> <u>requirements may be reduced after it has been determined non-hazardous</u> <u>levels have been achieved</u>.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. Dry sweeping, dusting, wiping or blowing with compressed air shall not be permitted

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. <u>Completely clean each room before moving on</u>.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - b. Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only -after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

 Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

 Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (Cleaned 2x's Monthly)
 - c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and **is not a Converted IFR space**, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.



IH ASSISTANCE VISIT

New Mexico Army National Guard **Deming Armory** 700 South Pearl Street Deming, New Mexico 88030

November 20, 2012

Prepared for:

Industrial Hygiene Southwest 10510 Superfortress Avenue, Suite C Mather, California 95655

Prepared by:



Reviewed by:



industrial riggiene services ivianager

Project #AL127212

640 EAST WILMINGTON AVENUE SALT LAKE CITY, UT 84106

TELEPHONE: 801-466-2223

FAX: 801-466-9616

E-MAIL: IHI@IHI-ENV.COM

SALT LAKE CITY

EMERYVILLE

PHOENIX

DENVER

SEATTLE

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IHSW Lead Cleanup SOP

IH Assistance Visit NMARNG - Deming Armory

Appendix N

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EXECUTIVE SUMMARY

On August 8, 2012. Non-Responsive of IHI Environmental (IHI) conducted an IH Assistance Visit at the Deming Armory in Deming, New Mexico. The primary point of contact for information gathered during this survey was **Non-Responsive** (505) 474-2636, **On-Responsive**

The objectives of this IH Assistance Visit were to perform the following activities:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system, and collect indoor air quality data;
- review hazardous material storage and use procedures;
- review safety training and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- · perform a noise survey on the kitchen appliances; and
- · conduct a safety walk-through evaluation and note any existing safety hazards.

Significant findings for this IH Assistance Visit can be found in the Industrial Hygiene Southwest – Violation Inventory Log, located in Appendix K of this report.

The report that follows this Executive Summary should be read in its entirety because it includes important information not included in this summary, such as task descriptions, work space locations, regulatory requirements, and additional recommendations.

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1.0 INTRODUCTION

On August 8, 2012, Non-Responsive of IHI Environmental (IHI) conducted an IH Assistance Visit at the Deming Armory located at 700 Pearl Street, Deming, New Mexico 88023. The

primary point of contact	for information gathered du	uring this survey was	Non-Respon
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Non-Responsive

1.1 Objectives

Evaluate the occupational environment of the administrative areas in the armory to determine the presence of operational health and safety risks, and make recommendations for corrective actions or follow-up work to manage those risks.

1.2 Scope of Work

To achieve the above objectives at this facility, the survey included the following work:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system and collect indoor air quality data;
- · review hazardous material storage and use procedures;
- review safety training, and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- · perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

2.0 PROCESS DESCRIPTION

At the time of the IH Assistance visit, the primary unit assigned to the Deming Armory was deployed and the facility was unoccupied. The armory has offices used for administrative purposes, a classroom, a vault and supply room, a maintenance bay, weight room, break area, bathrooms, locker rooms, sleeping quarters, and a mechanical room. There are no civilian employees at this armory. No civilian activities are currently occurring in this armory.

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 521 of 1628 Weapons are not currently cleaned at this facility because the unit is deployed. However, when the unit was located at the Deming Armory, weapons were reportedly cleaned in the maintenance bay.

3.0 METHODS AND APPLICABLE REGULATIONS AND STANDARDS

3.1 Lead Wipe Sampling

Lead residue (dust) wipe samples were collected on horizontal surfaces, such as the drill floor, kitchen, administrative areas, and indoor firing ranges (where present) to determine housekeeping standards. Lead Wipe[™] brand wipes were used with a 100-square-centimeter template. The wipes used conform to American Society for Testing and Materials (ASTM) E1792, *Standard Specification for Wipe Sampling Materials for Lead in Surface Dust*. The collected wipe samples were placed in clean and labeled plastic containers. Samples were submitted to ALS Laboratories for analysis, using National Institute for Occupational Safety and Health (NIOSH) Method 7300. See Appendix I for sample locations and Appendix J for laboratory results.

The Mather, California, office of Industrial Hygiene Southwest has developed a Standard Operating Procedure (SOP) for lead, which is a blend of Occupational Safety and Health Administration (OSHA), U.S. Department of Housing and Urban Development (HUD), and Army regulations. Essentially, this SOP sets forth a criterion of 40 micrograms of lead per square foot (μ g/ft²) for converted indoor firing ranges, break rooms, floor surfaces, or any area that might be used for non-military functions. A 200- μ g/ft² criterion has been established for tool rooms, maintenance bays, furnace rooms, boiler rooms, storage closets, and other areas where the general public is not expected to visit.

3.2 Painted Surface Evaluation

The interior of the armory was visually inspected for peeling paint on the walls and ceilings.

3.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

The interior of the armory was visually inspected for signs of moisture intrusion that could result in fungal growth. Any signs of moisture intrusion (e.g., discoloration, staining, blistering) were noted and documented on a drawing for a follow-up evaluation.

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3.4 Asbestos Management

Armory personnel were asked if an asbestos survey and assessment had been conducted and whether there was a written Operations and Maintenance Program for the facility. IHI also reviewed any asbestos awareness training records.

3.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

The heating, ventilation, and air-conditioning (HVAC) systems that serve the armory were evaluated. This evaluation consisted of a visual inspection of the system to note any obvious problems, and a review of the facility maintenance plan, if one was available.

Carbon dioxide (CO₂), temperature, and relative humidity were measured throughout the armory using a TSI Model 8762 IAQ-Calc[™] Monitor. The unit was calibrated before use with certified zero gas and 1,000 parts per million (ppm) CO₂ span gas. See Appendix E for IAQ data.

Carbon dioxide is a normal constituent of exhaled breath and is commonly measured as a screening tool to evaluate whether adequate fresh, outdoor air is being provided. If typical CO₂ levels within a building are maintained at or less than 1,000 ppm, with appropriate temperature and humidity levels, complaints about indoor air quality should be minimal (American Society for Testing and Materials (ASTM) – International D6245-12, *Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality*). If a building exceeds this guideline, it should not be interpreted as an unhealthy or hazardous situation. An elevated CO₂ level is only an indication that the amount of outside air being brought into a building may be inadequate or poorly distributed and further investigation may be warranted.

In building areas where there are potential sources of CO₂ other than exhaled breath, the guidelines above cannot be used. The OSHA standard for CO₂ should be used in these instances. The OSHA standard is an eight-hour time-weighted average (TWA) of 5,000 ppm with a short-term 15-minute average limit of 30,000 ppm.

IH Assistance Visit NMARNG - Deming Armory IHI Environmental Project No. AL127212

3.6 Hazard Communication and Hazardous Material Storage

A review of the armory's chemical inventory and Material Safety Data Sheet (MSDS) file was accomplished. Chemical storage areas, i.e., flammable storage cabinets/rooms, were also inspected.

3.7 Safety Training and Record Keeping

A review of safety training programs and documentation was performed to determine if the armory's site-specific training programs and annual documentation were current.

3.8 Kitchen Ventilation Survey

Duct velocity measurements were collected on facility kitchen exhaust hoods (when present) using a TSI VelociCalc, Model 8345.

The 2011 National Fire Protection Association Standard 96, Section 8.2.1.1, requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 feet per minute (fpm).

3.9 Kitchen Appliance Sound-Level Measurements

Sound-pressure levels of the kitchen appliances (when present) were measured using a Sound Level Meter in the dBA and dBC ranges, with the meter set on slow response. DD Forms 2214 are provided in Appendix M.

3.10 General Safety Walk-Through

A limited Fire Life Safety Code walk-through evaluation of the armory was performed to:

- document the presence of a fire alarm,
- determine if fire extinguishers are properly mounted and current on their monthly and annual inspections,
- determine if eyewash station inspections are current, and
- document any fire or safety hazards in the armory.

IH Assistance Visit NMARNG - Deming Armory

IHI Environmental Project No. AL127212

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3.11 Equipment Used

Type Model Number Serial Number **Calibration Date** TSI VelociCalc™ 8345 98060408 6/12/2011 Meter TSI IAQ Calc™ 8732 54100272 03/19/2012 3M SLM SD-100 SD20010465 10/12/2011

The following equipment was used for this survey.

The calibration certificates for these instruments are attached in Appendix H.

3.12 Quality Assurance

IHI employs, at a minimum, the following methods to help assure quality of field investigations and reports:

- · Use of appropriately educated and experienced personnel;
- · Documentation of pertinent field and sampling information
- Continuing education of technical personnel through attendance at training sessions and conferences, and literature review;
- Peer and supervisory review of sampling strategy, field methods, calculations, and reports;
- Strict adherence to method requirements, in particular to NIOSH and OSHA standard methods, including strict chain-of-custody protocol;
- Use of accredited laboratories, or, in cases where specific accreditation is not available, choice of laboratories of good reputation, having strong QA/QC programs.
- Calibration of instruments, including field calibration via manufacturers' recommended procedures and routine (typically annual) off-site calibration of equipment via certified third parties.

4.0 FINDINGS AND RECOMMENDATIONS

4.1 Lead Wipe Sampling

The laboratory analytical results indicate that lead concentrations for all but one of the lead wipe samples collected were below the 40 μ g/ft² criterion which is outlined in the IHSW Standard Operating Procedure (SOP) for Armory Cleanup. The wipe sample on the Northeast corner of the drill hall floor had a lead concentration of 200 μ g/ft². See Appendix I for a data table and a drawing showing sample locations and Appendix J for the laboratory reports. Photographs were taken of each sampling point and are presented in Appendix C.

IHI Environmental Project No. AL127212

Recommendations

1. Clean the floors of the drill hall to a lead concentration of less than 40 μ g/ft², following the guidance in the attached SOPs.

2. Perform post-cleanup wipe sampling to ensure lead levels are within the criterion outlined in the IHSW SOP for Armory Cleanup.

4.2 Painted Surface Evaluation

No peeling paint was observed in the Deming Armory; therefore, no paint samples were taken.

Recommendation

None

4.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

Visual evidence of water damage and moisture intrusion was observed in water-damaged ceiling tiles in the female sleeping quarters on the second floor. Personnel noted that the roof had recently been patched in that location; however, personnel also noted that it appeared as if there were more damaged ceiling tiles than before.

Recommendation

1. Ensure water intrusion is examined and leaks are repaired in the female sleeping quarters.

4.4 Asbestos Management

An asbestos survey report could not be located during this visit.

Recommendations

1. Locate the asbestos survey report for this building or contract with a licensed firm to perform an asbestos survey and assessment.

Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

The armory is heated by two large gas-fired heaters located on the drill hall ceiling and individual units in the office areas. Cooling air is provided by two swamp coolers in the drill hall and individual air-conditioning units supply cooling air in the office areas.

The average outdoor CO_2 concentration at the time of the survey was 333 ppm. The highest CO_2 concentration measured inside the building was 440 ppm; however, the building was not occupied at the time of the survey, so the measured CO_2 concentration is not representative of occupied conditions. Therefore, no conclusions can be drawn with respect to the likelihood of occupant complaints based on the measured CO_2 concentration.

Building air temperatures ranged from 75.5 to 82.0°F and relative humidity was between 33 and 37 percent during the testing period. Air temperatures were higher than the recommended comfort range of 68-75°F, and the relative humidity was within the recommended comfort range of between 30 and 60 percent. Although the air temperatures Low relative humidity is common in New Mexico the majority of the year. Humidity levels above 60 percent can result in proliferation of bacteria and fungi, while levels below 30 percent can cause dry eyes, skin, and mucous membranes.

State maintenance personnel maintain all HVAC units in the armory.

Recommendation

None

4.6 Hazard Communication and Hazardous Material Storage

4.6.1 Hazardous Materials Inventory and Material Safety Data Sheets (MSDS)

At the time of the IH Assistance Visit, no chemical products were in the Deming Armory due to the recent renovation. A chemical inventory of all custodial products used by the armory, along with associated MSDSs, is maintained in a master binder located in the boiler room.

Recommendation

None

4.6.2 Flammable Storage Cabinets

No flammable storage cabinets are located in this armory; however, there is a flammable storage cabinet located in the FMS.

Recommendation

None

IH Assistance Visit NMARNG - Deming Armory IHI Environmental Project No. AL127212

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 527 of 1628

4.7 Safety Training and Record Keeping

Safety training records were not located at the Deming Armory at the time of the IH Assistance Visit since the armory is not currently occupied.

Recommendation

None

4.8 Kitchen Ventilation Survey

There is no commercial kitchen at the Deming Armory, so a ventilation survey was not completed on this facility.

Recommendation

None

4.9 Kitchen Appliance Sound-Level Measurements

All of the kitchen appliances measured produce noise levels well below the hazardous noise criterion of 85 dBA. Based on this information, there is no need for noise reduction measures or additional noise dosimetry surveys for this area.

Recommendation

None

4.10 General Safety Walk-Through

1. Housekeeping throughout the facility was good.

2. There is a fire alarm in this facility; monthly inspections are completed by SSG Villagran while the primary unit is deployed, and annual inspections are completed by Simplex-Grinnell.

3. Fire extinguishers are strategically located throughout the armory. All extinguishers were current on their annual and monthly inspections.

4. Fire evacuation routes are posted strategically throughout the building.

Electrical panel boxes were inspected and were found to contain no exposed wiring or openings in the panel.

Recommendation

None

IH Assistance Visit NMARNG - Deming Armory

8

IHI Environmental Project No. AL127212

5.0 PROJECT LIMITATIONS

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, IHI's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. IHI assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of IHI, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since IHI is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

6.0 PROJECT APPROVAL

This IH Assistance Visit was reviewed and approved by:



November 20, 2012 Date

IH Assistance Visit NMARNG - Deming Armory 9

IHI Environmental Project No. AL127212

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Technical Assistance: For technical assistance regarding information found in this report or the performed survey, please contact **NON-Responsive** at 801-466-2223, or **Non-Responsive** f the Southwest Regional Industrial Hygiene Office at 916-804-1707.

Contact the State Safety and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations are needed.

IH Assistance Visit NMARNG - Deming Armory IHI Environmental Project No. AL127212

Appendix A

References

- American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice
- American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices
- American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting.
- American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment

AR 40-5, Preventative Medicine

- AR 40-10, Appendix B Health Hazard Assessment Program in Support of Army Material Acquisition Decision Process
- AR 385-10, The Army Safety Program
- Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation.

National Safety Council, Fundamentals of Industrial Hygiene

NOR 385-10, Army National Guard Safety and Occupational Health Program

- TB MED 503, The Army Industrial Hygiene Program
- TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide
- TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997
- Title 29, Code of Federal Regulations (CFR), 2011, revision Part 1910, Occupational Safety and Health Standards

Appendix B

Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in 29 CFR 1910, ACGIH Industrial Ventilation Manual, and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD-1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling was conducted in compliance with applicable National Institute of Occupational Safety and Health (NIOSH) Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or NIOSH Recommended Exposure Limits (REL).

Occupational Safety and Health Administration (OSHA)

OSHA has established Permissible Exposure Limits (PELs) for workplace toxic and hazardous substances listed in 29 CFR 1910.1000 Tables Z-1, Z-2 and Z-3. Most OSHA PELs are based on 8-hour time weighted averages (TWAs); when sampling periods are less than 8 hours, the result must first be converted to an 8-hour TWA before comparing it to the OSHA PEL. Some OSHA PELs are based on Short Term Exposures Limits (STEL) of 15 minutes of worst-case exposure or Ceiling Limits of worst-case peak exposures (sampled as a 15 minute exposure if direct-reading methods are not available).

OSHA regulations are legally enforceable. Employers are required to maintain employee exposures below PELs. The best practice is to eliminate hazards and use safer substitutes. Alternatively, engineering and/or administrative (work practice) controls may reduce exposures to acceptable levels. Personal protective equipment should be the solution of last resort, implemented after all other efforts to eliminate the hazard have been exhausted or deemed infeasible. OSHA 29 CFR 1910.134 covers the use of respiratory protection in the work place.

American Conference of Governmental Industrial Hygienists (ACGIH)

Unlike the OSHA PELs, the ACGIH TLVs are not consensus standards; however, TLVs represent a scientific opinion based on a review of existing peer-reviewed scientific literature by committees of experts in public health and related sciences.

Occupational Exposure Limit

In accordance with the Department of the Army (DA) Pamphlet 40-503, Industrial Hygiene Program (DA PAM 40-503), "The DA mandates the use of ACGIH TLVs when they are more stringent than OSHA regulations or when there is no PEL." The DA defines the resulting exposure limit as the Occupational Exposure Limit (OEL).





Photograph 1 Deming Armory, Front, Exterior

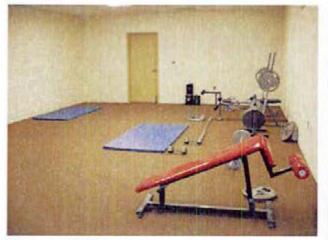
Photograph 2 Deming Armory, Rear, Exterior



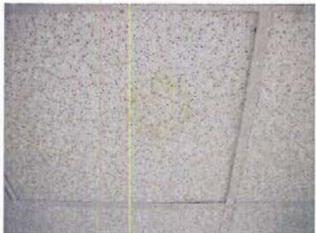
Photograph 3 Deming Armory, General View



Photograph 4 Deming Armory, General View



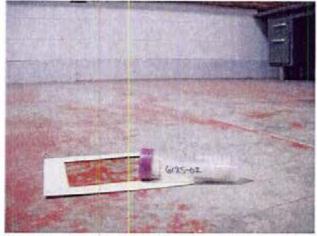
Photograph 5 Deming Armory, Weight Room/Converted IFR



Photograph 6 Deming Armory, Stained Ceiling Tiles in Female Sleeping Quarters



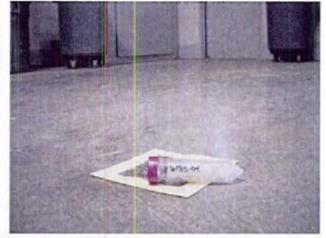
Photograph 7 Location of lead wipe sample number 6185-01



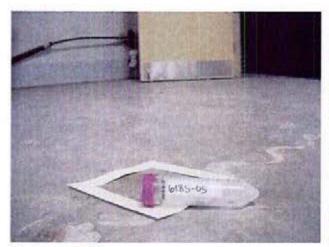
Photograph 8 Location of lead wipe sample number 6185-02



Photograph 9 Location of lead wipe sample number 6185-03



Photograph 10 Location of lead wipe sample number 6185-04

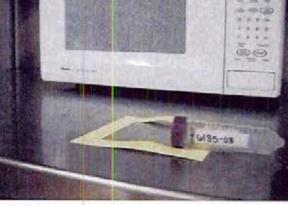


Photograph 11 Location of lead wipe sample number 6185-05



Photograph 12 Location of lead wipe sample number 6185-06





Photograph 13 Location of lead wipe sample number 6185-07

Photograph 14 Location of lead wipe sample number 6185-08



Photograph 15 Location of paint chip sample number 6185-09

MSDS for Cleaning Cage

A.B.C./ Allied Block Chemical	A
Ajax/ Clogate-Palmolive	В
Amrep Inc	С
Big D	D
Blue/ Patterson Lab	Е
Carroll Co.	F
Clorox	G
DPI Southwest	н
Dracett Professional/ SC Johnson	I
Fitzpatrick Inc.	J
GOJO	К
Grainger	L
	M
Johnson Wax	N
LHB Industries	0
Lighthoues for the Blind of Houston	Ρ
Proctor and Gambel	Q
Pure Bright/ KIK Int.	R
Ramsey	S
Zep	т

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attient maine	Quantity on hand	puer	Unit of Issue	Manufacture
15 gal oil base floor sweep	3	box	box	2600761/ man ID: 44031cart
Brite glo cleanser	30	can	can 21 oz can	A.B.C./Allied Block Chemical
Soft Cleanser	30	can	can 21 oz can	Ajax/ Colgate-Polmolive
Chlorine Cleanser	28	can	can 21 oz can	Ajax/ Colgate-Polmolive
Oxygen Bleach Cleanser	24	can	can 21 oz can	Ajax/ Colgate-Polmolive
Misty Dry Deodorizer	ຮາ	can	7 oz can	Amrep Inc.
Glass and mirror Cleaner RTU	2	Bottle		Amrep Inc.
Para urinal toss blocks	2	box	12 blocks a box	big D
Para toilet bowl hanger	-	box	12 hangers a box	big D
Bleach	-	Bottle		Blue Ribbon/ Patterson Lab
Combo Plus Cleaner/ Deoderizer	m	can	can 18 oz can	Carroll Co.
Clean N Fresh handsoap	39	box	27 oz box	Carroll Co.
sudsing cream cleanser	91	Bottle	Bottle 32 oz bottle	Carroll Co.
Clorox toilet bowl cleaner	F	Bottle	Bottle 24 oz bottle	Clorox
pine sol all purpose cleaner	2	Bottle	144 oz bottle	Clorox
pine sol clean.disinfect.deodorize	3	Bottle	144 oz bottle	Clorox
Clorox Bleach	J	Bottle	96 oz bottle	Clorox
Para toilet bowl block	61	box	12-4oz blocks a box	DPI southwest
multisurface cleaner & polish	28	Bottle	32 oz bottle	DPI southwest
contact disinfect hospital cleaner	1-1	Bottle	32 oz bottle	DPI southwest
Big John	8	Bottle	Bottle 32 oz bottle	DPI southwest
RTU Glass Cleaner	5	Bottle	Bottle gallon bottle	DPI southwest
15 to 1 consentrated glass cleaner	1	Bottle	Bottle gallon bottle	DPI southwest
Concentrated Glass Cleaner	2	Bottle	Bottle gallon bottle	DPI southwest
Quarterback neutral cleaner	1	Bottle	Bottle gallon bottle	DPI southwest
Extra point restorer	و	Bottle	gallon bottle	DPI southwest
Drano liquid drain opener	207	Bottle	32 oz bottle	Dracett Professional/ SC Johnson
Scouring powder w/chlor. bleach	0	can	21 oz can	Fitzpatrick Inc.
Premium Hand Wash w/ skin cond.	Т	Bottle	40.5 oz bottle	Gojo
Original formula hand cleaner	12	box	27 oz box	Gojo
Lotion Cream soap	1	Bottle	gallon bottle	Gojo
Castillian lotion soap	_	Bottle	Bottle gallon bottle	Gojo
Antibactorial Lation Connucle maint		1.111		

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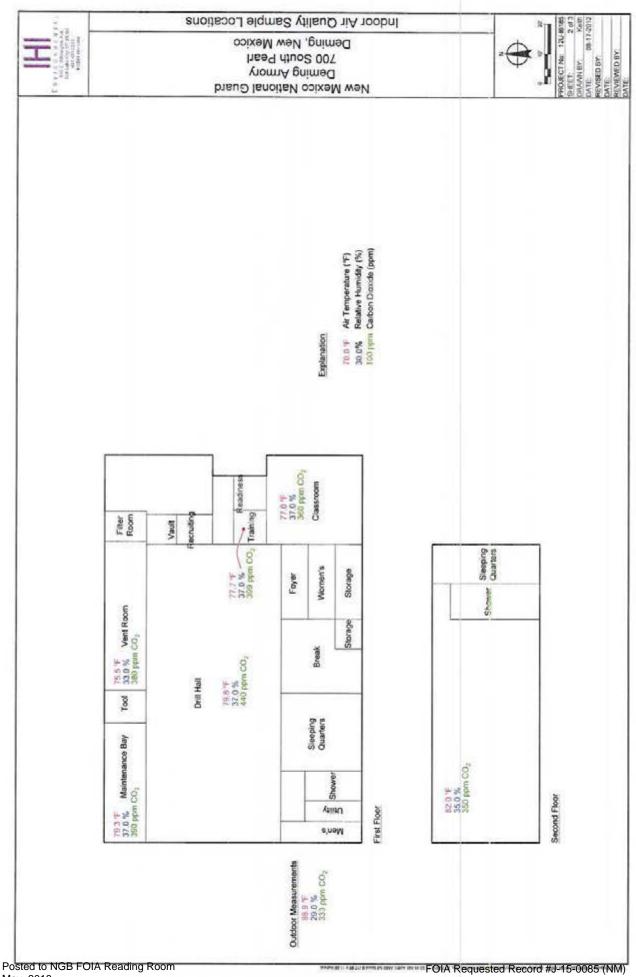
Cleaning Cage

Cleaning Cage

Dust mop Treatment	-	can	can 18 oz can
Versa- buff spray buff & restorer	1	Bottle	Bottle 32 oz bottle
Terra-Cote hardfloor seal finish	-	Bottle	Bottle gallon bottle
Ultra Bleach	5	Bottle	Bottle 96 oz bottle
Aqua treat Dust mop Treatment	2	can	can 18 oz can
Lemon wax furniture polish	-	can	can 18 oz can
White Coconut liquid soap	07	Bottle	Z. O Bottle gallon bottle
Brite high acid disinf. toilet bowl	7	Bottle	Bottle 32 oz bottle
G P Forward cleaner	12	Bottle	Bottle gallon bottle
Power Green all purp. Clean/deg.	44	Bottle	Bottle 22 oz bottle
Detergent general purpose clean	19	Bottle	Bottle 16 oz bottle
Spic and Span all Purpose Cleaner	5	box	box 27 oz box
Disinfectant Cleaner	24	can	can 21 oz can
Germicidal Bleach	2	Bottle	Bottle gallon bottle
Defoamer	2	Bottle	Bottle gallon bottle
Meter Mist Peach	101	can	can 7 oz can

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May, 2018

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- 1

Army National Guard <u>Armory</u> Survey (To Be Included In Report)

Five lead wipe samples collected from drill floor (take samples from dusty horizontal floor surfaces)	yes,
Are any weapons cleaned in the facility, if yes where are they cleaned?	Currently Deployed, but will clean weapons in Maintenance Bay
Additional lead wipe samples taken from 25% of the rest of the building(on floor areas only)	yes -
Is there a converted indoor firing range? If so collect additional wipe samples IAW the SOW.	YES
Is there any peeling paint? Take bulk sample if able.	. סנא
Are there any signs of water damage or mold?	Female Sleeping Quarters
Any suspected ACM? Where and what condition is it in. Bulk sample if able.	Does not know.
Quality of housekeeping	good.
HVAC maintenance plan in place?	State Maintenance Revsonnel
Overall condition of HVAC system	Individual units in office areas. (H 2 C) Butane Gas units on Drill Hall ceiling
Obtained CO2, Temp, RH monitoring	Swamp Couters on Da'll Hall Flow
HAZMAT inventory on hand (make copies for the report), MSDS available for all materials.	yes.
HAZMAT storage, Condition of lockers, if outside storage building is used is it ventilated and does it meet OSHA standards.	outside ? in cleaning cage.

Fire alarm in working conditionnot usually in place in older armories	yes. Non-Responsive inducts murthly d Simplex-chever conducts yearly.
Fire extinguishers in place and properly identified and mounted	yes.
40	· · · · · · · ·
Evidence of monthly fire extinguisher inspections	Yes.
Annual fire extinguisher inspections tags current	yes.
Are cye wash stations available in areas where hazardous materials are used and are they inspected weekly (inspections must be documented)	bø ·
Egress routes accessible and properly markednoted on Fire Evacuation Plan	yes.
Training programs in place; Hazcom, Respiratory Protection, Confined Spaces, Hearing conservation, PPE (if applicable)	Deployed.
Any Photo labs	N/A
Any hazardous noise sources	none
Light levels checked throughout building	NJA
Breaker panels properly labeled with no exposed wiring	yes
Check building occupancy 1. How many military personnel, how many civilian personnel	Currently Deplayed.
2. What types of units occupy facility, i.e. Administrative, Maintenance, etc.?	
Any civilian activities in armory (cub scouts, classes, day care, parties etc)	None currently
Obtain two lead air samples	On IHSW Request Only

Evaluate Kitchen Stove Hood Flow Present IAW NFPA Standard 96.	TH N/A	÷	°1		r	
Collect Source Noise Measurement Kitchen Appliances and Document DD 2214	Constitution of the second	·• ·	3F		• •	
Conduct a safety walkthrough of en facility document any safety deficie found.			2 e 2	z		
Take photos of outside of building sample points and any pertinent h or concerns.				- X ,		
Name of Armory, POC, phone #, a and organizations in Armory	ddress De Zo	os fie Ming (Add Che	Roman	٣ų 8023 .		
(Add Checklist to Report)	D-	(TTATA OTTO	CIMIDE EO IN	éport)		
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FACILITY INFORMATION

(Information listed in First Section) (1st Few Paragraphs/Pages of Report)

1. Date Prepared: 08/08/2012

2. Names (and Company Name) of Personnel Conducting Industrial Hygiene Site Assistance Visit: Non-Responsive HI Environmental

3. Facility Name and Brief Summary of Primary Activities Conducted at Facility: Deming Armory, Transportation Co with mechanics

4. Facility Address: 700 South Pearl Street, Deming, NM 88030

5. Primary Unit Assigned to Facility Non-Responsive

- 6. Co-Tenant Units Assigned or Working Within Facility (LIST ALL): None
- 7. Square Ft. Area of Facility: approximately 14,500 sq. ft
- 8. Work Schedule: Currently deployed
- 9. Number of work bays: M1165-M1078
- 10. Equipment Density and Type: N/A
 - a. List Equipment Nomenclature Serviced or Maintained at Facility: N/A
 - b. List Total # for Each Nomenclature Serviced or Maintained at Facility: N/A
- 11. Total Number of Personnel: Currently deployed

12. No. of Admin. Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee): Unknown

13. No. of Maintenance Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee): Unknown

14. Total Number of Personnel Enrolled in the Hearing Conservation Program: Unknown

PAGE 1 of 2

- 15. Total Number of Personnel Enrolled in the Respiratory Protection Program: Unknown
- 16. Total Number of Personnel Enrolled in the Medical Surveillance Program: Unknown
- 17. Total Number of Personnel Enrolled in the Vision Program: Unknown
- 18. Facility Commander: Non-Responsive



- 19. Satety Officer: Unknown
 - a. Email Address, Commercial Telephone Number and Unit Assigned to:
- 20. Facility Telephone Number: Temporary NCOIC SSG Villagran (505) 474-2636

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3M Occupational Health and Environmental Safety Division



BEST AVAILABLE COPY 1060 Corporate Center Drive Oconomowoc, WI 53066-4828 www.3m.com/OccSafety 651 735 6501 800 328 1667 Customer Service 800 243 4630 Technical Assistance

Certificate of Calibration

Certificate Number: 265801SD20010465

Model: SD-200 Class 2 Integrating SLM

Date Issued: 12-Sep-2011

S/N: SD20010465

On this day of manufacture and calibration 3M certifies that the above listed product meets or exceeds the perfomance requirements of the following accoustic standard(s)

ANSI S1.4 1983 (R 2006) - Type 2 / Specification for Sound Level Meters ANSI S1.43 1997 (R 2007) - Type 2 / Integrating-Averaging Sound Level Meter IEC 61672-1 (2002) - Class 2/Electo Accoustics - SLMs - Pt1: Specifications

Test Conditions: Temp: 18-25°C Humidity: 20-80% R.H. Barometer: 950-1050 mBar

Test Procedure: S053-771

Reference Standard(s):

Device B&K Ensemble

Ref Standard Cal Due 10/7/2011 Uncertainty - Estimated at 95% Confidence Level (k=2) +/- 2.2% Acoustic (0.19dB)

Calibrated By:

Non-Responsive

In order to maintain best instrument performance over time, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration to drift before the recommended interval has expired. See user manual for more information.

All test equipment used in the test and calibration of this instrument is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced except in its entirety without the written approval of 3M, Inc.

098-621 Rev B

Page 1 of 2

3M Occupational Health and Environmental Safety Division



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Declaration of Conformity

Product/Model: SD-200 / Sound Detector - Class 2 Integrating SLM

Directives Covered:

- > EMC / Council Directive 2004/108/EC on Electromagnetic Compatibility.
- > Safety / Council Directive 2006/95/EC on Low Voltage Equipment Safety.
- > RoHS / Council Directive 2002/95/EC Restriction of Hazardous Substances.
- > WEEE / Council Directive 2002/96/EC Waste electrical and electronic equipment.
- > Performance / Council Directive 2004/22/EC Measuring Instruments.

The basis on which conformity is declared:

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use EMC requirements, Group 1, Class B Equipment (emissions)

CFR:47 (2008) Code of Federal Regulations: Part 15 Subpart B - Radio Frequency Devices - Unintentional Radiators.

- EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use EMC requirements, Industrial Location Immunity.
- ANSI S1.4 1983 (R 2006) Type 2 / Specification for Sound Level Meters
- ANSI S1.43 1997 (R 2007) Type 2 / Integrating-Averaging Sound Level Meter
- IEC 61672-1 (2002) Class 2/Electo Accoustics SLMs Pt1: Specifications
- IEC 61010-1 (2010) Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General Requirements

This instrument is considered WEEE Category 6 (Electrical and electronic tools), and therefore falls within the scope of the RoHS Directive. These units are RoHS compliant.

Note: This certification applies to all standard options and accessories supplied with the SD-200.

At the end of it's life cycle, this product and internal power cell must be sent to a WEEE recycling center, and is marked accordingly.

The technical construction file required by this directive is maintained in Oconomowoc, WI USA

Non-Responsive

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75% CERTIFICATE OF CALIBRATION AND TESTING

TSI Model 8732

TSI Serial No. 02100504

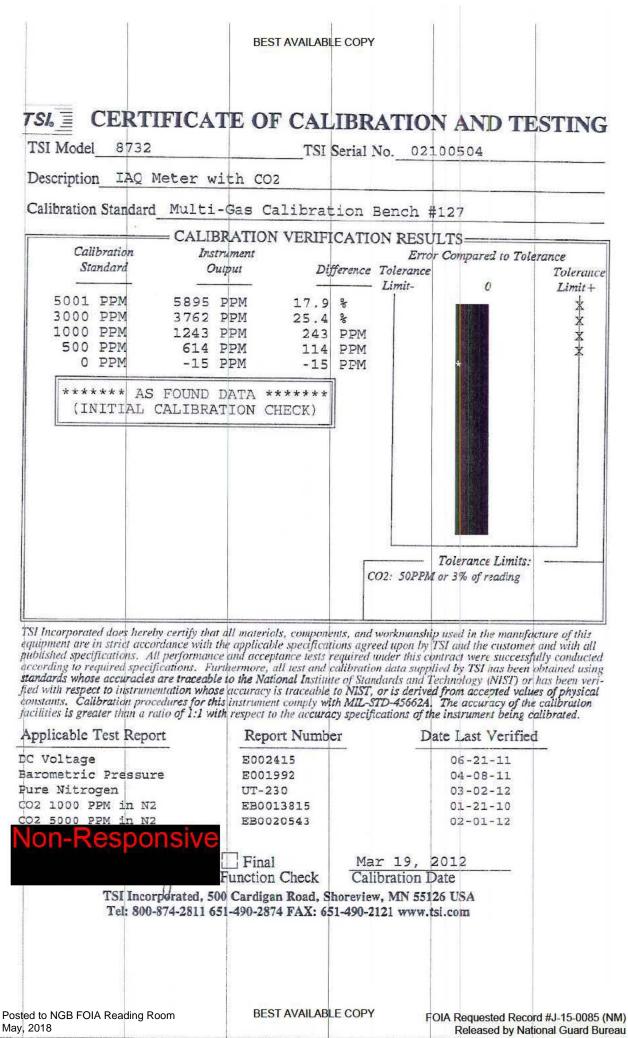
Description IAQ Meter with CO2

Calibration Standard Multi-Gas Calibration Bench #127

	ibration	Ins	trument				Compared to Tole	
50	indard		rutput	Dij —	ference	Tolerance Limit-	0	Tolerance Limit+
5001 3000 1000 500 0	PPM PPM PPM PPM PPM		PPM PPM PPM PPM PPM	-0.2 0.4 1 -4 -15	% PPM PPM PPM		* .	
					0	:02: 50PPM	Tolerance Limits: or 3% of reading	

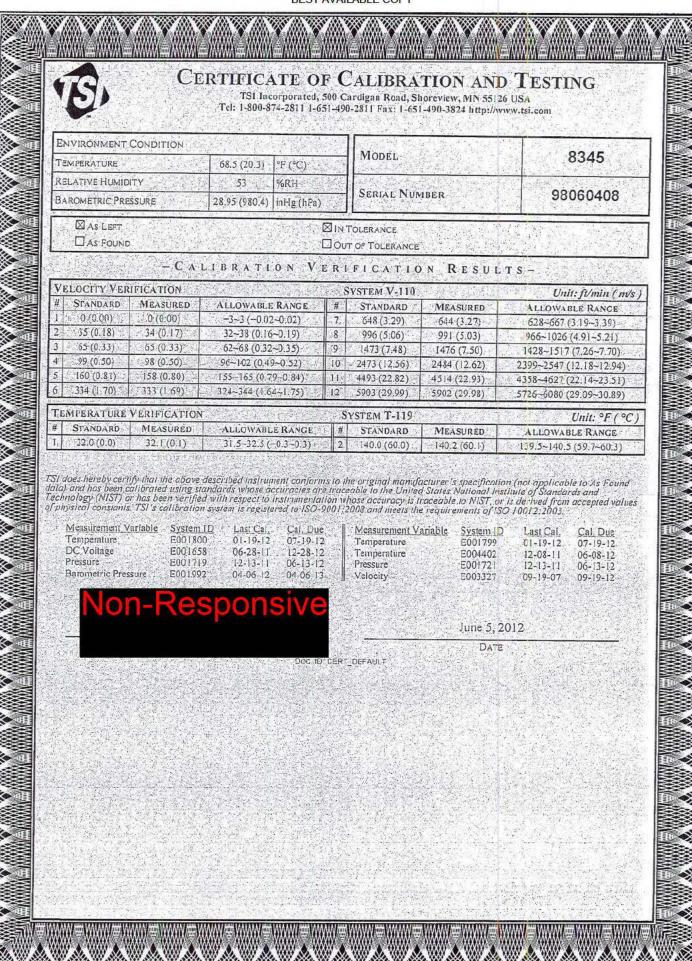
TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. Furthermore, all test and calibration data supplied by TSI has been obtained using standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. Calibration procedures for this instrument comply with MIL-STD-45662A. The accuracy of the calibration facilities is greater than a ratio of 1:1 with respect to the accuracy specifications of the instrument being calibrated.

Applicable Test Report	Report Number	r Date Last Ver	ified
DC Voltage	E002415	06-21-11	
Barometric Pressure	E001992	04-08-11	
Pure Nitrogen	UT-230	03-02-12	
CO2 1000 PPM in N2	EB0013815	01-21-10	1
CO2 5000 PPM in N2	EB0020543	02-01-12	
Non-Responsive	Final	Mar 19, 2012	
	Function Check	Calibration Date	
151 Incorporated	, 500 Cardigan Road, Sh	oreview, MN 55126 USA	
	11 651-490-2874 FAX: 651		
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www

INSV/06

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

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TEMPERATURE	67.8 (19.9)	or (°C)	MODE	L	8345
RELATIVE HUMIDITY	53	%RH		<u>na se parte da la compo</u> nda da la componentia da la componentia da la componentia da la componentia da la compo Componentia da la componentia da la comp	
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TSI - Customer Service report Thank you for the opportunity to service your instrument.

RMA Number: 800245509

Ship-to party IHI ENVIRONMENTAL 640 E WILMINGTON AVE SALT LAKE CITY UT USA

Sold-to party 17032 IHI ENVIRONMENTAL 640 E WILMINGTON AVE SALT LAKE CITY UT USA

Service Information: Purchase Order 12U-I6001TSIJCH Purchase Order Date 06/05/2012

17032

Description Calibration of VelociCalc 8345

Equipment 98060408 Serial Number 98060408 Material 8345

Service Description:

Return Reason: ANNUAL CALIBRATION

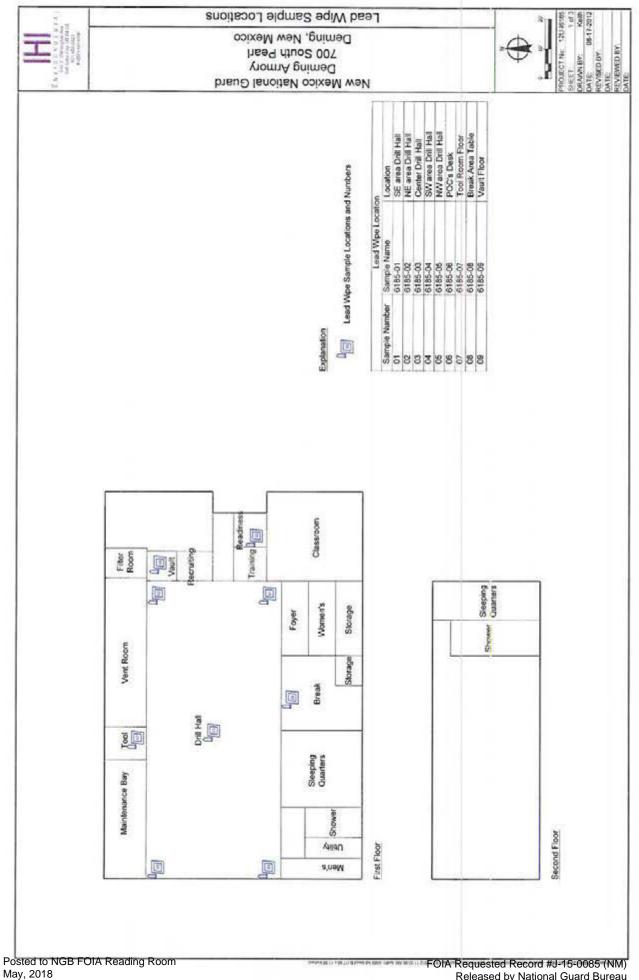
Findings:

Unit sent in for clean and calibration. The unit failed as found.

Action:

The unit was cleaned, calibrated, and a complete operational checkout

was performed.



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Deming, NM Armory - Lead Wipe Sample Results

Sample Number	Collection Date	Location	Result µg/ft ²
6185-01	8/8/2012	SE Corner of Drill Hall Floor	<23
6185-02	8/8/2012	NE Corner of Drill Hall Floor	200
6185-03	8/8/2012	Center of Drill Hall Floor	<23
6185-04	8/8/2012	SW Corner of Drill Hall Floor	36
6185-05	8/8/2012	NW Corner of Drill Hall Floor	<23
6185-06	8/8/2012	POC's Desk	<23
6185-07	8/8/2012	Tool Room Floor	<23
6185-08	8/8/2012	Break Room Table	<23
6185-09	8/8/2012	Vault Floor	<23

Lead Wipe Sample Results



ANALYTICAL REPORT

Report Date: August 15, 2012

IHI Environmental

640 East Wilmington Avenue Salt Lake City, UT 84106 Phone: (801) 466-2223 Fax: (801) 466-9616

Ion-Responsive

Workorder: 34-1222310 Client Project ID: 12U-I6185/Armory-Deming, UT Purchase Order: 12U-I6185 Project Manager

Analytical Results

Sample ID: 6185-01	Me	dia: Lead Dust	Wipe	Collected: 08/08/2012
Lab ID: 1222310001	Sampling Locat	Sampling Location: Armory-Deming, UT		Received: 08/10/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: An	ea 100 cm²	Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

Sample ID: 6185-02		dia: Lead Dust	1991 24 28 88 9 P.	Collected: 08/08/2012 Received: 08/10/2012
Lab ID: 1222310002 Method: NIOSH 7300 Mod.	Sampling Locat	g Parameter: Ar	and the second s	Prepared: 08/14/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)	Analyzed: 08/14/2012
Lead	22	200	2.5	
Sample ID: 6185-03	Ме	dia: Lead Dust \	Wipe	Collected: 08/08/2012
Lab ID: 1222310003	Sampling Location: Armory-Deming, UT		Received: 08/10/2012	
Method: NIOSH 7300 Mod.	Samplin	Sampling Parameter: Area 100 cm ²		Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

Sample ID: <u>6185-04</u>	Me	dia: Lead Dust	Wipe	Collected: 08/08/2012
Lab ID: 1222310004	Sampling Locat	tion: Armory-Dei	ming, UT	Received: 08/10/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Ar	ea 100 cm²	Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	3.8	36	2.5	

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, USA 84123 PHONE +1 801 266 7700 FAX +1 801 268 9992 ALS GROUP USA, CORP. Part of the ALS Laboratory Group A Campbell Brothers Limited Company

www.alsglobal.com

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Page 1 of 3 Posted to NGB FOIA Reading Room May, 2018

Environmental

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IHREP-V10.9 FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 555 of 1628



ANALYTICAL REPORT

Workorder: 34-1222310 Client Project ID: 12U-I6185/Armory-Deming, UT Purchase Order: 12U-I6185 Project Manager: Non-Responsive

Analytical Results				
Sample ID: 6185-05		dia: Lead Dust \		Collected: 08/08/2012
Lab ID: 1222310005	Sampling Locat	ion: Armory-Der	ning, UT	Received: 08/10/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Are	ea 100 cm²	Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6185-06	Me	dia: Lead Dust V	Vipe	Collected: 08/08/2012
Lab ID: 1222310006	Sampling Locat	ion: Armory-Der	ning, UT	Received: 08/10/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Are	ea 100 cm²	Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: <u>6185-07</u>	Me	dia: Lead Dust V	Vipe	Collected: 08/08/2012
Lab ID: 1222310007	Sampling Locat	ion: Armory-Der	ning, UT	Received: 08/10/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Are	ea 100 cm²	Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6185-08	Media: Lead Dust Wipe		Vipe	Collected: 08/08/2012
Lab ID: 1222310008	Sampling Location: Armory-Deming, UT		Received: 08/10/2012	
Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm ²		Prepared: 08/14/2012 Analyzed: 08/14/2012	
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6185-09	Med	dia: Lead Dust V	Vipe	Collected: 08/08/2012
Lab ID: 1222310009	Sampling Locat	ion: Armory-Den	ning, UT	Received: 08/10/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Are	ea 100 cm²	Prepared: 08/14/2012 Analyzed: 08/14/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Non-Responsive	Non-Responsive

ANALYTICAL REPORT

Workorder: 34-1222310 Client Project ID: 12U-I6185/Armory-Deming, UT Purchase Order: 12U-I6185 Project Manager: Non-Responsive

Laboratory Contact Information

ALS Environmental 960 W Levoy Drive Salt Lake City, Utah 84123 Phone: (801) 266-7700 Email: alslt.lab@ALSGlobal.com Web: www.alsslc.com

General Lab Comments

The results provided in this report relate only to the items tested. Samples were received in acceptable condition unless otherwise noted. Samples have not been blank corrected unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:		Management of the second second	
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

** No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

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Industrial Hygiene Southwest <u>Violation Inventory Log</u>

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

CONTROL								and the second s	
NUMBER	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS	SUSPENSE		Estimated	DATE	REFERENCES
CLOSED				(Housemont Fran)	DAIE	CICINCOIC	Cost(s)	CORRECTED	
NMDA-090812-4-1	NMDA-080812-4.1 The analytical results for lead on the northeast corner of the drill hall floor was was 200 pg/ft ² .	Deming Armory	Ð	 Clean the floors of the drill hall to a level of less than 40 µg/f² following the guidance in the attached SOPs. Perform post-cleanup wipe sampling to ensure lead levels are within the criterion outlined in the IHSW SOP for Armory Cleanup. 					IHSW SOP Lead. 29 CFR 1910.1025 (h)(1)
NMDA-080812-4,4	NMDA-080812-4.4 An asbestos survey could not be located during this IH Assistance Visit.	Deming Armony	e	Either locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.					29 CFR 1910.1001()(3)()
NMDA-080812-4.4	NMDA-060812-4.4 Personnel have not been provided with asbestos awareness training.	Deming Armory	4	Based on the findings of this survey, provide awareness training to assigned personnel for the specific types of asbestos in this Armory.					29 CFR 1910.1001 or 1101 or AR 40-5
NMDA-050812-4.3	NMDA-080812-4.3 Stained celling tiles are present in the female sleeping quarters on the second floor.	Deming Armony	4	Ensure water Intrusion is examined and leaks are repaired in the female sleeping					Recommended Practice

Summary of Recommendations for NMARNG Armory, Deming, New Mexico

4.1 Lead Wipe Sampling

1. Clean the floors of the drill hall to a lead concentration of less than $40 \ \mu g/ft^2$ following the guidance in the attached SOPs.

2. Perform post-cleanup wipe sampling to ensure lead levels are within the criterion outlined in the IHSW SOP for Armory Cleanup.

4.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

Ensure water intrusion is examined and leaks are repaired in the female sleeping quarters.

4.4 Asbestos Management

1. Locate the asbestos survey report for this building or contract with a licensed firm to perform an asbestos survey and assessment.

 Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

1

Lead

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water.
- Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Waste water containers.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> <u>but check with local Environmental Office</u>.
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- a. Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- b. Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> requirements may be reduced after it has been determined non-hazardous levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not be permitted</u>

Initial Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. <u>Completely clean each room before moving on</u>.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

1. Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

a. Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - a. Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (*Cleaned 2x's Monthly*)
 - c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and **is not a Converted IFR space**, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.



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ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Guam • Hawaii • California • Oregon • Washington • Nevada • Arizona • Idaho • Utah • Wyoming • Montana • New Mexico • Nebraska

Industrial Hygiene Site Assistance Visit

Deming Armory Indoor Firing Range (IFR) 700 S Pearl Deming, NM 88030

10510 Superfortress Avenue, Suite C, Mather, CA 95655

(916) 854-1494

Posted to NGB FOIA Reading Room May, 2018

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DEPARTMENT OF THE ARMY AND AIRFORCE NATIONAL GUARD BUREAU INDUSTRIAL HYGIENE SOUTHWEST 10510 Superfortress Ave, Ste. C Mather, CA 95655

ARNG-CSG-P

13 SEP 2015

on-Respons

MEMORANDUM THRU New Mexico Army National Guard, ATTN: (SOHM), 600 Wyoming Blvd, NE, Albuquerque, NM 87123

FOR Commander, Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM 88030

SUBJECT: Executive Summary for an Industrial Hygiene Site Assistant Visit (IHSAV) for Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM, on 14 OCT 2014.

1. References. See survey report.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an IHSAV was conducted at the Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM on 14 OCT 2014.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations within the attached Industrial Hygienist report. However, IHSW concurs with the observations and findings within the attached Industrial Hygiene report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. General Observations.

a. The data available during this site visit could not confirm the conversion of an IFR space. However, the area located on the north end of the facility identified as "STORAGE" does have similar characteristics to an IFR space.

b. The observations and data collected during this evaluation indicate elevated lead concentrations could be from multiple factors arising from the operations and/or process from the area identified as "STORAGE" which is presumed to previously have been an IFR.

c. Note, the NM ARNG command closed this and several other facilities/areas considered to be IFR's within the state until assessments to identify potential elevated lead concentrations and to employ appropriate control measures ensuring occupant health and property integrity/serviceability could be initiated.

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 565 of 1628

SUBJECT: Executive Summary for an Industrial Hygiene Site Assistant Visit (IHSAV) for Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM, on 14 OCT 2014.

Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. As noted within the attached Industrial Hygiene Report, the elevated lead levels observed within the area identified as "STORAGE," presumed an IFR, could continue to impact the other areas and occupants with elevated lead surface levels if not treated/remediated. (RAC 4)

(1) Recommend treating this space as a CLOSED IFR. As a CLOSED IFR it should be locked with limited access, e.g., maintenance workers, until command decides what classification they will assign the IFR space.

b. Although the lead levels reported are comparatively low to other like spaces observed within the IHSW Region, they do raise concerns regarding origin, depth, and scope for lead levels throughout the other areas of the facility as it relates to elevated lead levels. (RAC 2)

(1) Recommend conducting a Holistic Lead Evaluation of facility to properly and clearly identify the lead impact. This evaluation will provide the command with a clear assessment of areas that potentially could impact the facility and occupants. During this opportunity Hazard Assessments (HA's) for processes involving facility maintenance and repair activities may be developed.

(a) IFR. - Determine status of IFR - Active, In-Active, Converted, Closed. Collect appropriate samples to identify lead levels and identify potential areas/systems that may impact other areas of facility and occupancies. Collect representative sampling of the IFR area.

(b) Source identification and confirmation. Evaluate facility and surrounding environment to validate and identify any and all potential lead sources, i.e. wipe, soil, and air sampling.

(c) HVAC and Air Handling Systems/Equipment. Evaluate Air Handling Equipment to determine lead levels and how elevated lead levels may impact facility, ventilation systems, and occupants. Collect wipe sampling from both upstream and downstream airflows of the air handling equipment to properly identify any elevated lead levels and provide corrective measures.

(d) Facility Air Handling Duct Systems. Evaluate facility air ducting through the collection of wipe sampling at supply and return registers within facility. Include wipe sampling from within duct systems to further clarify elevated lead levels.

(e) Exterior Roof Top areas. Evaluate roof top air handling systems and any ventilation systems identifying any potential lead particulate entry routes into the facility areas, collect representative roof top air and roof top wipe samples to verify lead levels.

(f) Non-Occupied Spaces.

(1) Above ceiling spaces. Evaluate and collect wipe samples of all crawl spaces, plenum areas, and above drop ceilings to determine lead levels and how elevated lead levels may impact facility and occupants. Posted to NGB FOIA Reading Room

May, 2018

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 566 of 1628

ARNG-CSG-P

SUBJECT: Executive Summary for an Industrial Hygiene Site Assistant Visit (IHSAV) for Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM, on 14 OCT 2014.

(2) Below flooring. Evaluate below floor crawl spaces to determine lead levels and methods to remediate if necessary. If the facility does not have these spaces the final evaluation must indicate such.

(3) Plenum areas. Evaluate all plenum spaces to ensure a complete understanding for how these spaces were designed/used for air circulation. These may prove to significantly enhance lead migration throughout the facility.

(g) Occupancy Density and Occupancy Types. Identify owning unit by Unit Identification Code (UIC), co-tenant organizations (include UIC), status of ARNG personnel (AGR, TECH., IDT, State (maintenance), Contract, Civilian, Volunteer(s), youth programs, and any other activities conducted at facility.

(1) Based on occupancies observed, provide notifications and education – Personal Protective Equipment (PPE) usage requirements, routine cleaning methods (general housekeeping), measures personnel should take to protect their health (frequent washing (hands/clothes), eating, drinking, etc.) to all personnel.

(2) Recommend the State ARNG determine what Non-ARNG occupancies should be allowed to occupy or utilize the facility prior to the conclusion of the lead evaluation.

(h) Occupied spaces (wipe sampling and area air sampling). Collect representative wipe samples to identify elevated lead levels and identify any potential areas/systems that may impact other areas of facility and occupancies. This sampling regime should include air sample collection for all spaces persons may enter, to properly identify inhalation hazards.

(i) It is important for the State ARNG take a holistic approach to remove all potential and existing lead hazards from within this facility by treating/remediating all non-occupied, as well as occupied, areas of this facility.

(j) It is important for all remediation activities be followed by post-remediation sampling verification. Recommend an ARNG Industrial Hygiene resource be utilized to verify all postremediation/cleaning activities and are completed IAW the AR, ARNG, and NM ARNG Scope of Work. This will ensure lead levels are acceptable for re-occupancy and all work has been conducted accordingly.

c. Occupant Notifications. It is important for the State ARNG make appropriate notifications to all occupants outlining the potential hazards, measures persons must take to ensure their health, and to outline the State ARNG's plan to remediate (abate) the elevated lead levels within the facility as required by Federal, State, and local laws, regulations, and requirements. At the minimum, the following occupancy groups should be included within the notifications: AGR, IDT personnel, state employees, contract employees, youth program personnel, and all civilians. Note, the attached report may provide co-tenant organizations for inclusion of notifications. Documentation of notifications should be maintained by the facility command for future reference. (reference 29 CFR 1910.1025 as a resource guide)

d. It is important for NM ARNG to determine a classification of this IFR to properly implement the appropriate control measures for continued occupant health and to control lead surface contamination to "as clean as possible," i.e. 40ug/ft², throughout the non-IFR areas of the facility. Also note, given the Posted to NGB FOIA Reading Room May, 2018 FOIA Reading Room Page 567 of 1628

ARNG-CSG-P

SUBJECT: Executive Summary for an Industrial Hygiene Site Assistant Visit (IHSAV) for Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM, on 14 OCT 2014.

IFR status criteria below, the state should identify all IFR's within the state and determine a status for each. The following are provided:

(1) Active IFR. The range is continually used for normal small arms use as long as it is maintained IAW with the criteria outlined in NGR 385-15, Policy and Responsibilities for Inspection, Evaluation and Operation of Army National Guard Indoor Firing Ranges.

(2) Inactive IFR. The range is deactivated and maintained IAW criteria outlined in NGR 385-15, this allows the command to reopen to an Active IFR status to support future small arms usage.

(3) Closed IFR. The IFR is locked with no access and maintained as necessary IAW NGR 385-15. In a Closed status, the range must not be used for any occupancy or any storage. The Closed IFR must remain vacant of all activities until all remediation has been completed and the IFR remediation is certified "complete" by an ARNG Industrial Hygienist (OPM 0690 Series) resource.

(4) Converted IFR. The IFR is converted IAW NG Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges. It is important for the work to convert the IFR be certified by an ARNG Industrial Hygienist (OPM 0690 Series) resource.

e. Medical Surveillance.

(1) The elevated lead concentration on wipe samples levels do suggest the potential for an ingestion hazard remains. Occupants need to take necessary actions, i.e. good hygiene practices like washing prior to eating, drinking, smoking & chewing tobacco etc., be provided the necessary education to ensure their continued health.

(2) It is important for the State Occupational Health, or Medical Service Corp, determine the medical surveillance requirements based on occupancy type and occupancy responsibilities, i.e. administrative personnel, state maintenance workers, contract personnel, civilian population, and personnel who maintain or support IFR operations.

f. Continue the good housekeeping practices within the administrative offices, kitchen, and communal areas to maintain lead particulate concentrations below the ARNG standard of 40ug/ft². Utilize the enclosed Clean-up SOP as a guide to assist with the prevention efforts. Ensure personnel clean-up area(s) and tables after weapons cleaning activities. Tables used for weapons cleaning should be marked, "For Weapons Cleaning Only," when utilized as such. ((DODI 6055.01 Appendix to Enclosure 4, date 14 OCT 2014) (RAC 4)

7. Violation Correction Log.

 a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

(1) Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

(2) Corrective measures should be implemented and accomplished at the lowest levels possible. Hazards and Corrective Measures that cannot be corrected at the facility level, and require assistance Posted to NGB FOIA Reading Room May, 2018 FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 568 of 1628 **SUBJECT**: Executive Summary for an Industrial Hygiene Site Assistant Visit (IHSAV) for Deming Armory Indoor Firing Range (IFR), 700 S Pearl, Deming, NM, on 14 OCT 2014.

9. IHSW recommends the <u>Senior Unit Commander of this Facility and any Co-Tenant Organizations or</u> <u>Units, review and provide assistance with implementation of these recommendations.</u> This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

10. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

11 For additional information please contact the NGB-IHSW office at (916) 854-1491 or via email at



NGB, IHSW, CIV Regional Industrial Hygiene Manager Reference DA FORM 4754 VER: 15 OCT 2009

(-	DEMING IFR, NEW MEXICO 88030	(ICO 88030				
CONTROL NUMBER CLOSED X	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE DATE	ACTION OIC/NCOIC	Estimated Cost(s)	DATE	REFERENCES
NMDA- 10142014-3.1	Elevated Lead Levels observed within the area identified as "Storage Area"	IFR / "Storage Area"	4	Recommend treating this space as a CLOSED IFR. As a CLOSED IFR t should be locked with limited access, e.g., maintenance workers, until command decides what classification they will assign the IFR Space.					Occupational Safety and Health Administration (OSHA) standard for lead: 1910.1025 (h)(1)
				Recommend conducting a Holistic Lead Evaluation of facility to properly and clearly identify the lead impact. This evaluation will provide the command with a clear assessment of areas that					Occupational Safety and Health Administration (OSHA) standard for lead, 1910.1025 (h)(1)
NMDA-10142014- 3.1	Lead levels exceded the minimum requirements.	Facility	N	potentially could impact the facility and occupants. During theis opportunity Hazard Assesments (HA's) for processes involving facility maintenance and repair activites may be developed.					

Industrial Hygiene Southwest

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS Violation Inventory Log

DEMING IFR, NEW MEXICO 88030

Page 1 of 2

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Reference DA FORM 4754 VER: 15 OCT 2009

	LOG OF SCHEDULE	OFCOR		Industrial Hygiene Southwest <u>Violation Inventory Log</u> TIVE ACTION - COMPLIANCE WITH SAF DEMING IFR, NEW MEXICO 88030	Log E WITH SAF (ICO 88030	ETY	AND HE	AND HEALTH STAN	LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS DEMING IFR, NEW MEXICO 88030
CONTROL NUMBER	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE DATE		ACTION OIC/NCOIC	ACTION Estimated OIC/NCOIC Cost(s)	
				Continue the good housekeeping practices within the administrative offices, kitchen, and communal areas to maintain lead particulate concentrations below the ARNG standard of 40ug/ft². Utilize the enclosed Clean-Up SOP as a					DODI 6065.01 Appendix to enclosure 4, date 14OCT 2014. Occupational Safety and Health Administration
1MDA-10142014- 3.1	NMDA-10142014- 3.1 the minimum requirements.	Floor	ط	guide to assist with the prevention efforts. Ensure personnel clean-up area(sP and tables after weapons cleaning activities. Tables used for weapons cleaning should be marked "For Weapons Cleaning Only", when utilized as such.					(OSHA) standard for lead; 1910.1025 (h)(1)

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Posted to NGB FOIA Reading Room May, 2018

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ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> <u>but check with local Environmental Office</u>.
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- a. Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- b. Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> requirements may be reduced after it has been determined non-hazardous levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not be permitted</u>

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - b. Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

1. Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

a. Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - a. Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (*Cleaned 2x's Monthly*)
 - c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and **is not a Converted IFR space**, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.

INDUSTRIAL HYGIENE ASSISTANCE VISIT DEMING ARMORY DEMING, NEW MEXICO



1.0 Introduction and Background

1.1. This report summarizes the results of the Industrial Hygiene (IH) Site Assistant Visit (SAV) conducted at the Deming Armory in Deming, New Mexico on October 14, 2014. The Army National Guard Industrial Hygiene Southwest (ARNG-IHSW) requested Aloha World to visit the Deming Armory to follow-up and evaluate potential high lead. This IH SAV also includes interviews with Non-Responsive from the Department of Military Affairs, regarding industrial hygiene issues as well as any change in operations in the work area that might affect the workers health and safety. Non-Responsive from Aloha World completed this survey.

1.2. The following sections will provide details on how the IH Survey was conducted. A drawing showing the facility layout and sampling locations is included as <u>Attachment D</u>. The most stringent OSHA, ARNG, Corps of Engineers (COE), American National Standards Institute (ANSI), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and Design Guide standards in effect at the time of the survey were used to assess the workplace.

1.3. The Deming Armory is <u>not occupied</u>. This armory was constructed in 1976. This armory has offices that were used for administrative purposes and also contains a drill floor, arms room, classroom, industrial kitchen, storage and a weight room. Maintenance service was done at this site on drill weekend.

1.4 There is a Converted Indoor Firing Range (CIFR) in this facility. The ventilation system, firing lines, lighting and bullet stop have all been removed. Lead samples were taken in the the drill hall and the CIFR. Lead wipe samples results could not be obtained from the time of conversion.

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2.0 Survey Procedures and Equipment Used

Lead wipe samples were collected on dusty horizontal floor surfaces in the facility including but not limited to the drill floor and the CIFR area (old maintenance bay, storage and weight room). "Ghost Wipe" brand wipes was used with a 16 square inch template. The wipes used conform to American Standards for Testing Materials E1792-96A, *Standard Specification for Wipe Sampling Materials for Lead in Surface Dust*. The collected wipe samples were placed in clean, labeled centrifuge tubes. Samples were submitted to Reservoir Environmental Services, Inc for analysis via Flame Atomic Absorption, USEPA Method SW846 3050B. Laboratory results are listed in micrograms of lead per square foot (μ g/ft2). Copies of the raw analytical data are presented in **Appendix D**.

Samples were submitted to Reservoir Environmental Services, Inc, Denver, Colorado, for analysis via Flame Atomic Absorption.

3.0. Findings and Recommendations

3.1. Lead wipe sampling- Analytical results from the lead wipe sampling obtained from the armory are found in Table 3.1.A. A graphical and written representation of sampling locations can be found in <u>Appendix D</u> along with analytical reports. Photographs were taken of each sample point and are presented in <u>Appendix C</u>. There are currently no standards that dictate what a safe level of lead is from a wipe sample. Lead sampling results can be compared to the protocol outlined in the U.S. Department of Housing and Urban Development's (HUD's) *Guidelines For The Evaluation And Control Of Lead-Based Paint Hazards In Housing*, June 1997. HUD currently recommends an exposure limit of 40 ug/ft². This guideline was established to prevent lead exposure to children in domestic homes, along with females who are pregnant. Areas that have levels that exceed 40 ug/ft² should be thoroughly cleaned and employees that may come into contact with those areas should be properly trained in the hazards of lead exposure.

Aloha World

Sample ID	AREA	Photo #	Result ug/ft2
101214-1	Control	NA	BDL
101214-2	North drill hall	2	44.5
101214-3	Center drill hall	3	BDL
101214-4	South drill hall	4	BDL
101214-5	West drill hall	5	BDL
101214-6	East drill hall	6	BDL
101214-7	North CFR	7	40.0
101214-8	Center CFR	8	22.7
101214-9	South CFR	9	BDL
101214-10	West CFR	10	46.4
101214-11	East CFR	11	BDL

Table 3.1.A. Lead Wipe

BDL= Below Detection Limits

ug/ ft2= Micrograms per Square Foot

<u>NOTE</u>: Adequate cleaning should be continued throughout the armory, especially in the areas were high lead levels were found. Please utilize the attached SOP and general information paper provided for cleaning procedures.

Recommendation: Dry sweeping should be restricted in areas where accumulations of dust are present to prevent toxic metals on surfaces from becoming airborne. The cleaning of loose material from horizontal surfaces should be conducted with HEPA (High Efficiency Particulate Air) vacuums and/or wet mopping. Any area that exceeds 40 ug/ft 2 should be thoroughly decontaminated.

3.2. Operational Changes Noted- None found.

3.3. Physical Safety and Condition of Facility- A physical walk through of the facility was conducted. Overall, housekeeping was found to be in above average condition.

This 1976 building is of concrete block and brick construction. Water leakage was detected in the roof. They have had previous issues with the roof leaking and it was recently fixed. However, there was roof leak found again. John Ridgway, from DMA, is currently getting this resolved.

Recommendation: Check ceiling for water leakage.

A fire evacuation plan was not posted throughout the armory.

The fire extinguishers within this facility are part of the fire suppression available and should be tested annually and inspected monthly. NFPA 10, 27-3.4.1 addresses alarm systems and 29 CFR 1910.157 addresses inspection requirements for fire extinguishers. Annual inspections should be accomplished by a qualified organization, e.g., fire department, and checked and documented

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monthly by the facilities personnel. The fire extinguishers were found to be current on annual and monthly inspections. A fire alarm system is in place and per from DMA, in working order.

3.4 Recurring Events: We were unable to obtain any previous surveys for this armory.

4.0 Industrial Hygienist Certification/Project Limitations

All Industrial Hygiene Assessment techniques and tests used in the Industrial Hygiene survey of the Army National Guard Armories were reviewed by Non-Responsive Industrial Hygiene Southwest, National Guard Bureau at (916) 854-1492

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, Aloha World's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. Aloha World assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of Aloha World, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since Aloha World is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action

5.0. Technical Assistance For technical assistance regarding information found in this report or the performed survey, please contact Non-Responsive of the Southwest Regional Industrial Hygiene Office, (916) 854-1491. Contact the State Safety, State Industrial Hygiene and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations are needed.



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Appendix A References

American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23 Edition, 1998.

American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices for 1998.

 American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting 1991.

American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment 1998.

AR 40-5, Preventative Medicine, 15 October 1990.

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

Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems, May 1984.

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation, 27 August 1991.

National Safety Council, Fundamentals of Industrial Hygiene, 4~ edition, 1996.

NOR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

TB MED 503, The Army Industrial Hygiene Program, February 1985.

TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1910, Occupational Safety and Health Standards

Aloha World

Recommendations

1. Occupational Safety and Health Administration (OSHA) standard for lead; 1910.1025 (h) (1) require that all surfaces shall be maintained as free as practicable of accumulations of lead. Dry sweeping should be restricted in areas where accumulations of dust are present to prevent toxic metals on surfaces from becoming airborne. The cleaning of loose material from horizontal surfaces should be conducted with HEPA (High Efficiency Particulate Air) vacuums and/or wet mopping. Any area that exceeds 40 ug/ ft2 should be thoroughly decontaminated.

2. Fix water leaks on the roof. OSHA requires that safeguards designed to protect employees during an emergency, including displaced ceiling tile, must be in proper working order at all times. General Duty Clause 5(a)(1).

Aloha World

Photo Log

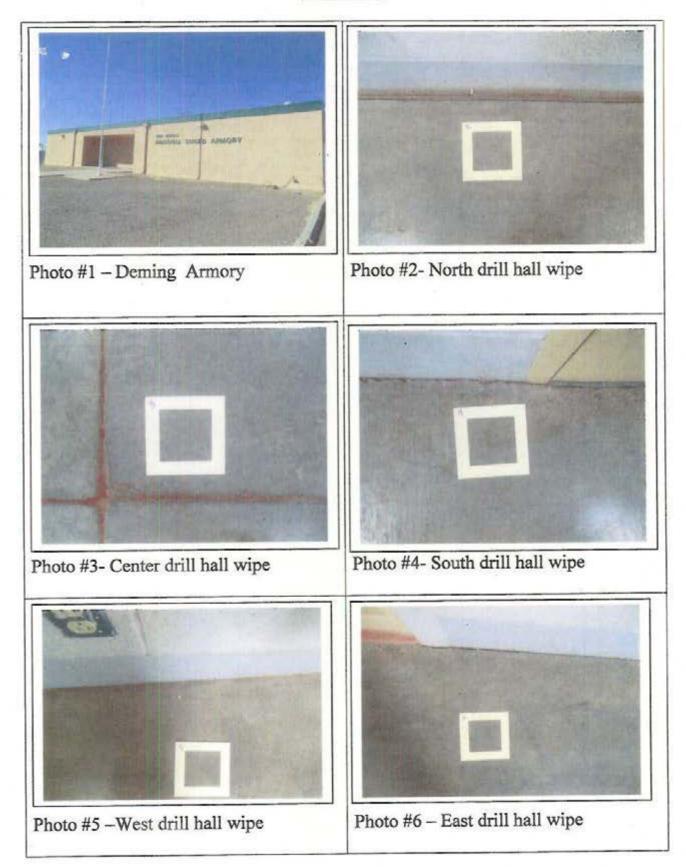


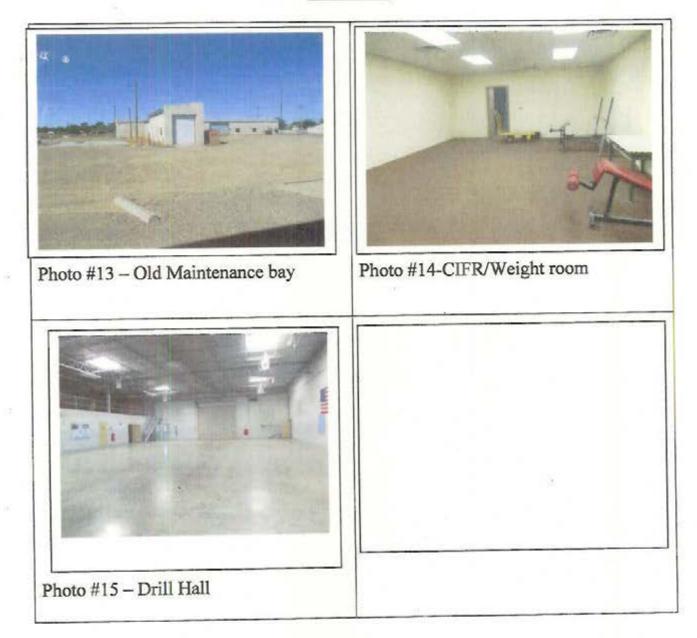
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Photo Log



2018

RESERVOIRS ENVIRONMENTAL, INC. 5801 Logan St., Suite 100 Denver CO 80216

G TABLE

ANALYSIS:

LEAD BY WIPE SAMPLING

RES Job Number:	RES 303551-1
Client:	Aloha World
Client Project Number / P.O.:	101214
Client Project Description:	Deming Armory
Date Samples Received:	October 21, 2014
Analysis Type:	USEPA SW846 3050B / AA (7420)
Turnaround:	3-5 Day
Date Samples Analyzed:	October 27, 2014

Client ID Number	Lab ID N	lumber	Sample Area (sq.ft.)	LEAD (µg)	Reporting Limit (µg/ft ²)	LEAD CONCENTRATION (µg/ft ²)
101214-1	EM	1280877	0.11	BRL	22.7	BRL
101214-2	EM	1280878	0.11	4.9	22.7	44.5
101214-3	EM	1280879	0.11	BRL	22.7	BRL
101214-4	EM	1280880	0.11	BRL	22.7	BRL
101214-5	EM	1280881	0.11	BRL	22.7	BRL
101214-6	EM	1280882	0.11	BRL	22.7	BRL
101214-7	EM	1280883	0.11	4.4	22.7	40.0
101214-8	EM	1280884	0.11	2.5	22.7	22.7
101214-9	EM	1280885	0.11	BRL	22.7	BRL
101214-10	EM	1280886	0.11	5.1	22.7	46.4
101214-11	EM	1280887	0.11	BRL	22.7	BRL

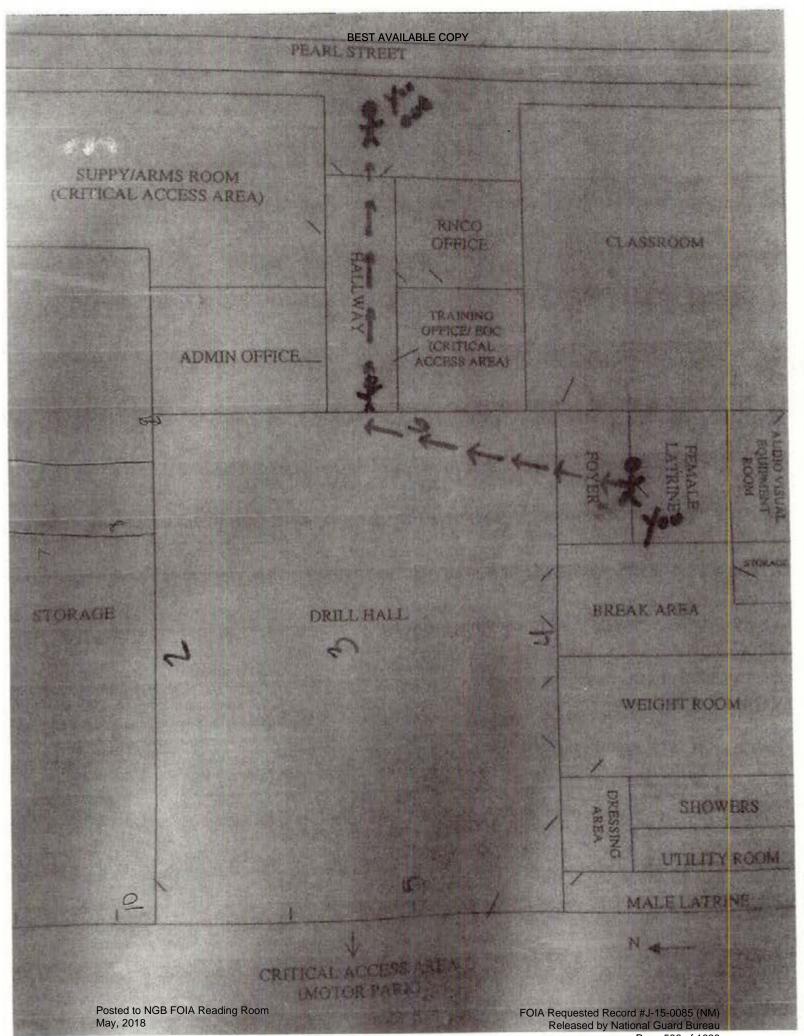
*Calculations Based On A 1 sq.ft. Sample Area Unless Otherwise Noted

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.



BRL = Below Reporting Limit

P: 303-964-1986 Posted to NGB FOIA Reading Room May, 2018 5801 Logan Street, Suite 100 Denver, CO 80216 BEST AVAILABLE COPY Page 2 of 2 FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 585 of 1628



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Industrial Hygiene Southwest

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS Violation Inventory Log

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REFERENCES	Occupational Safety and Health Administration (OSHA) standard for lead; 1910.1025 (h)(1)
DATE CORRECTED	
Estimated Cost(s)	a la companya de la c
ACTION OIC/NCOIC	
SUSPENSE DATE	
CORRECTIVE ACTIONS (Abatement Plan)	Occupational Safety and Health Administration (OSHA) standard for lead: 1910.1025 (h)(1) require that all surfaces shall be maintained as free as practicable of accumulations of lead. Any area that exceeds 40 ug/ ft2 should be thoroughly decontaminated. Utilize Clean- Up SOP provided in this report for future cleaning episodes.
RAC	4
SITE	Armory
HAZARD DESCRIPTION	3.1 Minimun requirements 3.1 minimun requirements
CONTROL	0.005E0 1x1 3.1 3.1

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ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Guam + Hawaii + California + Oregon + Washington + Nevada + Arizona + Islaho + Utah + Wyoming + Montana + New Mexico + Nebraska

Industrial Hygiene Site Assistance Visit

Espanola Armory 2011 Industrial Park Road Espanola, NM 87532

10510 Superfortress Avenue, Suite C, Mather, CA 95655 (916) 854-1491

Posted to NGB FOIA Reading Room May, 2018

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DEPARTMENT OF THE ARMY AND AIRFORCE NATIONAL GUARD BUREAU INDUSTRIAL HYGIENE SOUTHWEST 10510 Superfortress Ave, Ste. C Mather, CA 95655

ARNG-CSG-IHSW

5 December 2012

MEMORANDUM THRU New Mexico Army National Guard, Deputy State Surgeon (DSS), 600 Wyoming Blvd NE, Albuquerque, NM 87123

FOR Commander, Espanola Armory 2011 Industrial Park Road, Espanola, New Mexico 87532

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Espanola Armory 2011 Industrial Park Road, NM conducted on 07 August 2012.

1. References. See survey report.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an Industrial Hygiene Site Assistance Visit and cursory review of safety related items and programs was conducted at the Espanola Armory 2011 Industrial Park Rd., Espanola, NM on 07 AUG 2012.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations in the contractor report (reference Attachment II). However, IHSW concurs with the observations and findings within the attached contractor report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. Commendable.

The facility personnel were helpful during this SAV.

5. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. Make sure all monthly fire extinguisher inspections are completed and documented on the fire extinguisher tag. (para. 4.10.3) (RAC 4)

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ARNG-CSG-IHSW

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Espanola Armory 2011 Industrial Park Road, NM conducted on 07 August 2012.

 b. Locate the asbestos survey for this building or contract to have a licensed firm to perform an asbestos survey and assessment. This should be part of the NM ARNG Asbestos Management Plan. (para: 4.4.1) (RAC 3)

c. Upgrade the exhaust duct fan velocity, on west wall in the kitchen, to at least 500 fpm. (para.
 4.8) (RAC 4)

d. Provide personnel with asbestos awareness training to help prevent them from contaminating others, the building or themselves. (para. 4.4.2) (RAC 4)

6. Violation Correction Log.

 a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

 Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

Corrective measures should be implemented and accomplished at the lowest levels possible.
 Hazards and Corrective Measures that cannot be corrected at the facility level, and require assistance from higher headquarters or from the state level, should be elevated to the Quarterly State/BN Safety Council Meeting for resolution.

 Recommend a representative from the facility attend all quarterly/monthly meetings to ensure the appropriate emphasis and corrective actions are followed for hazard resolution and abatement of the observations made during this visit.

 Retain entries of the items corrected, or closed, for future reference. This may be accomplished by posting completed items within the Corrected Hazard Sheet portion of the Excel Violation Correction Log Workbook we've provided.

 The preferred method to document and track identified hazards for resolution is for their entry into the Reserve Component Automation System – Safety and Occupational Health (RCAS-SOH) Program.

 b. IHSW recommends further program refinement through written documentation for standardized guidance to the personnel performing the processes. Conducting Hazard Assessments consistent with 29 Code of Federal Regulations (CFR) 1910.132, General Requirements for Personal Protective Equipment and AR 40-5, Preventive Medicine, would provide this continued program refinement.

7. Hazard Assessment/Job Safety Analysis (JSA).

 a. Documenting the Hazard Assessments provides a method to obtain initial and periodic review from the Industrial Hygiene, Occupational Health and Safety Professions located at the JFHQ/HQ/state level.

b. The Hazard Assessments should be used as written training materials for the new, transfer and unit personnel working under the auspice of the facility.

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ARNG-CSG-IHSW

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Espanola Armory 2011 Industrial Park Road, NM conducted on 07 August 2012.

c. IHSW recommends facility supervisory staff and facility personnel conduct initial Hazard Assessments outlined in AR 40-5, Army Preventive Medicine (Section V) and 29 CFR 1910.132 and submit for review and obtain approval from the state Industrial Hygiene, Occupational Health and Safety Professions.

d. We have provided an appendix with Hazard Assessments (HA) examples of some of this facilities operations. Additional operations can utilize this format to design HA not observed during this SAV.

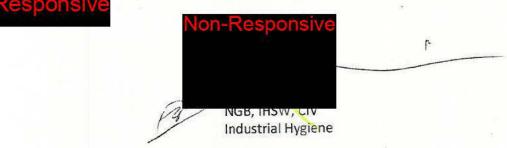
e. An integral and important factor of the Hazard Assessment/JSA process is for the review and guidance from qualified Safety, Occupational Health and Industrial Hygiene professions located at the higher headquarters level or state level. For this reason, the Hazard Assessments (to include all pertinent and supporting documents) should be completed by the facility personnel and forward to the New Mexico Army National Guard Industrial Hygiene, Occupational Health and Safety Office for final review and approval (signature).

f. Job Safety Analysis (JSA's)/Hazard Assessments.

NOTE: The Hazard Assessments can be used for monthly meetings to brief/train, and document large group training events and activities.

8. IHSW recommends the Senior Unit Commander of this Facility and any Co-Tenant Organizations or Units, review and provide assistance with implementation of these recommendations. This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

9. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.



10 For additional information please contact the undersigned at (916) 854-1491 or via email at

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SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS Industrial Hygiene Southwest Violation Inventory Log

Espanola Armory, New Mexico

	KEFEKENCES		29 CFR 1910,1001(j)(3)(i)	29 CFR 1910.1001(j)(3)(iii)	Uniform Fire Code 79.201	NFPA, Standard 96, Section 8.2.1.1 (2011)	29 CFR 1910.157 (e) (2)	Recommended Practice
DATE	CORRECTED			4			×	
Estimated	Cost(s)						×	
ACTION	OIC/NCOIC							
SUSPENSE	DATE				N.		× ,	
CORRECTIVE ACTIONS	(Abatement Plan)		Either locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.	Based on the findings of this survey, provide awareness training to assigned personnel for the specific types of asbestos in this Armory.	Mark the storage cabinet as follows: "Flammable-Keep Fire Away."	Upgrade the duct velocity of the kitchen exhaust fan to al least 500 fpm.	Perform and document monthly inspections on all fire extinguishers in the facility.	Repair the emergency eyewash/shower in the maintenance bay.
	RAC		. ന	4	4	4	4	4
	SITE		Espanola Armory	Espanola Armory	POL Room	Scullery and Kitchen	Espanola Armory	Maintenance Bay
	HAZARD DESCRIPTION		An asbestos survey could not be located during this IH Assistance Visit.	Personnel have not been provided with asbestos awareness training.	The flammable cabinet is not marked with the OSHA mandated warning label.	The exhaust fan located along the west wall of the scullery and the kitchen exhaust fan did not have estimated duct velocities at a minimum of 500 fpm.	EA-080712- 4.10.3 Fire extinguishers are strategically located throughout the armory. However, monthly inspections on all of the extinguishers were not current.	EA-080712- 4.10.4 There is one emergency eyewash/shower located in the motor pool bay. This device was reported to be functional but leaking; as such, its use has been restricted with
CONTROL	NUMBER	CLOSED	EA-080712- 4.4.1	EA-080712- 4.4.2	EA-080712-4.6.2	EA-080712-4:8	EA-080712- 4.10.3	EA-080712- 4.10.4

Reference DA FORM 4754 VER: 15 OCT 2009

barriers.

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Industrial Hygiene Southwest	Violation Inventory Log	LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS	Espanola Armory, New Mexico
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CONTROL				CORRECTIVE ACTIONS	SUSPENSE ACTION Estimated	ACTION	Estimated	DATE	RFFFRENCES
NUMBER	HAZARD DESCRIPTION	SITE	RAC	(Abatement Plan)	DATE	OIC/NCOIC	Cost(s)	OIC/NCOIC Cost(s) CORRECTED	14 m.
CLOSED									0 18/17/000 0101
EA-080712-4.10.7	EA.080712-4.10.7 There are no ground fault	1.		Install GFCI receptacles for all					NEPA 70. Article
	circuit interrupter (GFCI)	Scullen and	-	outlets located within six reet of					210-8
C	installed on the outlets within	Kitchen	4	a water source.					2
	six feet of water sources in the	Internet							
	scullery and kitchen.	The second secon							

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- Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- b. Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> requirements may be reduced after it has been determined non-hazardous levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not be permitted</u>

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only -after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

1. Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

a. Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - a. Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (Cleaned 2x's Monthly)
 - Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and **is not a Converted IFR space**, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.



IH ASSISTANCE VISIT

New Mexico Army National Guard Espanola Armory 2011 Industrial Park Road Espanola, New Mexico

November 20, 2012

Prepared for:

Industrial Hygiene Southwest 10510 Superfortress Avenue, Suite C Mather, California 95655

Prepared by:



Reviewed by:



Industrial Hygiene Services Manager

Project #AL127261

640 EAST WILMINGTON AVENUE SALT LAKE CITY, UT 84106

SALT LAKE CITY

EMERYVILLE

TELEPHONE: 801-466-2223 PHOENIX FAX: 801-466-9616 DENVER E-MAIL: IHI@IHI-ENV.COM

SEATTLE

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EXECUTIVE SUMMARY

On August 7, 2012, Non-Responsive PH, an Industrial Hygienist with IHI Environmental (IHI), conducted an IH Assistance Visit at the New Mexico Army National Guard Espanola Armory located at 2011 Industrial Park Road in Espanola, New Mexico. The primary point of contact for information gathered during this survey wa

Non-Responsive

The objectives of this IH Assistance Visit were to perform the following activities:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system, and collect indoor air quality data;
- review hazardous material storage and use procedures;
- review safety training and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

Significant findings for this IH Assistance Visit can be found in the Industrial Hygiene Southwest – Violation Inventory Log located in Appendix K of this report.

The report that follows this Executive Summary should be read in its entirety because it includes important information not included in this summary, such as task descriptions, work space locations, regulatory requirements, and additional recommendations.

IH Assistance Visit NMARNG – Espanola Armory Executive Summary

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1.0 INTRODUCTION

On August 7, 2012, Non-Responsive MPH, an Industrial Hygienist with IHI Environmental (IHI), conducted an IH Assistance Visit at the New Mexico Army National Guard Espanola Armory located at 2011 Industrial Park Road in Espanola, New Mexico. The primary point of contact for information gathered during this survey was

von-Responsive

1.1 Objectives

The objective of the IH Assistance survey is to evaluate the occupational environment of the administrative areas in the armory to determine the presence of operational health and safety risks, and make recommendations for corrective actions or follow-up work to manage those risks.

1.2 Scope of Work

To achieve the above objectives at this facility, the survey included the following work:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system and collect indoor air quality data;
- · review hazardous material storage and use procedures;
- review safety training, and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

2.0 PROCESS DESCRIPTION

The Espanola Armory has two full-time guard members. The armory contains administrative offices, a recruiting center, training facilities, a drill floor, storage rooms, a locker room, and a motor pool bay. There are no civilian employees at this armory. Civilians use the

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 601 of 1628 Espanola Armory for VA meetings, for celebratory and commemorative occasions, and to visit the recruiter's office.

Army National Guard members occasionally use the orderly room and the supply room as staging areas to clean weapons. The Department of Military Affairs, Maintenance Division, conducts regular maintenance of the building.

3.0 METHODS AND APPLICABLE REGULATIONS AND STANDARDS

3.1 Lead Wipe Sampling

Lead residue (dust) wipe samples were collected on horizontal surfaces, such as the drill floor, kitchen, administrative areas, and indoor firing ranges (where present), to determine housekeeping standards. Lead Wipe[™] brand wipes were used with a 100-square-centimeter template. The wipes used conform to American Standards for Testing Materials E1792, Standard Specification for Wipe Sampling Materials for Lead in Surface Dust. The collected wipe samples were placed in clean and labeled plastic containers. Samples were submitted to ALS Laboratories for analysis, using NIOSH Method 7300. See Appendix I for sample locations and Appendix J for laboratory results.

The Mather, California, office of Industrial Hygiene Southwest has developed a Standard Operating Procedure (SOP) for lead, which is a blend of OSHA, HUD, and Army regulations. Essentially, this SOP sets forth a criterion of 40 micrograms per square foot (µg/ft²) for converted indoor firing ranges, break rooms, floor surfaces, or any area that might be used for non-military functions. Additionally, a 200-µg/ft² criterion has been established for tool rooms, maintenance bays, furnace rooms, boiler rooms, storage closets, and other areas where general public access is not expected.

3.2 Painted Surface Evaluation

The interior of the armory was visually inspected for peeling paint on the walls and ceilings.

3.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

The interior of the armory was visually inspected for signs of moisture intrusion that could result in fungal growth. Any signs of moisture intrusion (e.g., discoloration, staining, blistering) were noted and documented on a drawing for a follow-up evaluation.

3.4 Asbestos Management

Armory personnel were asked if an asbestos survey and assessment had been conducted and whether there was a written Operations and Maintenance Program for the facility. IHI also reviewed any asbestos awareness training records.

3.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

An evaluation of the heating, ventilation, and air-conditioning (HVAC) systems that serve the armory was accomplished. This evaluation consisted of a visual inspection of the system to note any obvious problems, and a review of the facility maintenance plan, if one is available.

Carbon dioxide (CO₂), temperature, and relative humidity were measured throughout the armory using a TSI Model 7565-X Q-Trak[™] IAQ Monitor. The unit was calibrated before use with certified zero gas and 1,000-ppm CO₂ span gas. See Appendix E for IAQ data.

Carbon dioxide is a normal constituent of exhaled breath and is commonly measured as a screening tool to evaluate whether adequate fresh, outdoor air are being provided. If typical CO₂ levels within a building are maintained at or less than 1,000 ppm, with appropriate temperature and humidity levels, complaints about indoor air quality should be minimized (American Society for Testing and Material (ASTM) – International D6245-12, Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality). If a building exceeds this guideline, it should not be interpreted as an unhealthy or hazardous situation. An elevated CO₂ level is only an indication that the amount of outside air being brought into a building may be inadequate or poorly distributed and further investigation may be warranted.

In building areas where there are potential sources of CO₂ other than exhaled breath, the guidelines above cannot be used. The Occupational Safety and Health Administration (OSHA) standard for CO₂ should be used in these instances. The OSHA standard is an eight-hour time-weighted average (TWA) of 5,000 ppm with a short-term 15-minute average limit of 30,000 ppm.

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3.6 Hazard Communication and Hazardous Material Storage

A review of the armory's chemical inventory and Material Safety Data Sheet (MSDS) file was accomplished. Chemical storage areas, i.e., flammable storage cabinets/rooms, were also inspected.

3.7 Safety Training and Record Keeping

An inspection of safety training programs and documentation was performed to determine if the armory's site-specific training programs and annual documentation were current.

3.8 Kitchen Ventilation Survey

Duct velocity measurements are performed on facility kitchen exhaust hoods (when present) using a TSI VelociCalc, Model 9515.

The 2011 National Fire Protection Association Standard 96, Section 8.2.1.1 requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 feet per minute (fpm).

3.9 Kitchen Appliance Sound-Level Measurements

Sound-pressure-levels of the kitchen appliances (when present) are measured using an MSA Type-2 Sound Level Meter in the dBA and dBC ranges, with the meter set on slow response. DD Forms 2214 are provided in Appendix M.

3.10 General Safety Walk-Through

A limited Fire Life Safety Code walk-through evaluation of the armory was performed to

- · document the presence of a fire alarm,
- determine if fire extinguishers are properly mounted and current on their monthly and annual inspections,
- · determine if eyewash station inspections are current, and
- · document any fire or safety hazards in the armory.

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3.11 Equipment Used

Туре	Model Number	Serial Number	Calibration Date
TSI VelociCalc TM	9515	T95151103007	05/03/2012
TSI Q-Trak™	7565-X	7565X 0812016	11/15/2011
MSA® Sound Level Meter Type II	Type 2	00035	02/10/2012

The following equipment was used for this survey.

The calibration certificates for the equipment are attached in Appendix H.

3.12 Quality Assurance

IHI employs, at a minimum, the following methods to help assure quality of field

investigations and reports:

- · Use of appropriately educated and experienced personnel;
- Documentation of pertinent field and sampling information
- Continuing education of technical personnel through attendance at training sessions and conferences, and literature review;
- Peer and supervisory review of sampling strategy, field methods, calculations, and reports;
- Strict adherence to method requirements, in particular to NIOSH and OSHA, standard methods, including strict chain-of-custody protocol;
- Use of accredited laboratories, or, in cases where specific accreditation is not available, choice of laboratories of good reputation, having strong QA/QC programs.
- Calibration of instruments, including field calibration via manufacturers' recommended procedures and routine (typically annual) off-site calibration of equipment via certified third parties.

4.0 FINDINGS AND RECOMMENDATIONS

4.1 Lead Wipe Sampling

Analytical results for lead wipe sampling indicate all locations were below the analytical criterion outlined in the IHSW SOP. See Appendix I for a data table and a drawing showing sample locations and Appendix J for the laboratory reports. Photographs were taken of each sampling point and are presented in Appendix C.

Recommendation

None

4.2 Painted Surface Evaluation

There was no peeling paint noted in the surveyed areas within the Espanola Armory.

Recommendation

None

4.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

Water-damaged ceiling tiles were noted in the north classroom and the southeast office; however, no fungal growth was observed.

Recommendation

None

4.4 Asbestos Management

An asbestos survey could not be located during this visit and personnel have not been provided with asbestos awareness training.

Recommendations

 Locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.

Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

The HVAC system servicing the armory consists of three Sterling[®] gas-fired packaged heating and cooling units, as well as, three Carrier[®] air-conditioning units mounted on the roof. The air-conditioning units provide filtered air.

The average outdoor CO_2 concentration at the time of the survey was 370 ppm. The highest CO_2 concentration measured inside the building was 461 ppm, which is unlikely to result in indoor air quality complaints.

Building air temperatures ranged from about 68.8°F to 74.5°F and relative humidity was between 36.4% and 56.4% during the survey period. Air temperatures were within the recommended comfort range of 68.0°F to 75.0°F and the relative humidity was also within than the recommended comfort range of between 30% and 60%. Humidity levels above 60% can result in proliferation of bacteria and fungi, while levels below 30% can cause dry eyes, skin, and mucous membranes.

The Department of Military Affairs, Maintenance Division maintains all HVAC units in the armory.

Recommendation

None

4.6 Hazard Communication and Hazardous Material Storage

4.6.1 Hazardous Materials Inventory and Material Safety Data Sheets (MSDS)

Inventories of all hazardous materials used by the armory along with their associated MSDSs are maintained in a master binder located in the foyer. There are also chemical inventories and MSDS binders located in the flammable materials storage room and the chemical storage room adjacent to the foyer. An inspection of the chemical inventory revealed that current products in use by the armory are all accounted for and their associated MSDSs are available.

Copies of chemical inventories are provided in Appendix D.

Recommendation

None

4.6.2 Flammable Storage Cabinets

There is one storage cabinet located in the Petroleum and Other Lubricants (POL) room.

The cabinet was inspected, and no storage incompatibilities or leaking materials were found; however, the cabinet is not marked with a Flammable Materials Caution sign. The cabinet was in good condition and all doors were noted to close properly.

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Recommendation

1. Mark the storage cabinet as follows : "Flammable-Keep Fire Away."

4.7 Safety Training and Record Keeping

The following safety documentation is maintained in the Espanola Armory:

- Army National Guard Safety Program: AGONM 385-10
- Army Safety Program: AR 385-10
- Safety Program Management Training Material
- Emergency Action Plan
- Safety SOP with references to various army regulations

The following safety training documentation is maintained in the Espanola Armory:

- Risk Management
- Heat and Cold Stress
- Safety Briefing
- Army Traffic Safety Program, Accident Avoidance Course

The last Safety Council Meeting was held on March 8, 2012. In addition, the NMARNG has numerous required computer based training courses with reference to safety training.

Note: IHI did not conduct a thorough evaluation of the contents or quality of any of the documents identified during this visit.

Recommendation

None

4.8 Kitchen Ventilation Survey

The kitchen houses one exhaust ventilation hood located over the stove/oven along the north wall. The exhaust fan for this hood is located on the roof. Duct velocity measurements could not be obtained from the interior of the exhaust duct. Therefore, the duct velocity was calculated indirectly (estimated) by using the face velocity readings from the face of the hood, the area dimensions of the hood face, and the diameter of the exhaust duct. The average estimated duct velocity is: 241 fpm, which does not meet the NFPA recommended minimum of 500 fpm.

Recommendation

1. Upgrade the kitchen exhaust ventilation hood duct velocity to at least 500 fpm.

4.9 Kitchen Appliance Sound-Level Measurements

Sound-level measurements were recorded for the following kitchen appliances:

- Scotsman® ice machine
- RTF manufacturing® refrigerator
- True® refrigerator
- -McCall® refrigerator
- -Exhaust hood serving the stove/oven
- -Exhaust hood serving the dish washer
- Exhaust hood serving the sink

The garbage disposal, mixer, and dishwasher were not evaluated because they were nonoperational on the day of the survey.

All operational equipment produced measured noise levels below 85 dBA and are not considered hazardous noise-producing equipment.

Recommendation

None

4.10 General Safety Walk-Through

1. Housekeeping throughout the facility was fair.

2. There is a fire alarm in this facility maintained b facilities.

3. Fire extinguishers are strategically located throughout the armory. However, monthly inspections on all of the extinguishers were not current.

4. There is one emergency eyewash/shower located in the motor pool bay. This device was reported to be functional but leaking; as such, its use has been restricted with barriers.

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5. Fire evacuation routes are posted in most rooms of this armory.

6. Electrical panel boxes were inspected and were found to contain no exposed wiring or openings in the panel.

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rom state

7. There are no ground fault circuit interrupter (GFCI) installed on the outlets within six feet of water sources in the scullery and kitchen.

Recommendations

- 1. Perform and document monthly inspections on all fire extinguishers in the facility.
- 2. Repair the emergency eyewash/shower in the motor pool.
- 3. Install GFCI receptacles for all outlets located within six feet of a water source.

6.0 PROJECT LIMITATIONS

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, IHI's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. IHI assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of IHI, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since IHI is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

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7.0 PROJECT APPROVAL

This IH Assistance Visit was reviewed and approved by:

Non-Responsive

Nov. 20, 2012 Date

Industrial Hygiene Services Manager

Technical Assistance: For technical assistance regarding information found in this report or the performed survey, please contact **Non-Responsive** at 801-466-2223, or **Non-Responsive** the Southwest Regional Industrial Hygiene Office at 916-804-1707.

Contact the State Safety and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations are needed.

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Appendix A

References

- American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice
- American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices
- American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting.
- American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment
- AR 40-5, Preventative Medicine
- AR 40-10, Appendix B Health Hazard Assessment Program in Support of Army Material Acquisition Decision Process
- AR 385-10, The Army Safety Program
- Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation.

National Safety Council, Fundamentals of Industrial Hygiene

NOR 385-10, Army National Guard Safety and Occupational Health Program

- TB MED 503, The Army Industrial Hygiene Program
- TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide
- TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997
- Title 29, Code of Federal Regulations (CFR), 2011, revision Part 1910, Occupational Safety and Health Standards

Appendix B

Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in 29 CFR 1910, ACGIH Industrial Ventilation Manual, and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD¬1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling was conducted in compliance with applicable NIOSH Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL).

Occupational Safety and Health Administration (OSHA)

OSHA has established Permissible Exposure Limits (PELs) for workplace toxic and hazardous substances listed in 29 CFR 1910.1000 Table Z-1. Most OSHA PELs are based on 8-hour time weighted averages (TWAs); when sampling periods differ from 8 hours, the result must first be converted to an 8-hour TWA before comparing it to the OSHA PEL. Some OSHA PELs are based on Short Term Exposures Limits (STEL) of 15 minutes of worst case exposure or Ceiling Limits of worst case peak exposures (sampled as a 15 minute exposure if direct-reading methods are not available).

OSHA regulations are legally enforceable. Employers are required to maintain employee exposures below PELs. The best practice is to eliminate hazards and use safer substitutes. Alternatively, engineering and/or administrative (work practice) controls may reduce exposures to acceptable levels. Personal protective equipment should be the solution of last resort, implemented after all other efforts to eliminate the hazard have been exhausted or deemed infeasible. OSHA 29 CFR 1910.134 covers the use of respiratory protection in the work place.

American Conference of Governmental Industrial Hygienists (ACGIH)

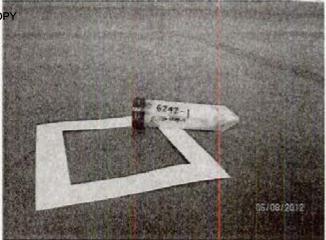
Unlike the OSHA PELs, the ACGIH TLVs are not consensus standards; however, TLVs represent a scientific opinion based on a review of existing peer-reviewed scientific literature by committees of experts in public health and related sciences.

Occupational Exposure Limit

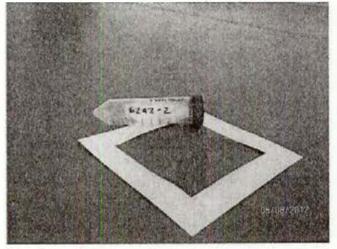
In accordance with the Department of the Army (DA) Pamphlet 40-503, Industrial Hygiene Program (DA PAM 40-503), "The DA mandates the use of ACGIH TLVs when they are more stringent than OSHA regulations or when there is no PEL." The DA defines the resulting exposure limit as the Occupational Exposure Limit (OEL).



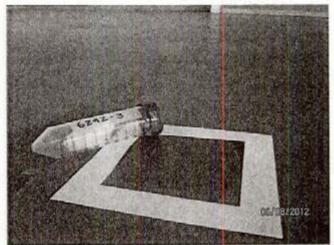
Photograph 1 View of Espanola drill hall



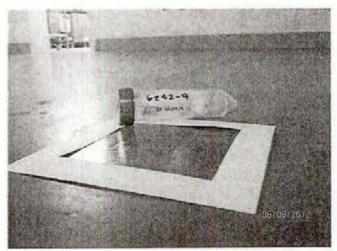
Photograph 2 Wipe sample location 6242-1



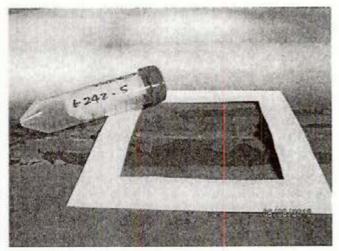
Photograph 3 Wipe sample location 6242-2



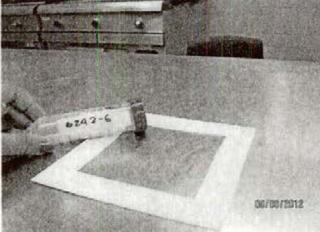
Photograph 4 Wipe sample location 6242-3



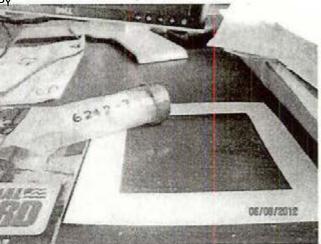
Photograph 5 Wipe sample location 6242-4



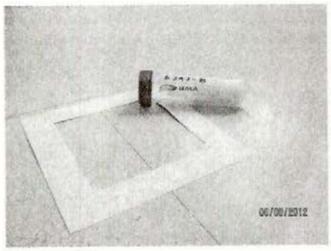
Photograph 6 Wipe sample location 6242-5



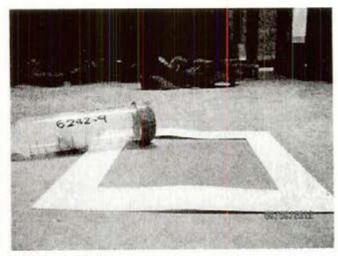
Photograph 7 Wipe sample location 6242-6



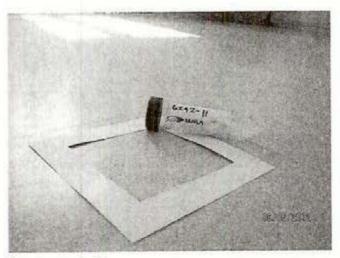
Photograph 8 Wipe sample location 6242-7



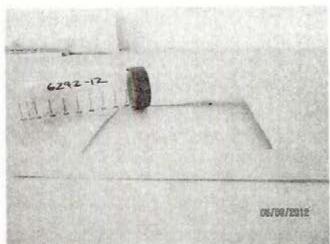
Photograph 9 Wipe sample location 6242-8



Photograph 10 Wipe sample location 6242-9



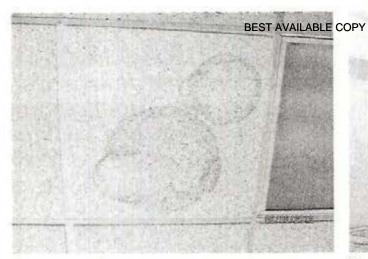
Photograph 11 Wipe sample location 6242-11



Photograph 12 Wipe sample location 6242-12

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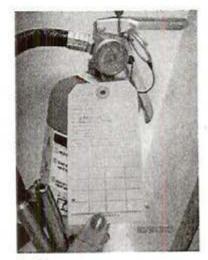
Photograph 13 Water Stained Ceiling Tiles in North Classroom



Photograph 14 Kitchen exhaust hood over stove/oven



Photograph 15 Roof exhaust fan for kitchen stove/oven



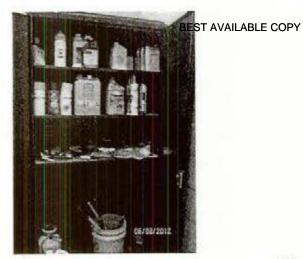
Photograph 16 Fire extinguisher without inspection date documented



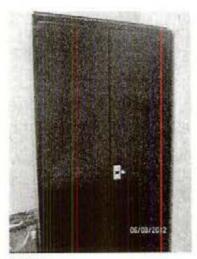
Photograph 17 No GFCI installed within 6 feet of a water source



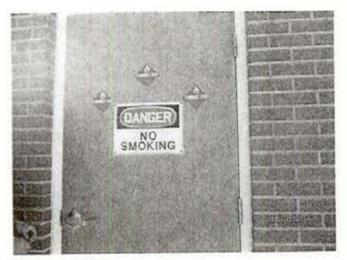
Photograph 18 Closet containing hazardous chemicals



Photograph 19 Cabinet containing flammables: Open



Photograph 20 Cabinet containing flammables: Closed



Photograph 21 Room containing flammable cabinet

Item Name	Item location
Reg. Unleaded Gasoline	Tab 1.
-Ortho Ground Clear-	— Tab 2.
Husgvarna 30wt. Bar and Chain Oil	Tab 3.
Poulan Synthetic 2-Cycle	Tab 4.
- Gumout Carb and Choke Cleaner	
Rower Care Chain, Bar and Sprocket Oil	Tab 6.
Castrol Lng. Oil 15w40	Tab 7.
Guardol 15w40	Tab 8.
Hydraulic Fluid-Auto-Fransmission	Tab-9
-CLR.Grease Magnet	Iab-10.
Rust-Oleum aerosol SPRAYPaint Color Place Aerosols Goof off	Tab 11. TAb (2 MAB 13
odorless Mineral Spirits	TAB 14
insect killer once + done	JAB 15
SILICONE RUBBERZ SEALANT	THB 14
BLACK JACK ROOF CEMENT	TAB 17

MSDS Checklist

ITEMS NAME	ITEN	A LOCATION
Misty Deodorizers		Tab 1
Comet		Tab 2
Festival Furniture Polish		Tab 3
Lotion Cleanser		Tab 4
RTU Glass Cleaner		Tab 5
Pine-O-Dis. Disinfectant Cleaner		Tab 6
Clorox	đ	Tab 7
Elite Ammonia	(s) ¹⁶¹	Tab 8
Film Free RTU Glass Cleaner		Tab 9
Pex O Mite Wax stripper/South West Strip	per	Tab 10
Allstar Sud'N Clean		Tab 11
Frequency 64 Neutral Cleaner		Tab 12
Baseboard Stripper		Tab 13
Pine 64		Tab 14
Raid		Tab 15
Purell Hand Sanitizer		Tab 16
Alistar X- Tractor		Tab 17
Dust mop Treatment		Tab 18
Furniture Polish		Tab 19
Stainless Steel Cleaner		Tab 20
Brady Hand and Body Foam		Tab 21
Snake-A-Way		Tab 22
Gojo Lotion Cream Soap	See	Tab 23
Hydrochloric Bowl Cleaner		Tab 24
Super six Quarterback	đ.	Tab 25
Dial Basic Foaming hand soap		Tab 25
Ram Rod Drain Opener		Tab 27
Thick Pink Industrial Soap		Tab 28

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		_							-
Face Di	mensions =		7.75	х	81.75	Inches	- 4	-	+
Face A	rea =	4.40	ft ²	-aa				-	+
		Face	Vel. Measu	rement P	oints		-		
			· · · · ·					1	
	1	3	5	7	9	11	-	-	-
	2	4	6	8	10	12			
							_		
	Face Veloci		and the second sec	1.000					
	Point	Flow rate	(fpm)						-
	1	121							
	2	135							
	3	162		16					
	4	152						1	
	5	130							1
	6	128						1	1
	7	120							1
	8	112							
	9	127	6						1
	10	126	· · · · · · · · · · · · · · · · · · ·						1
	.11	138							
	12	129							-
Ave Fl	ow Rate (V) =	131.67	fpm						
Area of	f Face (A) =	4.40	ft ²						1
Q = A	the second se								
Q =		579.30	CFM					-	-
Exhaus	t Duct Diamete	er =		21	inches				-
		*					1		
Area of	f Roof Top Exh	naust Duct	=	2.41	1000 mm				-
Estima	ted Duct Veloc	ity =	Line and	241	fpm		-		_

Army National Guard <u>Armory</u> Survey (To Be Included In Report)

1	
Five lead wipe samples collected from drill floor (take samples from dusty horizontal floor surfaces)	V
Are any weapons cleaned in the facility, if yes where are they cleaned?	-Supply rm -orderly rm
Additional lead wipe samples taken from 25% of the rest of the building(on floor areas only)	
Is there a converted indoor firing range? If so collect additional wipe samples IAW the SOW.	о _Ч
Is there any peeling paint? Take bulk sample if able.	No
Are there any signs of water damage or mold?	yes- 1/20. stained ceiling tites
Any suspected ACM? Where and what condition is it in. Bulk sample if able.	·
Quality of housekeeping	exe ol
HVAC maintenance plan in place?	State Facilities
Overall condition of HVAC system	Good
Obtained CO2, Temp, RH monitoring	
HAZMAT inventory on hand (make copies for the report), MSDS available for all materials.	
HAZMAT storage, Condition of lockers, if outside storage building is used is it ventilated and does it meet OSHA standards.	

)

Fire alarm in working conditionnot usually in place in older armorics	
Fire extinguishers in place and properly identified and mounted	. ✓
Evidence of monthly fire extinguisher inspections	No -
Annual fire extinguisher inspections tags	Yes
Are eye wash stations available in areas where hazardous materials are used and are they inspected weekly (inspections must be documented)	eye wash present not functional
Egress routes accessible and properly markednoted on Fire Evacuation Plan	
Training programs in place; Hazcom, Respiratory Protection, Confined Spaces, Hearing conservation, PPE (if applicable)	
Any Photo labs	
Any hazardous noise sources	No
Light levels checked throughout building	
Breaker panels properly labeled with no exposed wiring	~ no missing panels
Check building occupancy 1. How many military personnel, how many civilian personnel What types of units decupy facility, i.e. Administrative, Maintenance, etc.?	2 mil persennel only unit is transportation
Any civilian activities in armory (cub scouts, classes, day care, parties etc)	yes
Obtain two lead air samples	

		1
Evaluate Kitchen Stove Hood Flow if Present IAW NFPA Standard 96	yes	
Collean Source Noise Measurements of Kirdne / Appliances and Document Using pip 2214	yes.	
Conduct a safety walkthrough of entire facility document any safety deficiencies found.	Yes -no CIFEI whin 6 of Hzo sources-k -montially checks on extings- not c	itchen/scully
Take photos of outside of building, all sample points and any pertinent hazards or concerns.	55	
Name of Armory, POC, phone #, address and organizations in Armory	Non-Responsive Non-Responsiv	

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FSPANOLA ARMORY FACILITY INFORMATION (Information listed in First Section) (1st Few Paragraphs/Pages of Report)

1. Date Prepared: 20120807

2. Names (and Company Name) of Personnel Conducting Industrial Hygiene Site Assistance Visit: DEt 31115th Transportation Company

 Facility Name and Brief Summary of Primary Activities Conducted at Facility: 1115th Transportation Company, Truck Driving and Admin Activities.

4. Facility Address: PO Box 1367, Espanola, NM 87532

5. Primary Unit Assigned to Facility (Ensure to capture and provide Unit Identification Code (UIC))

6. Co-Tenant Units Assigned or Working Within Facility (LIST ALL): NONE

7. Square Ft. Area of Facility:

8. Work Schedule: Monday - Friday 0700-1700

9. Number of work bays: 1

10. Equipment Density and Type:

a. List Equipment Nomenclature Serviced or Maintained at Facility:
10 ea 915A3
20 ea 872A2
1 ea LMTV

11. Total Number of Personnel: 2

12. No. of Admin. Personnel (Include Status - AGR, Fed. Tech., IDT, State or Contract Employee): 2 AGR

13. No. of Maintenance Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee): 2 State Contract employees

14. Total Number of Personnel Enrolled in the Hearing Conservation Program: none

15. Total Number of Personnel Enrolled in the Respiratory Protection Program: none

16. Total Number of Personnel Enrolled in the Medical Surveillance Program: none

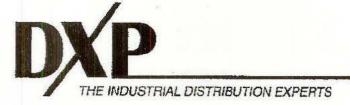
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ESPHNOLA ARMORY PAGE 1 of 2

- 17. Total Number of Personnel Enrolled in the Vision Program: none
- 18. Facility Commander:
 - a. Email address, Commercial Telephone Number and Unit Assigned to: Non-Responsive

DET 3 1115th Transportation Company

- 19. Safety Officer:
 - a. Email Address, Commercial Telephone Number and Unit Assigned to: Non-Responsive (505)474-2676 DET 3 1115th Transportation Company
- 20. Facility Telephone Number: (505)474-2676



Technical Services Division

Certificate of Calibration

The following equipment was calibrated to manufacturer's specification with instrumentation whose accuracies are traceable to the National Institute of Standards and Technology.

Manufacturer:

MSA

Model:

Sound Level Meter Type 2

Serial Number:

00035

Calibration Date:

Calibrated By:

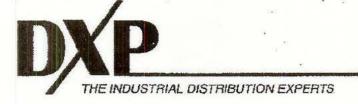
February 10, 2012 Non-Responsive

1111 South 27th Street Billings, Montana 59101 1-800-947-7120

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Technical Services Division

Certificate of Calibration

The following equipment was calibrated to manufacturer's specification with instrumentation whose accuracies are traceable to the National Institute of Standards and Technology.

Manufacturer:

MSA

Model:

Sound Level Calibrator 6950

Serial Number:

07349

Calibration Date:

Calibrated By:

Non-Responsive

February 10, 2012

1111 South 27th Street Billings, Montana 59101 1-800-947-7120

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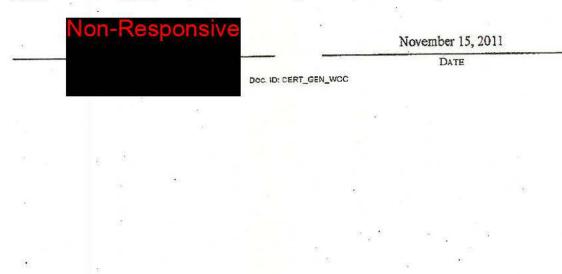
CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

ENVIRONN	MENT CON	DITION			IM	IODE	T	2 4		756	5-X
TEMPERAT	URE		66.9 (19.4)	°F (°C)		IVDI.			(Proton)		
RELATIVE I	HUMIDITY		21	%RH		PDTA	l Numbei		75	5X0	812016
BAROMETR	UC PRESSUR	E	28.60 (968.5)	inHg (hPa)		CRIA	LINUMBER	<u> </u>	100		
As					TOLE				: : a, :		<u>.</u>
	FOUND	Stration of the	A		UTOP	TOLE	RANCE			-	Contraction of the local division of the loc
	FOUND	- C & L	IBRATI	ION VER			a de la companya de l	RESUL	т s –		
	8 A	- C & L	IBRATI	ION VER	18)	I C A	a de la companya de l		т s –		Unit: °F (°C
THERMO	COUPLE	- C A L MEASURED		ION VER	18)	I C A	TION			ALLOW/	Unit: °F (°C
THERMO # STAN	COUPLE		ALLOW	ION VER Systi	18)	I C A	T 1 0 N	12		ALLOW/	And the other designs and the second second
THERMO # STAN 1 72.3	COUPLE DARD (22.4)	Measured 72.3 (22,4)	ALLOW	ION VER Systi /able Range 1.3 (21.3~23.5)	IF EMP #	RES	T 1 0 N	2 Measured			And the other designs and the second second
THERMO # STAN 1 72.3 BAROME	COUPLE	Measured 72.3 (22,4)	ALLOW 70:3~74	ION VER Systi /able Range 1.3 (21.3~23.5)	IF EMP # EMP	RES	TION SURE01-0 ANDARD	2 MEASURED		Un	BLE RANGE

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. TSI's calibration system is registered to ISO-9001:2008 and meets the regularements of ISO 10012:2003.

Measurement Variable Temperature Pressure	E002416	03-25-11	03-25-12	Measurement Variable Pressure DC Voltage	<u>System ID</u> E003984 E003493	10-06-11	Cal. Due 10-06-12 01-05-12
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CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

ENVIRONMENT (CONDITION		Anna A	11	ODE	v	54.59	7565-X
TEMPERATURE		67.1 (19.5)	°F (°C)		TODE	,L	÷	1000-2
RELATIVE HUMIDI	TY	. 21	%RH .			. Nau anna		756570040046
BAROMETRIC PRES	SURE	28.60 (968.5)	inHg (hPa)		CRIA	l Number	•	7565X0812016
AS LEFT	And the first state of the second		Øh	TÓLE	RAN	CE		
As Found			□c	UT OF	TOLE	RANCE		
	- CAL	IBRATI	ON VER	IFI	Ç A	TION	RESULT	S
THERMO COUP	LE		SYST	EM P	RES	SURE01-02	and the state of the	Unit: °F (°C,
# STANDARD	MEASURED	ALLOW	ABLE RANGE	. #	ST	ANDARD	MEASURED	ALLOWABLE RANGE
" SIANDARD	72,1 (22.3)	70 3~74	3 (21.3-23.5)		10.1			
1 72.3 (22.4)	14,1 (44,3)	14.5	Same and the second second	- Maria				
1 72.3 (22.4)	خرش و مرتقق مردونها معالم فصاريق من مربو برور		a second and a second	EM P	RES	SURE01-02		Unit: inHg (hPa
	خرش و مرتقق مردونها معالم فصاريق من مربو برور		a second and a second		RES	SURE01-02 STANDARD	MEASURED	Unit: inHg (hPa) ALLOWABLE RANGE

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. TSI's calibration system is registered to ISO-9001:2008 and meets the requirements of ISO 10012:2003.

Measurement Variable	System ID	Last Cal.	Cal, Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Temperature	E002416	03-25-11	03-25-12	Pressure	E003984	10-06-11	10-06-12
Pressure	E003982	10-03-11	04-03-12	DC Voltage	E003493	01-05-11	01-05-12

DOC. ID: CERT_GEN_WCC.

Non-Responsive

November 15, 2011

DATE

2008Z N/S

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 630 of 1628 ·B·

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 I-651-490-2811 Fax: 1-651-490-3824 http://www.tsl.com

EN	VIRONMENT C	ONDITION				M	ODEL		982
TEN	PERATURE	-	66.7 (19.3)	°F (°C)		114	ODEL	a	
REL	ATIVE HUMIDIT	Y	22	%RH		S'r	RIAL NUMB		P08100015
BAI	ROMETRIC PRESS	URE	28.60 (968.5)	inHg (hPa)		DL.	RIAL INUMB	ER	FOOTOOTO
-	AS LEFT	u #	42 12				RANCE TOLERANCE		
	(m) e	- CAL	IBRAT	ION VE	RI	FI	CATIO	RESULT	S -
GA	S CO2 AS FC	UND	0	in the second second	S	YST	EM G-101	in alterna in the second second	Unit: ppr
#	STANDARD	MEASURED	ALLOW	ABLE RANCE	1	# .	STANDARD	MEASURED	ALLOWABLE RANGE
ī	0	0	Sec. 9 4.35	0~50		4	2999	3063	2909-3089
2	513.4	*.350.5	46	3.4~563.4		5	4934	* 5115.4	4786-5082
3	1009.6	* 914.7	959	.6~1059.6	-		i		
GA	S CO AS FO	UND			SI	YST	EM G-101		Unit: ppi
#	STANDARD	MEASURED	ALLOW	ABLE RANGE		#	STANDARD	MEASURED	ALLOWABLE RANGE
1	35	. 35	1.00	32~38.		2	100.1	* 95.6	97.1~103.1
TE	MPERATUR	E AS FOUND	an an abhim tairinn i		S	YST	EM T-101		Unit: °F (°C
#	STANDARD	MEASURED	ALLOWA	BLE RANGE	#	Ş	TANDARD	MEASURED	ALLOWABLE RANGE
1	32.0 (0.0)	32.5 (0.3)	31.0~33.0	0 (-0.6~0.6)	2	. 1	40.0 (60.0)	140.5 (60.3)	139.0-141.0 (59.4-60.6)
HI	MIDITY AS	FOUND			S	YST	EM H-102	and the second	Unit: %RI
#1	STANDARD	MEASURED	ALLOW	ABLE RANGE		#	STANDARD	MEASURED	ALLOWABLE RANGE
1	10.0	9.7	1 1	7.0~13.0		4	70.0	68.3	67.0~73.0
2	30.0	29.6	2	7.0-33.0		5	90.0	. 87.4	87.0~93.0
3	50.0	49,3	- 4	7.0~53:0			a 120 a	- A	

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NISI) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants, TSI's calibration system is registered to ISO-9001:2008 and meets the requirements of ISO 10012:2003.

Measurement Variable 5000 CO2 N2 Flow Flow 2000 C4H8 Temperature Humidity	System 1D EB0021287 K100246116 E003297 E003501 CC314662 E003986 E003539	Last Ca). 08-03-11 11-04-11 04-20-11 06-08-11 06-04-09 10-24-13 08-30-11	Cal. Dire 08-02-14 10-26-16 04-20-12 06-08-12 06-04-12 04-24-12 02-29-12	Measurement Variable 200 CO Air Flow Flow 100 C4H8 Temperature	System ID CC188518 HP-T-098370 E003298 E003980 EB0014789 E003987	Last Cal. 07-28-11 10-11-11 04-22-11 08-17-11 05-06-09 10-24-11	Cal. Due 07-27-14 09-16-14 04-22-12 08-17-12 05-06-12 04-24-13
Non	-Respo	onsiv	e				

November 15, 2011

DATE

DOC. ID: CERT_GEN_WCC

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 631 of 1628

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

DIN	IVIRONMENT C	ONDITION	·			MODEL		982
TE	MPERATURE		70.2 (21.2)	°F (°C)				
RĘ	LATIVE HUMIDIT	Y	16	%RH		SERIAL NUMI		000400045
ВΛ	ROMETRIC PRES	SURE	28.87 (977.7)	inHg (hPa)		SERIAL INUMI	JER	P08100015
-	AS LEFT				ALC: NOT ALC	ERANCE		
_	AS FOUND			L	JOUT O	F TOLERANCE		
		- CAL	IBRATI	ION VE	RIF	ICATIO	N RESULT	r s –
TE	MPERATURE '	VERIFICATION			SYS	TEM T-101		Unit: °F (°C
#	STANDARD	MEASURED	ALLOWAR	LE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	32.0 (0.0)	32.1 (0.0)	31.0~33.0	(-0.6-0.6)	2	140.0 (60.0)	140.1 (60.0)	139.0-141.0 (59.4-60.6)
Hi	MIDITY VERI	FICATION			SYS	TEM H-102		Unit: %R
#	STANDARD	MEASURED	ALLOW	ABLE RANGE	. #	STANDARD	MEASURED	ALLOWABLE RANGE
I	10.0	9.4	7.	8~12.2	4	70.0	69.8	67.8~72.2
2	30.0	29.9	27	.8~32.2	5	90.0	89.2	87.8~92.2
3	50.0	50.2	47	.8~52.2		ji ka e		
cc	DI GAS VERIF	ICATION			SYS	TEM G-101	and the second second	Unit: pp
#	STANDARD	MEASURED	ALLOW	ABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	- 0 -	0		0~50	4	3001	2993	2911~3091
2	512 :	.507	4	62~562	5	4926	4918	4778~5074
3	- 1010 -	1010	96	0~1060	· .		A Ca	
cc) GAS VERIFIC	CATION	-	in an	SYS	TEM G-101	en e	Unit: ppi
#	STANDARD	MEASURED	ALLOW	ABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	35	35.	1 1 1 1	32-38	2	100		97~103

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants, TSI's calibration system is registered to ISO-9001:2008 and meets the requirements of ISO 10012:2003.

Measurement <u>Variable</u> Temperature Humidity 200 CO Air Flow	System ID E003986 E003539 CC188518 HP-T-098370 E003298 E003298	Last Cal. 10-24-11 08-30-11 07-28-11 10-11-11 04-22-11 08-17-11	Cal. Due 04-24-12 02-29-12 07-27-14 09-16-14 04-22-12 08-17-12	Measurement Variable Temperature 5000 CO2 N2 Flow Plow 2000 C4H8	System ID B003987 EB0015430 K100246116 E003297 E003501 CC314662	Last Cal. 10-24-11 08-03-11 - 11-04-11 04-20-11 06-08-11 06-08-11	Cal. Due 04-24-12 03-04-12 10-26-16 04-20-12 05-08-12 06-04-12
Flow 100 C4H8	E003980 EB0014789	08-17-11 05-06-09	08-17-12 05-06-12	2000 C4H8	CC31.4662	06-04-09	05-04-12

November 16, 2011

DATE

DOG. ID: CERT_GEN_WCC

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 632 of 1628 **TSI P/N 23001**

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

CN	VIRONMENT (CONDITION				Monor		9515
TE	MPERATURE		66.7 (19.3)	°F (°C)		MODEL		9919
RE	LATIVE HUMID	TY	58	%RH				TOF4 64 400007
BA	ROMETRIC PRES	SURE	28.78 (974.6)	inHg (hPa)	1	SERIAL NUM	BER	T95151103007
	AS LEFT AS FOUND	2. 2. 2.	and the local			OLERANCE OF TOLERANCE	-	
	A ALBERT A THE IL			ON VE			N'RESUL	S Same and American State
. i		E AS FOUND	and the second second			YSTEM T-101		Unit: °F (°C
#	STANDARD 32.0 (0.0)	MEASURED 32.1 (0.1)	31.5~32.5	(-0.3-0.3)	#	STANDARD 140.0.(60.0)	MEASURED 139.7 (59.8)	ALLOWABLE RANGE 139.5~140.5 (59.7~60.3)
41					1	- HALL	and the second second	
I V.E	LOCITY VER	FICATION			S	YSTEM V-107		Unit: ft/min (m/s
		FICATION MEASURED	ALLOWABL	RANGE	* *	YSTEM V-107 Standard	MEASURED	Unit: fi/min (m/s ALLOWABLE RANGE
	LOCITY VER		ALLOWABLI -5~5 (-0.0				MEASURED 685 (3.49)	The farmer of the second s
#	STANDARD	MEASURED		3~0.03)	#	STANDARD	and down of the Works of the Local Division of the Local Divisiono	ALLOWABLE RANGE
# 1 2	STANDARD 0 (0.00)	MEASURED 0 (0.00)	-5~5 (-0.0	3~0.03) 3~0.18)	#	STANDARD 700 (3.55)	685 (3.49)	ALLOWABLE RANGE 665-733 (3.38-3.73)
# 1 2 3	ELOCITY VER Standard 0 (0.00) 30 (0.15)	MEASURED 0 (0.00) . 26 (0.13)	-5~5 (-0.0 25~35 (0.1	3~0.03) 3~0.18) 8~0.33)	# 7	STANDARD 700 (3.55) 1198 (6.09)	686 (3.49) 1195 (6.07)	ALLOWABLE RANGE 665-733 (3.38-3.73) 1138-1258 (5.78-6.39)
1 # 1 2 3 4 5	ELOCITY VER STANDARD 0 (0.00) 30 (0.15) 61 (0.31)	MEASURED 0 (0.00) 26 (0.13) 61 (0.31)	-5~5 (-0.0 25~35 (0.1 56~66 (0.2	3~0.03) 3~0.18) 8~0.33) 8~0.53)	# 7 8 9	STANDARD 700 (3.55) 1198 (6.09) 1922 (9.76)	685 (3.49) 1195 (6.07) 1915 (9.73)	ALLOWABLE RANGE 665-733 (3.38-3.73) 1138-1258 (5.78-6.39) 1826-2018 (9.28-10.25)

TSI does hereby certify that the above described instrument conforms to the original manufacturer's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants, TSI's calibration system is registered to ISO-9001:2008 and meets the requirements of ISO 10012:2003.

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Temperature	E003986	04-17-12	10-17-12	Temperature	E003987	04-17-12	10-17-12
DC Voltage	E001653	06-24-11	12-24-12	Barometric Pressure	E001992	04-06-12	04-06-13
Temperature	E001643	02-16-12	08-16-12	Pressure	E001718	12-07-11	06-07-12
Pressure	E002389	03-06-12	09-06-12	Velocity ·	E003327	09-19-07	09-19-12

DOC ID: CERT_GEN_WCC



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VERIFIED

May 3, 2012 DATE

	Tei: 1-800-	ATE OF (accorporated, 500 (874-2811 1-651-4	-1				9515	
VIRONMENT CONDITION	66.7 (19.3) •F (°C)	Mot	DEL		7054	511030	07
MPERATURE	58	%RH	SER	IAL NUMBER	.	1951	011000	
LATIVE HUMIDITY	28.78 (974	4.6) inHg (hPa)	_ال_	in the second second				1
AROMETRIC PRESSURE			IN TOLER	ANCE	13	w Phile	3 N - 1 N N	اليسين
ASLEFT			JOUT OF T		RESUL	T.S		
FT		TION VI	BRIFI	CATION	RESUL		Unit:	°F(°C)
_ (CALIBRA	1100	SYST	EM T-101	1	AL	WABLE R.	ANGE
TEMPERATURE VERIFIC	ATION	WABLE RANGE	1 # 5	TANDARD	MEASURED 139.7 (59.8)	139.	5-140.5 (59.	7~60.3)
TIL COLINDARD MILAOU	215	-32.5 (-0.3-0.3)	lan	40:0 (69.0)			Unit: fi/1	nin (m/s)
1 32.0 (0.0) 32.1 ((011)		Syst	TEM V-111	MEASURED	A	LOWABLE R	ANGE
VELOCITY VERIFICATIO	N	WABLE RANGE		699 (3.55)	698 (3.55)	1 1	64~734 (3.37 43~1263 (5.8	1-6.42
AL STANDARD MISAD	-5~	5(-0.03~0.03)	-l'it-	1203 (6.11)	1206 (6.12)	10	16.1996 (9.1	8~10.14)
# STA(0,10) 0 (0.0) 1 0 (0.00) 0 (0.0) 20 (0.15) 30 (0)	25-	35 (0.13~0.18)	8	1901 (9.66)	1897 (9.64)		A 7941 (13.	16~14.431
2 30 (0.10) 61 (0		.65 (0.28-0.33) 106 (0.49-0.54)	10	2705 (13.74)	2720 (13.82) 3815 (19.38		14-3994 (18.	36~20.29)
101 (0.51) 102 (0.507 100	210 (0.96-1.01)	11	3804 (19.32)		1		
4 101 (0.51) 102 (5 200 (1.01) 198	(1.01) 190-	-210 (0.96-1.07) -417 (1.91-2.12)					ot applicable e of Standard	to As Found
4 101 (0.51) 102 ((1.01) 190 (2.03) 377 (2.03) 377	~210 (0.96~1.07) ~417 (1.91~2.12) bed instrument coi ds whose accuraci respect to instrum em is registered to Last Cal. CP 04-17-12 10 04-06-12 04		- minimal man	ufacturer's spec led States Natio s traceoble to N the requirement t Variable Sy El El El E E	ification (n nal Institut IST. or is 6 Is of ISO In stem ID 03987 104398 104041 1003327	04-17-12 12-08-11 03-30-12 09-19-07	to As Found ls and accepted value 10-17-12 06-08-12 09-30-12 09-19-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibrated by (NIST) or has of physical constants. TSI' Measurement Variabe Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace nentation will ISO-9001: al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam table fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibrated by (NIST) or has of physical constants. TSI' Measurement Variabe Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument co. ds whose accuraci is respect to instrum em is registered to Last Cal. Ca 04-17-12 10 04-06-12 04 01-20-12 00	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	ification (n nal Institut IST. or is 6 Is of ISO In stem ID 03987 104398 104041 1003327	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibra Technology (NIST) or has of physical constants. TSI' Measurement Variab Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam table fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibra Technology (NIST) or has of physical constants. TSI' Measurement Variab Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibra Technology (NIST) or has of physical constants. TSI' Measurement Variab Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibra Technology (NIST) or has of physical constants. TSI' Measurement Variab Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibrated by (NIST) or has of physical constants. TSI' Measurement Variabe Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceable to N the requirement t Variable Sy EU EU EU EU E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibra Technology (NIST) or has of physical constants. TSI' Measurement Variab Temperature Barometric Pressure Temperature Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceoble to N the requirement t Variable Sy El El El E E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12
4 101 (0.51) 102 (5 200 (1.01) 198 (6 397 (2.02) 399 TSI does hereby certify that data) and has been calibra Technology (NIST) or has of physical constants. TSI' Measurement Variab Temperature Barometric Pressure Temperature Pressure Pressure	(1.01) 190 (2.03) 377 (2.03) 377	-210 (0.96-1.07) -417 (1.91-2.12) bed instrument cod ds whose accuraci is respect to instrum em is registered to Last Cal. Ce 04-17-12 10 04-06-12 04 01-20-12 0 01-18-12 0	nforms to the ies are trace mentation with 1SO-9001:2 al. Due 0-17-12 4-06-13 7-20-12 11-18-13	te original mam bable fo the Uni hose accuracy i 2008 and meets <u>Measuremen</u> Temperature DC Voltage Pressure Velocity	ufacturer's spec led States Natio s traceoble to N the requirement t Variable Sy El El El E E	Viay 3, 22	04-17-12 12-08-11 03-30-12 09-19-07	06-08-12

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Sample Number	Collection Date	Location	Result µg/ft ²
6242-01	8/7/2012	Drill Hall, S.E.	<23
6242-02	8/7/2012	Drill Hall, S.W.	<23
6242-03	8/7/2012	Drill Hall, N.W.	<23
6242-04	8/7/2012	Drill Hall, N.E.	<23
6242-05	8/7/2012	Drill Hall, center	34
6242-06	8/7/2012	Kitchen	<23
6242-07	8/7/2012	South office, desk top	<23
6242-08	8/7/2012	Orderly room	<23
6242-09	8/7/2012	Gun vault	31
6242-10	8/7/2012	Supply room, counter	<23
6242-11	8/7/2012	North classroom, South side	<23

Lead Wipe Sample Results



Report Date: August 28, 2012

Non-Responsive

640 East Wilmington Avenue Salt Lake City, UT 84106 Phone: (801) 466-2223 Fax: (801) 466-9616

Non-Responsive

Workorder: 34-1223443 Client Project ID: 12U-16242/Espanola Armory Purchase Order: 12U-16242 Project Manager Non-Responsive

Analytical Results			a the second	
Sample ID: 6242-1	Med		Collected: 08/07/2012	
Lab ID: 1223443001	Sampling Location	-	Received: 08/21/2012	
Method: NIOSH 7300 Mod.	Sampling	Parameter: Area 100	cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft ² RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6242-2	Med	ia: Lead Dust Wipe		Collected: 08/07/2012
Lab ID: 1223443002	Sampling Location	on: Espanola Armory		Received: 08/21/2012
Method: NIOSH 7300 Mod.	Sampling	Parameter: Area 100	Cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft ² RL (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6242-3	Med		Collected: 08/07/2012	
Lab ID: 1223443003		on: Espanola Armory		Received: 08/21/2012
Method: NIOSH 7300 Mod.	Sampling	cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012	
Analyte	ug/sample	ug/ft ² RL ((ug/sample)	
Lead	<2.5	<23	2.5	
				Callasted: 08/07/2012

Sample ID: 6242-4	Me		Collected: 08/07/2012	
Lab ID: 1223443004	Sampling Locat	tion: Espanola Armory		Received: 08/21/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Area 100	cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft ² RL	(ug/sample)	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
Lead	<2.5	<23	2.5	

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, USA 84123 PHONE +1 801 266 7700 FAX +1 801 268 9992 ALS GROUP USA, CORP. Part of the ALS Laboratory Group A Campbell Brothers Limited Company

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Environmental

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Workorder: **34-1223443** Client Project ID: 12U-I6242/Espanola Armory Purchase Order: 12U-I6242 Project Manager

Analytical Results					
Sample ID: 6242-5	Med	lia: Lead Dust Wipe		Collected:	08/07/2012
Lab ID: 1223443005	Sampling Location	on: Espanola Armory	-	Received:	08/21/2012
Method: NIOSH 7300 Mod.	Sampling) Parameter: Area 100	cm²		08/24/2012 08/27/2012
Analyte	ug/sample	ug/ft ² RL (ug/sample)		
ead	3.7	34	2.5		
Sample ID: 6242-6	Med	lia: Lead Dust Wipe			08/07/2012
Lab ID: 1223443006	Sampling Locati	on: Espanola Armory		Received:	08/21/2012
Method: NIOSH 7300 Mod.	Sampling) Parameter: Area 100	cm²	Prepared: Analyzed:	08/24/2012 08/27/2012
Analyte	ug/sample	ug/ft ² RL (ug/sample)		
Lead	<2.5	<23	2.5		
Sample ID: 6242-7	Mec	dia: Lead Dust Wipe		Collected:	08/07/2012
Lab ID: 1223443007	Sampling Locati	on: Espanola Armory	10 	Received:	08/21/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Area 100	Cm²	Prepared: Analyzed:	08/24/2012 08/27/2012
Analyte	ug/sample	ug/ft ² RL (ug/sample)		
_ead	<2.5	<23	2.5		
Sample ID: 6242-8	Mec	dia: Lead Dust Wipe			08/07/2012
Lab ID: 1223443008	Sampling Locati		Received:	08/21/2012	
Method: NIOSH 7300 Mod.	Sampling	cm²		08/24/2012	
Analyte	ug/sample	ug/ft ² RL	(ug/sample)	A William Strategy	
Lead	<2.5	<23	2.5		
Sample ID: 6242-9	Med	dia: Lead Dust Wipe			: 08/07/2012
Lab ID: 1223443009	Sampling Locat	ion: Espanola Armory	9)	Received	: 08/21/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Area 100	cm²		: 08/24/2012 : 08/27/2012
Analyte	ug/sample	ug/ft ² RL	(ug/sample)		
Lead	3.4	31	2.5		



Workorder: 34-1223443 Client Project ID: 12U-I6242/Espanola Armory Purchase Order: 12U-I6242 Project Manager: Non-Responsive

Analytical Results			and a state of the	
Sample ID: 6242-10		lia: Lead Dust Wipe		Collected: 08/07/2012
Lab ID: 1223443010	Sampling Location	on: Espanola Armo	ſŷ	Received: 08/21/2012
Nethod: NIOSH 7300 Mod.	Sampling	Parameter: Area 10	00 cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft ² Rl	_ (ug/sample)	
ead	<2.5	<23	2.5	
Sample ID: 6242-11	Mec	dia: Lead Dust Wipe)	Collected: 08/07/2012
Lab ID: 1223443011	Sampling Locati	on: Espanola Armo	ry	Received: 08/21/2012
Wethod: NIOSH 7300 Mod.	Sampling	g Parameter: Area 10	00 cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft ² R	L (ug/sample)	
Lead	<2.5	<23	2.5	
Sample ID: 6242-12	Med	dia: Lead Dust Wipe	e	Collected: 08/07/2012
Lab ID: 1223443012	Sampling Locat	ion: Espanola Armo	ry	Received: 08/21/2012
Method: NIOSH 7300 Mod.	Sampling	g Parameter: Area 1	00 cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft ² R	L (ug/sample)	
_ead	<2.5	<23	2.5	
Sample ID: 6242-13	Me	Collected: 08/07/2012		
Lab ID: 1223443013	Sampling Locat	ion: Espanola Armo	ory	Received: 08/21/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Area 1	00 cm²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft² R	L (ug/sample)	·自己的是一些是我的你必
Lead	<2.5	<23	2.5	
Sample ID: 6242-14	Me	dia: Lead Dust Wip	e	Collected: 08/07/2012
Lab ID: 1223443014	Sampling Locat	tion: Espanola Armo	ory	Received: 08/21/2012
Method: NIOSH 7300 Mod.	Samplin	g Parameter: Area 1	00 cm ²	Prepared: 08/24/2012 Analyzed: 08/27/2012
Analyte	ug/sample	ug/ft² F	L (ug/sample)	
Lead	<2.5	<23	2.5	

Report Authorization

Analyst	Peer Review
Non-Responsive	Non-Responsive
	Analyst Non-Responsive



Workorder: 34-1223443 Client Project ID: 12U-I6242/Espanola Armory Purchase Order: 12U-I6242 Project Manager:

aboratory Contact Information

ALS Environmental 960 W Levoy Drive Salt Lake City, Utah 84123 Phone: (801) 266-7700 Email: alslt.lab@ALSGlobal.com Web: www.alsslc.com

Jeneral Lab Comments

The results provided in this report relate only to the items tested. Samples were received in acceptable condition unless otherwise noted. Samples have not been blank corrected unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP) Utah (NELAC) Nevada Oklahoma Iowa Florida (TNI) Texas (TNI)	ADE-1420 DATA1 UT00009 UT00009 IA# 376 E871067 T104704456-11-1	http://www.aclasscorp.com http://health.utah.gov/lab/labimp/ http://ndep.nv.gov/bsdw/labservice.htm http://www.deq.state.ok.us/CSDnew/ http://www.iowadnr.gov/InsideDNR/RegulatoryWater.asp> http://www.dep.state.fl.us/labs/bars/sas/qa/ http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing: CPSC Soil, Dust, Paint ,Air	ACLASS (ISO 17025, CPSC) AIHA (ISO 17025, AIHA ELLAP and NLLAP)	ADE-1420 101574	http://www.aclasscorp.com http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

)efinitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity. LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

** No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Industrial Hygiene Southwest Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS Espanola Armory, New Mexico

CONTROL	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE	ACTION	Estimated Cost(s)	DATE CORRECTED	REFERENCES
CLOSED	An asbestos survey could not be located during this IH Assistance Visit.	Espanola	0	Either locate the asbestos survey for this building or contract with a licensed firm to			1		29 CFR 1910.1001()(3)(i)
EA-080712-4.4.2	Personnel have not been provided with asbestos awareness training.	Espanola	4	perform an asbestos survey and assessment. Based on the findings of this survey, provide awareness training to assigned personnel for the specific types of					29 CFR 1910.1001(J)(3)(iii)
EA-080712-4.6.2	The flammable cabinet is not marked with the OSHA mandated warning label.	POL Room	4	asbestos in this Armory. Mark the storage cabinet as follows: "Flammable-Keep Fire Away."	-				Uniform Fire Code 79.201
EA-080712-4.8	The exhaust fan located along the west wall of the scullery and the kitchen exhaust fan did not have estimated duct velocities at a minimum of 500 fom	Scullery and Kitchen	4	Upgrade the duct velocity of the kitchen exhaust fan to at least 500 fpm.					NFPA, Standard 96, Section 8.2.1.1 (2011)
A-080712- 4.10.3	EA-080712- 4.10.3 Fire extinguishers are strategically located throughout the armory. However, monthly inspections on all of the extinguishers were not current.	Espanola Armory	4	Perform and document monthly inspections on all fire extinguishers in the facility.					29 CFR 1910.157 (e) (2)
A-080712- 4.10.4	EA-080712- 4.10.4 There is one emergency eyewash/shower located in the motor pool bay. This device was reported to be functional but leaking, as such, its use has been restricted with barriers.	Maintenance Bay	4	Repair the emergency eyewash/shower in the maintenance bay.					Recommended Practice

Reference DA FORM 4754 VER: 15 OCT 2009

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Industrial Hygiene Southwest Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

Espanola Armory, New Mexico

CONTROL		The Association		CORRECTIVE ACTIONS	SUSPENSE ACTION	ACTION	Estimated	DATE	o lotto carao
NUMBER	HAZARD DESCRIPTION	SITE	RAC		DATE	OIC/NCOIC		CORRECTED	REFERENCES
CLOSED									a later and the later
EA-080712- 4.10.7	EA-080712- 4.10.7 There are no ground fault circuit interrupter (GFCI) installed on the outlets within six feet of water sources in the scullery and kitchen.	Scullery and Kitchen	4	Install GFCI receptacles for all outlets located within six feet of a water source.					1910.303(b)(1) & NFPA 70, Article 210-8

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Summary of Recommendations for the Espanola Armory

4.4 Asbestos Management

Recommendations

- Locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.
- Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.6.2 Flammable Storage Cabinets

Recommendation

Mark the storage cabinet as follows: "Flammable-Keep Fire Away."

4.8 Kitchen Ventilation Survey

Recommendation

Upgrade the kitchen exhaust ventilation hood duct velocity to at least 500 fpm.

4.10 General Safety Walk-Through

Recommendations

1. Perform and document monthly inspections on all fire extinguishers in the facility.

- 2. Repair the emergency eyewash/shower in the motor pool.
- 3. Install GFCI receptacles for all outlets located within six feet of a water source.

1

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		6	the second s	E SURVE	iurvey)				
1. DATE (YYYYMMDD					E SURVEY (Enter				
and the set of the	20120807		NUCHE	1 1	- INITIAL SURVEY			3 - OTHER	-
3. SOUND LEVEL ME	TER	4. MICRO	Charles and the state		·	100	IBRATOR JFACTURER		
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b. MODEL Type 2	c. SERIAL NO. 00035	ь. MODEL Тур	e 2	c. SERIA	00035	b. MODI	6950		SERIAL NO. 07349
d. LAST ELECTROACOU (YYYYMMDD)	STIC CALIB DATE 20120210	d. LAST ELE (YYYYM		USTIC CALL 2012			ELECTROAC	OUSTIC CAL 2012	IB DATE 20210
6. WIND SCREEN (X d		- Januaita con ma	-	7. MEA	SUREMENTS O	BTAINED	(X one)		310
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	*	2	36			10. SEC	ONDARY S	SOURCE OF	NOISE
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	~					12 PPC	TECTION	FOLIRED (re: dBA - Level)
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	a. ATION	b. METER ACTION	c. dBC	dBA	e. RISK ASSESSMENT CODE	(Less than 85)	b. PLUG OR MUFF (85-108)	c. PLUG AND MUFF (108-118)	d. PLUG +MUF +TIME LIMIT (Greater than 118
Exhaust fan over west	sink	S	82	76	IVD	×			
Exhaust fan over dish v	washer	S	88	70	IVD	×			
	2				13	×		-	4)
						×			
1						×			
						×			
NOTES: Range of leve METER ACT	els noted by /; i.e., 102 ION: Enter F for fast r	2/109. At oper neter action an	rator stati Id S for sl	ons, measu ow meter a	ure at ear level. action.		10		
13. REMARKS (i.e., Ar	ea and equipment posted, ner, garbage disposa cou	hearing protectio	n in use, et	.c.)		on the da	v of the sur	vev	
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14. MORE DETAILED	NOISE EVALUATION R	EQUIRED:		YE	s X	NO (IF "Y	ES, " identify	type evaluati	on needed.)
	75								
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Non	I-Re	sp	0	15	ive	TION M	ONITOR (La	st Name, Firs	t Name, MI)
May, 2018	3								5d0085q(NIM) ^{nal 7} . uard Bureau

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8. DESCRIPTION OF AREAS/ (Illustrate on additional sheet a Espanola Armory Kitchen		NOISE SURV	/EY COND	OUCTED	5 x		column be	RCE OF NOI Iow	55
8 8 8 7				2	÷	10. SEC	ONDARY S	OURCE OF	NOISE
4			6	n a					(
11. SOUND LEVEL DATA						12. PRO	TECTION R	EQUIRED (re: dBA : Level)
		b. METER ACTION	c. dBC	d. dBA	e. RISK ASSESSMENT CODE	a. NONE (Less than 85)	b. PLUG OR MUFF (85-108)	c. PLUG AND MUFF .(108-118)	d. PLUG + MUFF + TIME LIMIT (Greater than 118)
Scotsman ice machine (storage	area)	. S	82	78	· IVD	×			
RTF Manufacturing refrigerato	or	S	80	74	IVD	×			
True refrigerator		S	73	66	IVD	×			
McCall refrigerator	f.	S	80	66	IVD	×			
Gaylord exhaust fan over stove	e oven	S	83	71	IVD	×			
Kitchen exhaust fan over stove		S	81	70	IVD	×			
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13. REMARKS (i.e., Area and eq	uipment posted, he	aring protectio	n in use, etc	c.)					
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Oct 17,2014

ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Guam • Hawaii • California • Oregon • Washington • Nevada • Arizona • Idaho • Urah • Wyoming • Montana • New Mexico • Nebraska

Industrial Hygiene Site Assistance Visit

Espanola Armory 2011 Industrial Park Road Espanola, NM 87532

10510 Superfortress Avenue, Suite C, Mather, CA 95655 (916) 854-1494

Posted to NGB FOIA Reading Room May, 2018

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 645 of 1628



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ARNG-CSG-P

16 NOV 2014

MEMORANDUM THRUNON-Responsive SOHM, 600 Wyoming Blvd, NE, Albuquerque, NM 87123

FOR Commander, Espanola Armory 2011 Industrial Park Rd, Espanola, NM 87523

SUBJECT: Executive Summary for a Site Assistant Visit (IHSAV) for Espanola Armory 2011 Industrial Park Rd, Espanola, NM on 17 OCT 2014.

1. References. See survey report.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an Industrial Hygiene Site Assistance Visit and cursory review of safety related items and programs was conducted at the Espanola Armory 2011 Industrial Park Rd, Espanola, NM on 17 OCT 2014.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations within the attached Industrial Hygienist report. However, IHSW concurs with the observations and findings within the attached Industrial Hygiene report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. General Observations.

a. The armory does not have an Indoor Firing Range.

5. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. Check ceiling tile areas for water intrusion. Repair any areas where water intrusion has occurred

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SUBJECT: Executive Summary for a Site Assistant Visit (IHSAV) of Espanola Armory 2011 Industrial Park Rd, Espanola, NM on 17 OCT 2014.

and remove water damaged materials and replace. (para. 3.3) (RAC 4)

 b. Properly inspect <u>fire extinguishers</u> every month and document inspection on inspection tag attached to extinguisher. (para. 3.5) (RAC 3)

 c. Update <u>MSDSs to SDS</u> format and add table of contents to help utilize index easier. Update by June 2016. (para. 3.5) (RAC 4)

6. Violation Correction Log.

a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

(1) Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

(2) Corrective measures should be implemented and accomplished at the lowest levels possible. Hazards and Corrective Measures that cannot be corrected at the facility level, and require assistance from higher headquarters or from the state level, should be elevated to the Quarterly State/BN Safety Council Meeting for resolution.

(3) Recommend a representative from the facility attend all quarterly/monthly meetings to ensure the appropriate emphasis and corrective actions are followed for hazard resolution and abatement of the observations made during this visit.

(4) Retain entries of the items corrected, or closed, for future reference. This may be accomplished by posting completed items within the Corrected Hazard Sheet portion of the Excel Violation Correction Log Workbook we've provided.

(5) The preferred method to document and track identified hazards for resolution is for their entry into the Reserve Component Automation System – Safety and Occupational Health (RCAS-SOH) Program.

b. IHSW recommends further program refinement through written documentation for standardized guidance to the personnel performing the processes. Conducting Hazard Assessments consistent with 29 Code of Federal Regulations (CFR) 1910.132, General Requirements for Personal Protective equipment and AR 40-5, Preventive Medicine, would provide this continued program refinement.

Hazard Assessment/Job Safety Analysis (JSA).

a. Documenting the Hazard Assessments provides a method to obtain initial and periodic review from the Industrial Hygiene, Occupational Health and Safety Professions located at the JFHQ/HQ/state level.

b. The Hazard Assessments should be used as written training materials for the new, transfer and unit personnel working under the auspice of the facility.

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ARNG-CSG-P

SUBJECT: Executive Summary for a Site Assistant Visit (IHSAV) of Espanola Armory 2011 Industrial Park Rd, Espanola, NM on 17 OCT 2014.

c. IHSW recommends facility supervisory staff and facility personnel conduct initial Hazard Assessments outlined in AR 40-5, Army Preventive Medicine (Section V) and 29 CFR 1910.132 and submit for review and obtain approval from the state Industrial Hygiene, Occupational Health and Safety Professions.

d. We have not provided an appendix with Hazard Assessments (HA) examples of some of this facilities operations. Additional operations can utilize this format to design HA not observed during this IHSAV.

e. An integral and important factor of the Hazard Assessment/JSA process is for the review and guidance from qualified Safety, Occupational Health and Industrial Hygiene professions located at the higher headquarters level or state level. For this reason, the Hazard Assessments (to include all pertinent and supporting documents) should be completed by the facility personnel and forward to the <u>New Mexico</u> Army National Guard Industrial Hygiene, Occupational Health and Safety Office for final review and approval (signature).

f. Job Safety Analysis (JSA's)/Hazard Assessments.

NOTE: The Hazard Assessments can be used for monthly meetings to brief/train, and document large group training events and activities.

8. IHSW recommends the <u>Senior Unit Commander of this Facility and any Co-Tenant Organizations or</u> <u>Units, review and provide assistance with implementation of these recommendations.</u> This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

9. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

10. For additional information please contact the NGB-IHSW office at (916) 854-1491 or via email at



NGB, IHSW, CIV Regional Industrial Hygiene Manager

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Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS ESPANOLA ARMORY, NEW MEXICO 87532

CONTROL NUMBER CLOSED [V]	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE	ACTION OIC/NCOIC	Estimated Cost(s)	DATE CORRECTED	REFERENCES
NMEA-10172014- 3.3	NMEA-10172014- There were ceiling tiles 3.3 damaged from water intrusion.	Armory	4	Check ceiling tile areas for water intrusion. Repair any areas where water intrusion has occurred and remove water damaged materials and replace					General Duty Clause 5 (a)(1)
NMEA-10172014- 3.5	NMEA-10172014- The SDS file is still listed as 3.6 MSDS since the Globally Harmonized System (GHS) Classification of Labeling Chemicals has just taken effect this year and the documents are still MSDS documents.	Armory	4	Update all MSDS for the facility with the new SDS format by June 2016		18			29 CFR 1910.1200(g)(8)
NMEA-10172014- 3.6	NMEA-10172014- Fire extinguishers, throughout 3.6 the facility, were not being inspected monthly.	Armony	e	Annual and monthly inspection of fire extinguishers should be accomplished and recorded on fire extinguisher. Also, have kitchen suppression system checked and inspected annually.					29 CFR 1910 157(b)(1)].

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ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- 6. Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> but check with local Environmental Office.
- 3. Disposable gloves should be treated as hazardous waste.
- Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> requirements may be reduced after it has been determined non-hazardous levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not</u> be permitted

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - B. Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only after mop heads have been cleaned.

<u>Recommended Follow-up Housekeeping Practices</u> after Clearance sampling of cleaned area is performed by certified personnel:

 Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

 Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.</u>
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - a. Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (Cleaned 2x's Monthly)
 - c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and is not a Converted IFR space, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust. **BEST AVAILABLE COPY**

NEW MEXICO ARMY NATIONAL GUARD

ESPANOLA ARMORY

2011 Industrial Park Rd Espanola, NM 87532 (505) 474 2676



Submitted to:

Ion-Responsive

National Guard Bureau Southwest Region Industrial Hygiene Office 10510 Superfortress Avenue Suite C Mather, CA 95655

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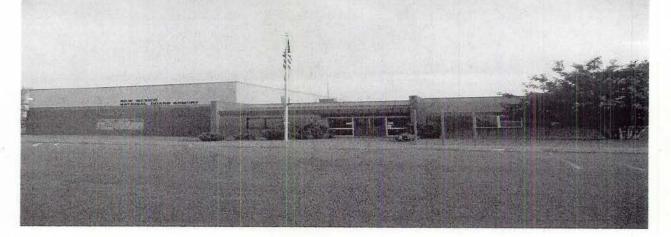
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- 3.4 Exhaust and Ventilation Systems
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INDUSTRIAL HYGIENE ASSISTANCE VISIT ESPANOLA ARMORY ESPANOLA, NEW MEXICO



1.0. Introduction and Background

1.1. This report summarizes the results of the Industrial Hygiene (IH) Survey conducted at the Espanola Armory in Espanola, NM on October 17, 2014. The Army National Guard of Industrial Hygiene Southwest Regional Manager (ARNG-IHSW) requested Non-Responsive to visit the Espanola Armory to evaluate ventilation, lighting, noise, and verify vehicle and hazardous materials inventories. The IH Survey also included an interview with Non-Responsive egarding industrial hygiene, OSHA training compliance, personnel Federal Employees Compensation Act (FECA) claims, as well as safety standards in the work area. Finally, the IH Assessment included the development of employee profiles as baseline administrative occupational health records for employees. Non-Responsive completed this survey.

1.2. The following sections will provide details on how the IH Survey was conducted. A drawing showing the facility layout and sampling locations is included as <u>Attachment E</u>. The most stringent OSHA, ARNG, Corps of Engineers (COE), American National Standards Institute (ANSI), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and Design Guide standards in effect at the time of the survey were used to assess the workplace.

1.3. The Espanola Armory supports the 1115th Detachment Taos. The Armory has 1 full time guard member, **Non-Responsive** and approximately 54 guardsmen and women on drill weekend. This armory was constructed in 1992. The armory has offices that are used for administrative purposes and also contains a drill floor, arms room, supply room, classrooms and an industrial kitchen.

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There is not a Converted Indoor Firing Range (CIFR) in this facility. There is a maintenance bay at this facility. However, it is primarily used for storage at this time. All vehicle maintenance is done at the CSMS in Santa Fe.

2.0. Survey Procedures

2.1. Lead wipe samples were collected on dusty horizontal floor surfaces in the facility including but not limited to the drill floor, maintenance bay and supply room. "Ghost Wipe" brand wipes was used with a 16 square inch template. The wipes used conform to American Standards for Testing Materials E1792-96A, *Standard Specification for Wipe Sampling Materials for Lead in Surface Dust.* The collected wipe samples were placed in clean, labeled centrifuge tubes. Samples were submitted to Reservoir Environmental Services, Inc for analysis via Flame Atomic Absorption, USEPA Method SW846 3050B. Laboratory results are listed in <u>micrograms of lead per square foot (µg/ft2)</u>. Copies of the raw analytical data are presented in Appendix E.

A visual inspection of materials utilized in this 1992 constructed building was performed. All accessible areas of the facility were visually inspected to identify suspect asbestos-containing materials (ACM).

Illumination measurements were taken in several areas of the armory using a Konica Minolta Light Meter, Model TL1. Measurements in the office and classroom areas were taken at typical work locations, such as the tops of desks and near computer workstations.

Equipment Used

Туре	Model Number	Serial Number	Calibration Date
Konica Minolt	a TL1	00279029	September 2014

3.0. Findings and Recommendations

Lead wipe sampling- Analytical results from the lead wipe sampling obtained from the armory are found in Table 3.1.A. A graphical and written representation of sampling locations can be found in <u>Appendix E</u> along with analytical reports. Photographs were taken of each sample point and are presented in <u>Appendix C</u>. There are currently no standards that dictate what a safe level of lead is from a wipe sample. Lead sampling results can be compared to the protocol outlined in the U.S. Department of Housing and Urban Development's (HUD's) *Guidelines For The Evaluation And Control Of Lead-Based Paint Hazards In Housing*, June 1997. HUD currently recommends an exposure limit of 40 ug/ft². This guideline was established to prevent lead exposure to children in domestic homes, along with females who are pregnant. Areas that have levels that exceed 40 ug/ft² should be thoroughly cleaned and employees that may come into contact with those areas should be properly trained in the hazards of lead exposure.

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Sample ID	AREA	Photo #	Result ug/ft2
101814-1	Control	NA	BDL
101814-2	North drill hall	2	BDL
101814-3	Center drill hall	3	BDL
101814-4	South drill hall	4	BDL
101814-5	West drill hall	5	BDL
101814-6	East drill hall	6	BDL
101814-7	Kitchen	7	BDL
101814-8	Maintenance bay north	8	BDL
101814-9	Maintenance bay south	9	24.5

Lead Wipe Table 3.1.A.

BDL= Below Detection Limits

ug/ ft2= Micrograms per Square Foot

<u>NOTE</u>: Please continue the cleaning of working environment throughout the armory, especially in weapons cleaning areas. Please utilize the attached SOP and general information paper provided for cleaning procedures.

3.2. Asbestos Survey- and the second was asked during this survey about the presence of asbestos and he advised no asbestos has ever been found or suspected in the armory.

Asbestos is regulated as a hazardous air pollutant by the Environmental Protection Agency (EPA) under the authority of the Clean Air Act. The asbestos regulations are included in the National Emissions Standards for Hazardous Air Pollutants (NESHAPS) and are referenced as 40 CFR 61, Subpart M.

ACM is defined by the EPA, as any material containing greater than one percent of asbestos. ACMs are categorized as being either friable or non-friable. Friable ACMs are those materials that can be easily crumbled, pulverized, or otherwise broken up using hand or finger pressure when dry, and are materials considered more likely to produce airborne asbestos fibers. Non-friable ACMs are materials that do not meet the above test, and are considered less likely to produce airborne asbestos fibers. Non-friable ACMs are further categorized into Category I non-friable ACM (packing's, gaskets, resilient floor coverings, and asphalt roofing products) and Category II non-friable ACM (materials not included in Category I).

Limitations and Exclusions of Findings

This asbestos survey and assessment was performed using procedures and a level of diligence typically exercised by professional performing similar services. However, asbestos-containing material (ACM) can be present in a structure, but not identified using ordinary investigative . procedures.

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No asbestos survey can completely eliminate uncertainty regarding the presence of ACM. The level of diligence and investigative procedures are intended to reduce, but not eliminate, potential uncertainty regarding the presence of ACM.

The only way to tell if an object contains asbestos by looking at it is if the material is labeled. Otherwise, you should have it sampled and analyzed by a qualified professional. Until you receive the results, treat the material as if it contains asbestos. Samples should be extracted only by qualified professionals. If improperly done, extracting samples can be more hazardous than leaving the material undisturbed.

3.3 Indoor air quality and HVAC Systems- The armory is heated and cooled through a central air system. The Department of Military Affairs (DMA) maintains the HVAC system.

Building air temperature, within this facility, was in the comfort range for the occupants during this survey period. The day of the survey it was 68 degrees Fahrenheit outside. Inside air temperature is recommended to be between 68-75 degrees Fahrenheit and the relative humidity is to range from 30-60%. The indoor temperature was 70-72 degrees Fahrenheit. Humidity levels above 60 percent can result in proliferation of bacteria and fungi, while levels below 30 percent can cause dry eyes, skin, and mucous membranes. There were water stains on ceiling tiles.

Recommendation: Check ceiling for water leakage. Repair all leaks and replace water damaged materials, e.g., ceiling tile, sheet rock, etc.

3.4. Exhaust and Ventilation Systems-The Espanola Armory has a maintenance bay that is now used as storage. All vehicle maintenance is done at the CSMS in Santa Fe. Oil changes are occasionally done on drill weekend. The eye wash station is checked on all drill weekends and documented.

Air flow was not measured in the industrial kitchen under the hood of the oven. The kitchen is not being used because they are not current on their fire suppression inspection. Therefore, the exhaust system has been turned off and will be turned back on once it passes inspection.

3.5. Hazardous Materials Use and Storage- All Hazmat and POL's are stored and maintained in a hazmat storage room adjacent to the maintenance bay. Only a few containers of gasoline were in the closet at the time of inspection.

Small quantities of cleaning products, utilized by the workers, were located in the janitors' closet. Arms custodians, for cleaning purposes, should be utilizing user and environmental friendly products, while the more harmful products should be properly disposed of. A well-ventilated area should be utilized when using any solvent products, along with the appropriate Personal Protective Equipment (PPE) as designated on the MSDS information sheets. The MSDS needs to be updated with a table of contents so that chemical products are easy to find and updated to the new SDS.

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Recommendation: Update all MSDS for the facility with the new SDS format by June 2016 CFR 1910.1200(g)(8)

3.6. Physical Safety and Condition of Facility- A physical walk through of the facility was conducted. Overall, housekeeping was found to be in above average condition. Electrical breaker boxes were properly labeled and accessible.

This 1992 building is of concrete block and brick construction with a concrete roof over the drill hall, tar and rock composite on remaining roof area.

The fire extinguishers within this facility are part of the fire suppression available and should be tested annually and inspected monthly. NFPA 10, 27-3.4.1 addresses alarm systems and 29 CFR 1910.157 addresses inspection requirements for fire extinguishers. Annual inspections should be accomplished by a qualified organization, e.g., fire department, and checked and documented monthly by the facilities personnel. The fire extinguishers were found to be up to date on annual inspections but behind on monthly inspections.

Recommendation: The Fire extinguishers were found to be behind on monthly inspections and the kitchen suppression system is behind on its annual inspection. Properly inspect all fire extinguishers on an annual and monthly basis. [29 CFR 1910.157(b)(1)].

3.7. Sound Level Survey- A noise survey was not conducted in the Armory. No noise hazards were noted in the facility.

3.8. Illumination Survey- Illumination levels that were measured throughout the armory office and classroom areas can be found on the floor plan in <u>Appendix D</u>. The numbers represent the illumination level in foot-candles (FC). In general, the measurements were taken at task surface level, such as on desks. Measurements not taken on a desk were taken at waist level.

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991. In general, IES recommends a range of <u>50 to 100 foot-candles</u> as the minimum lighting requirements for performance of visual tasks of medium contrast or small size, such as would typically occur in an office area.

Based on these criteria, the general lighting appears to be adequate in the offices and classrooms. Inadequate light levels may place strain on the eyes and cause headaches or vision problems. With an aging work force in place, task lighting can help reduce the vision problems associated with inadequate lighting.

3.9. Safety Policies, Training, and Record Keeping – The following safety policies and procedures were found at this site: Hazmat and joint readiness training.

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4.0 Industrial Hygienist Certification and Project Limitations

All Industrial Hygiene Assessment techniques and tests used in the Industrial Hygiene survey of the Army National Guard Armories were reviewed by Mon-Responsive Industrial Hygiene Southwest, National Guard Bureau at (916) 854-1492.

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, Aloha World's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. Aloha World assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of Aloha World, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since Aloha World is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

5.0. Technical Assistance

For technical assistance regarding information found in this report or the performed survey, please contact Non-Responsive of the Southwest Regional Industrial Hygiene Office-(916) 854 1492. Contact the State Safety, State Industrial Hygiene and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations that are needed.

Non-Responsive IH Tech Aloha World Environmental

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Appendix A: References

American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23 Edition, 1998.

American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices for 1998.

American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting 1991.

American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment 1998.

AR 40-5, Preventative Medicine, 15 October 1990.

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

Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems, May 1984.

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation, 27 August 1991.

National Safety Council, Fundamentals of Industrial Hygiene, 4~ edition, 1996.

NOR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

TB MED 503, The Army Industrial Hygiene Program, February 1985.

TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1910, Occupational Safety and Health Standards

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1926, Construction Standards

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Appendix B: Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in the ACGIH Industrial Ventilation Manual and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling, if conducted, was in compliance with applicable NIOSH Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL).

E. Risk Assessment Codes

Risk Assessment Codes (RACs) are included in this report to quantify the risk of particular operations to employees and to establish funding priorities for corrective actions. RACs are assigned with regard to hazard severity and mishap probability. The type, length, and route of exposure are taken into consideration, as are the medical effects that would occur with such exposures.

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Appendix C

Photograph Log

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Photo Log

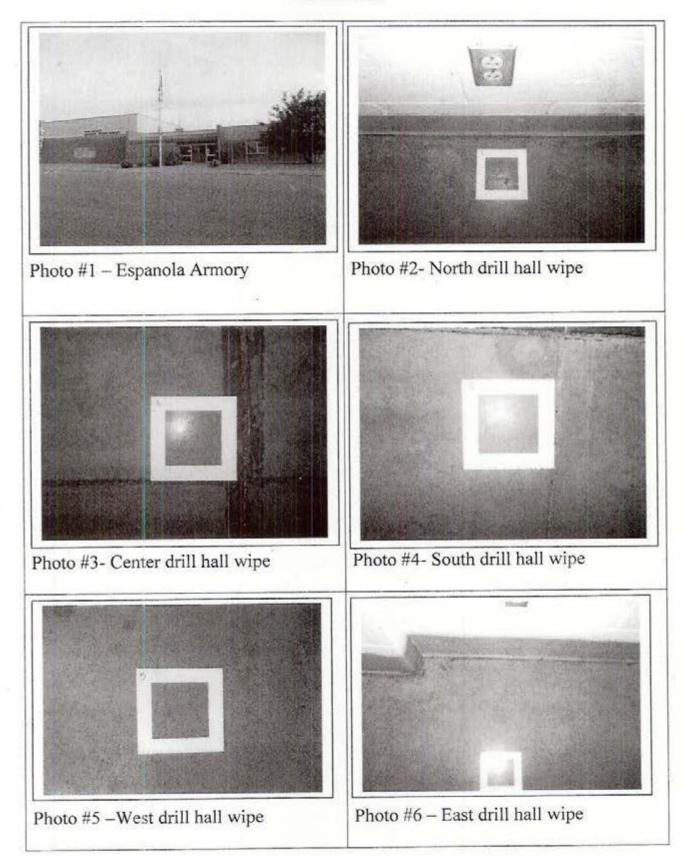


Photo Log

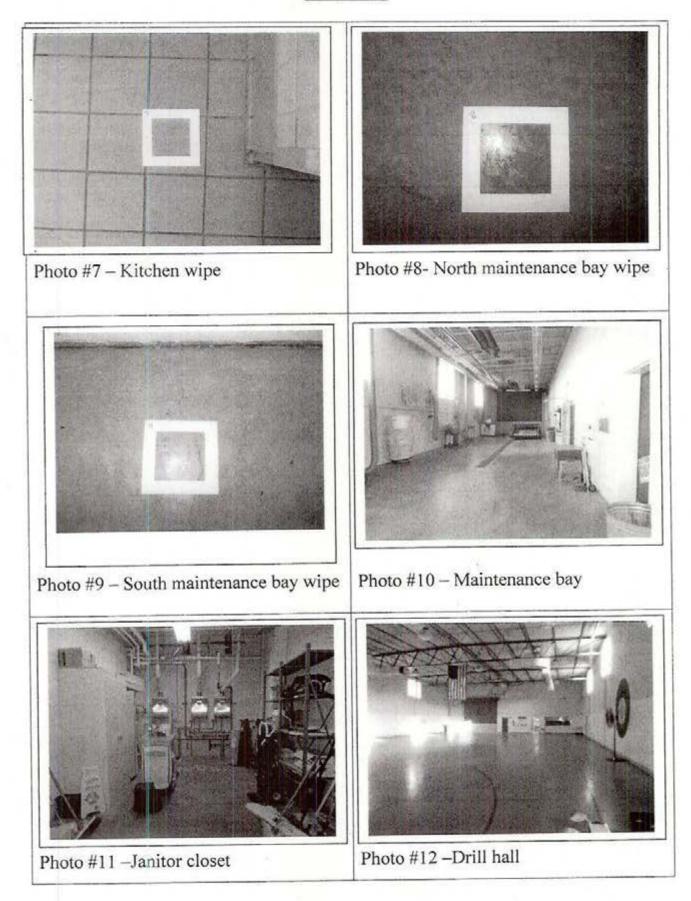
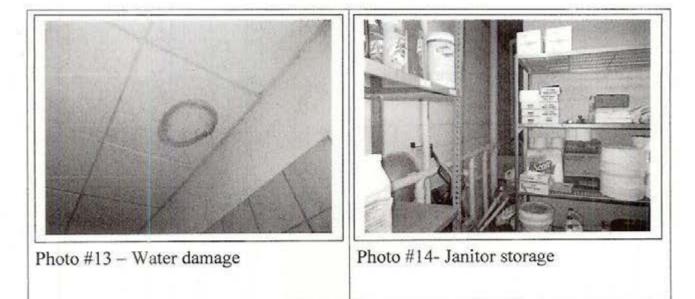


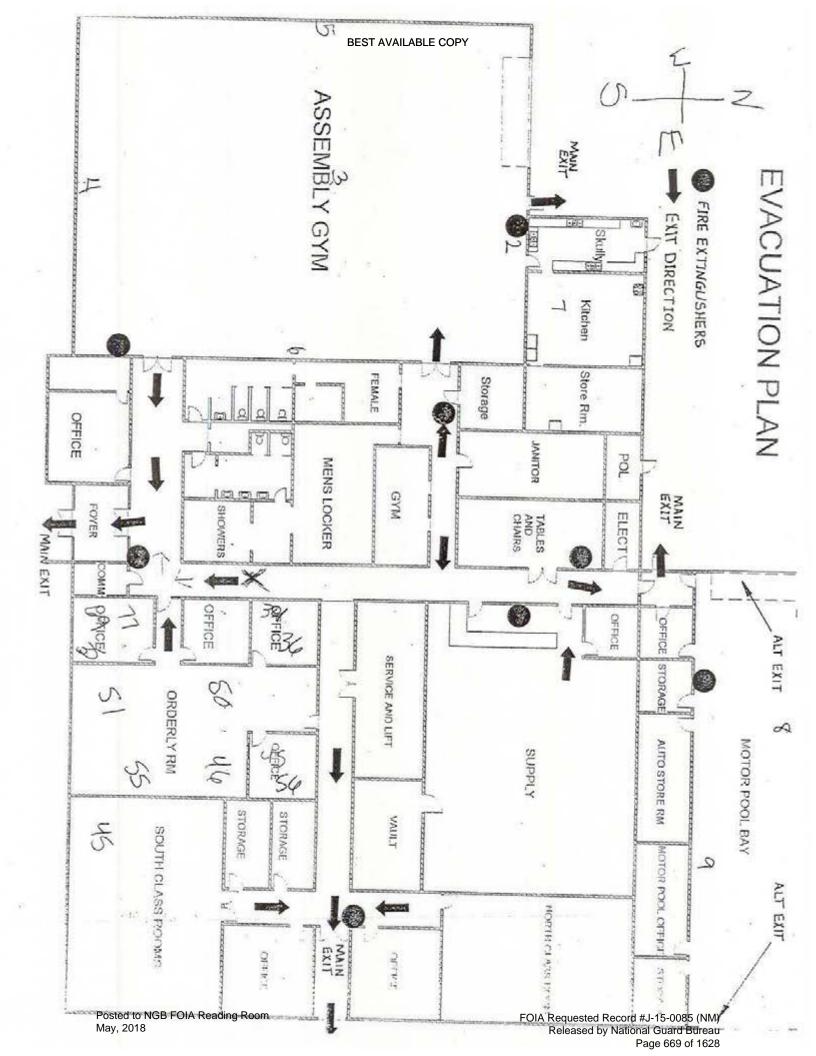
Photo Log



Appendix D

Floor Plan/Illumination Survey

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Appendix E

Laboratory Analysis Reports Sample Location & Log

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RESERVOIRS ENVIRONMENTAL, INC. 5801 Logan St., Suite 100 Denver CO 80216

TABLE

ANALYSIS:

LEAD BY WIPE SAMPLING

RES Job Number:	RES 303552-1
Client:	Aloha World
Client Project Number / P.O.:	101814
Client Project Description:	Espanola Armory
Date Samples Received:	October 21, 2014
Analysis Type:	USEPA SW846 3050B / AA (7420)
Turnaround:	3-5 Day
Date Samples Analyzed:	October 28, 2014

Client ID Number	Lab ID Number	Sample Area (sq.ft.)	LEAD (µg)	Reporting Limit (µg/ft ²)	LEAD CONCENTRATION (µg/ft ²)
101814-1	EM 1280888	0.11	BRL	22.7	BRL
101814-2	EM 1280889	0.11	BRL	22.7	BRL
101814-3	EM 1280890	0.11	BRL	22.7	BRL
101814-4	EM 1280891	0.11	BRL	22.7	BRL
101814-5	EM 1280892	0.11	BRL	22.7	BRL
101814-6	EM 1280893	0.11	BRL	22.7	BRL
101814-7	EM 1280894	0.11	BRL	22.7	BRL
101814-8	EM 1280895	0.11	BRL	22.7	BRL
101814-9	EM 1280896	0.11	2.7	22.7	24.5

*Calculations Based On A 1 sq.ft. Sample Area Unless Otherwise Noted

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.



www.reilab.com

Data Q

BRL = Below Reporting Limit

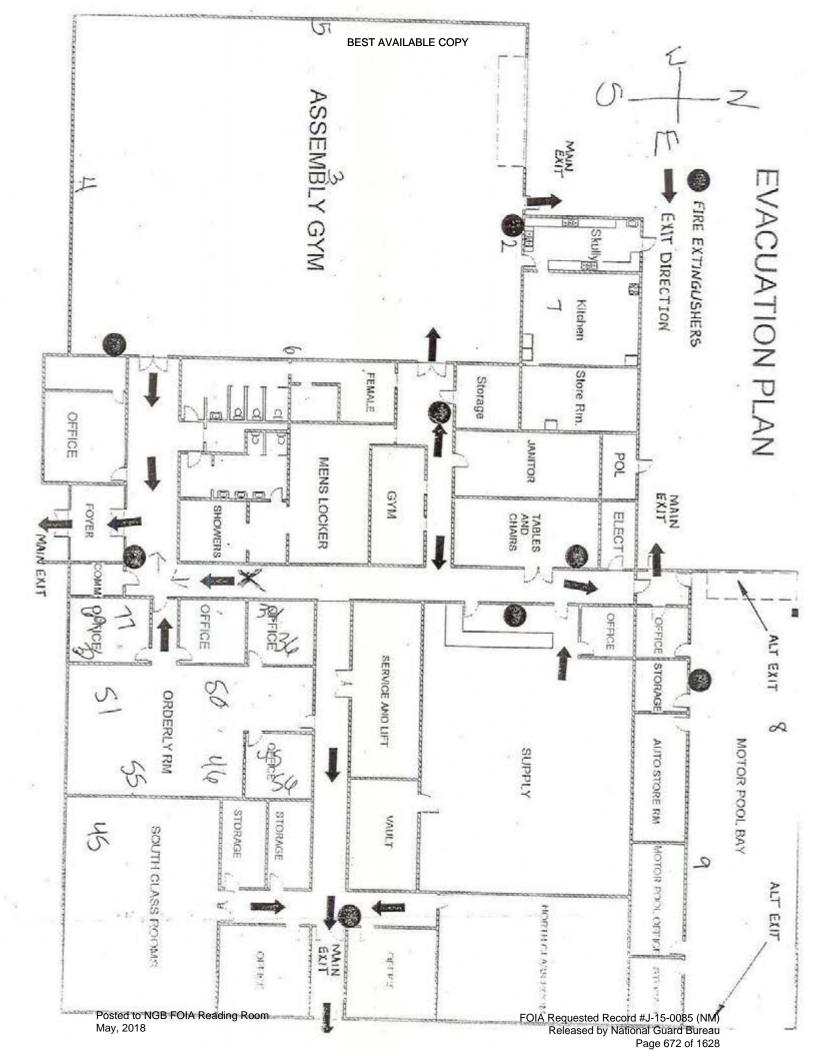
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Appendix F

ARNG Survey Checklist

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Fire alarm in working conditionnot usually in place in older armories	Yes
Fire extinguishers in place and properly identified and mounted	4-85
Evidence of monthly fire extinguisher inspections	ИО
Annual fire extinguisher inspections tags current	Y23
Are eye wash stations available in areas where hazardous materials are used and are they inspected weekly (inspections must be documented)	not used - no maint FMS6
Egress routes accessible and properly markednoted on Fire Evacuation Plan	Yes.
Training programs in place; Hazcom, Respiratory Protection, Confined Spaces, Hearing conservation, PPE (if applicable)	no
Any Photo labs	
Any hazardous noise sources	L
Light levels checked throughout building	
Breaker panels properly labeled with no exposed wiring	L-
Check building occupancy 1. How many military personnel, how many civilian personnel 2. What types of units occupy facility, i.e. Administrative, Maintenance, etc.?	1
Any civilian activities in armory (cub scouts, classes, day care, parties etc)	YPS
Obtain two lead air samples	On IHSW Request Only

£*,

1

Army National Guard <u>Armory</u> Survey (To Be Included In Report)

Five lead wipe samples collected from drill floor (take samples from dusty horizontal floor surfaces)	
Are any weapons cleaned in the facility, if yes where are they cleaned?	Yes
Additional lead wipe samples taken from 25% of the rest of the building(on floor areas only)	V
Is there a converted indoor firing range? If so collect additional wipe samples IAW the SOW.	no
Is there any peeling paint? Take bulk sample if able.	
Are there any signs of water damage or mold?	yes
Any suspected ACM? Where and what condition is it in. Bulk sample if able.	none
Quality of housekeeping	500d
HVAC maintenance plan in place?	central DMA
Overall condition of HVAC system	good
Obtained CO2, Temp, RH monitoring	zoad
HAZMAT inventory on hand (make copies for the report), MSDS available for all materials.	table of contents
HAZMAT storage, Condition of lockers, if outside storage building is used is it ventilated and does it meet OSHA standards.	~

÷.

Evaluate Kitchen Stove Hood Flow if Present IAW NFPA Standard 96.	five supression due
Collect Source Noise Measurements of Kitchen Appliances and Document Using DD 2214	n(a)
Conduct a safety walkthrough of entire facility document any safety deficiencies found.	\mathcal{V}
Take photos of outside of building, all sample points and any pertinent hazards or concerns.	
Name of Armory, POC, phone #, address and organizations in Armory	
(Add Checklist to Report)	(Add Checklist to Report)

*

Appendix G

Chemical List

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Appendix H

Recommendations

Aloha World

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RECOMMENDATIONS

1. Check ceiling for water leakage. OSHA requires that safeguards designed to protect employees during an emergency, including displaced ceiling tile, must be in proper working order at all times; General Duty Clause 5(a)(1).

2.Update all MSDS for the facility with the new SDS format by June 2016 CFR 1910.1200(g)(8).

3. The Fire extinguishers were found to be behind on monthly inspections and the kitchen suppression system is behind on its annual inspection. Properly inspect all fire extinguishers on an annual and monthly basis. [29 CFR 1910.157(b)(1)].

Aloha World

	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE DATE	ACTION	Estimated Cost(s)	DATE CORRECTED	REFERENCES
- 0	NMEA-10172014- There were celling tiles 3.3 damaged from water intrusion.	Amory	4	Check ceiling tile areas for water intrusion. Repair any areas where water intrusion has occurred and remove water damaged materials and replace					General Duty Clause 5 (a)(1)
FZIU	NMEA-10172014- The SDS file is still listed as 3.5 MSDS since the Globally Harmonized System (GHS) Classification of Labeling		1	Update all MSDS for the facility with the new SDS format by June 2016				1	29 CFR 1910.1200(g)(8)
0000	Chemicals has just taken effect this year and the documents are still MSDS documents.	Armory	4						
No. and res	NMEA-10172014- Fire extinguishers, throughout 3.6 the facility, were not being inspected monthly.	Armory	69	Annual and monthly inspection of fire extinguishers should be accomplished and recorded on fire extinguisher. Also, have kitchen suppression system checked and inspected					29.CFR 1910.157(b)(1)].

Industrial Hygiene Southwest

Violation Inventory Log

Posted to NGB FOIA Reading Room May, 2018



ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Gum • Hawaii • California • Oregon • Washington • Nevada • Arizona • Idaho • Utah • Wyoming • Montana • New Mexico • Nebraska

Industrial Hygiene Site Assistance Visit

Hobbs Armory 502 Jack Gomez Blvd. Hobbs, NM 88240 26 July 2012

10510 Superfortress Avenue, Suite C, Mather, CA 95655 (916) 854-1491

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DEPARTMENT OF THE ARMY AND AIRFORCE NATIONAL GUARD BUREAU INDUSTRIAL HYGIENE SOUTHWEST 10510 Superfortress Ave, Ste. C Mather, CA 95655

ARNG-CSG-IHSW

31 January 2012

MEMORANDUM THRU New Mexico Army National Guard, Deputy State Surgeon (DSS), 47 Bataan Blvd., Santa Fe, NM 87505

FOR Commander, Hobbs Armory, 502 Jack Gomez Blvd., Hobbs, NM 88240

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) and Indoor Firing Range Lead Dust Follow-Up for the Hobbs Armory, 502 Jack Gomez Blvd., Hobbs, NM on 26 July 2012.

1. References. See survey report.

2. General,

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW), an Industrial Hygiene Site Assistance Visit and Indoor Firing Range Lead Dust Follow-Up was conducted at the Hobbs Armory, 502 Jack Gomez Blvd. Hobbs, NM 88240 on 26 July 2011.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations in the contractor report (reference Attachment II). However, IHSW concurs with the observations and findings within the attached contractor report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. Commendable. None mentioned.

5. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. General clean-up of IFR area should be addressed ASAP and the Armory Clean-up SOP, included

ARNG-CSG-IHSW

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) and Indoor Firing Range Lead Dust Follow-Up for the Hobbs Armory, 502 Jack Gomez Blvd., Hobbs, NM on 26 July 2012.

8. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

P. For additional information please contact the undersigned at (916) 804-1707 or via email at

Non-Responsive

Industrial Hygiene

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DATE REFERENCES	General Duty Clause 5(a)(1)	NGB, OSHA Regulations
Estimated [Cost(s) COR		
ACTION		
SUSPENSE DATE		
CORRECTIVE ACTIONS (Abatement Plan)	Weapons should be cleaned on surfaces, e.g. tables, desks that are designated "for weapons cleaning only" and all surfaces should be cleaned after this event is completed.	Continue Sound Safety and Housekeeping Practices
RAC	n	None
SITE	Armory	Armory
HAZARD DESCRIPTION	Weapons are being cleaned throughout the Armory, on floor, on tables, etc.	No Significant Adverse Observations noted during this Industrial Hygiene Site Assistant Visit
CONTROL NUMBER cLOSED	Carlsbad- NM 072611- Executive Summary	Hobbs-NM- 072811-Exec. Summary

Industrial Hygiene Southwest

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS Violation Inventory Log

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ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> <u>but check with local Environmental Office</u>.
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

1. Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

a. Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

FY 2011 Follow-up Armory's SAV Lead Wipes Report For Hobbs Armory National Guard (NM ARNG) At 502 Jack Gomez Blvd., Hobbs New Mexico 88240



Prepared for:

Department of the Army National Guard Bureau Region Southwest Industrial Hygiene Office NGB-AVN-S1 20,000 Aviation Drive Reno Nevada, 89506-1200

By:

Non-Responsive

Armor Environmental Services, Ind 4442 Inverrary Blvd, Fort Lauderdale FL. 33319

14 Jan 2012



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FY 2011 Hobbs Armory Site Assistant Visit (SAV) Follow-Up Lead Wipe Sampling

1.0 INTRODUCTION

On July 26th, 2011, Certified Industrial Hygienist (CIH): Certified Hazardous Materials Manager (CHMM), and Senior Industrial Hygiene Technician, both of Armor Environmental Services, Inc (Armor), conducted a FY 2011 Follow-Up Armory Site Assistant Visit Lead Wipes inspection and sample collection (F/U Lead Wipe Survey) at the Army National Guard (ARNG) Armory located at 502 Jack Gomez Blvd., Hobbs N.M. 88240. The primary and local points of contact (POC) for information gathered during this F/U Lead Wipe Survey were on-NMANG, NC Occupational Health Program, New Mexico Army National Guard. Phone 505-271-7179: e-mail; Non-Responsive 502 Jack Gomez Blvd., Hobbs N.M. 88240: e-mail or none 505-474-2684.

SCOPE OF VISIT

The FY 2011 Follow-Up Armory Lead Wipes sampling was conducted at the direction of the National Guard Bureau Southwest Regional Industrial Hygiene Office, 10150 Superfortress Ave. Ste C, and Mather CA. 95655.

SAV purposes were to:

- Conduct follow-up Armory SAV inspections and conduct lead wipe sampling of surfaces that either by virtue of historical and/or present uses, had the potential for elevated levels of residual lead contamination. Included in this task were inspections and lead wipe sample collection from locations previously identified as having elevated surface lead levels;
- Conduct interviews to determine the status of the armory's indoor firing range with regards to its usage. Where on site are weapons broken-down or cleaned? Who uses the armory? As well as its occupancy; and civilian access/public usage of the facility:
- 3. Inspect each armory and report potential or physical hazards observed; and,
- 4. Deploy Radon Monitor: RADTRAK SN 4829066 @ 03:30 P.M. MCT in room 115 (Appendix 1, photo # 1).

3.0 FACILITY DESCRIPTION

The Hobbs armory was reportedly constructed sometime in 1985. Its construction is 1 storey (Appendix 1, photo #s 2 & 3) with brick exterior; and slab concrete floor, and a kitchen that has not been used since 1999.

According to Non-Responsive of the Hobbs armory, the space occupied by the former indoor firing range (IFR) was converted into a storage location and a maintenance bay (Appendix 1, photo # 4): and the former IFR was never used as a firing range. Consequently its closure per NGP 420-15, "Guidelines and Proceedures for Rehabilitation and Conversion of Indoor Firing Ranges" was not required.

Weapons are reportedly cleaned in the drill hall and the maintenance bay: and the vault and supply room on site were not accessed.

A schematic of the facility's layout is enclosed as Appendix 2.

4.0 BUILDING OCCUPANCY/USES

The armory's full time occupancy is 3 NM ARNG personnel who are assigned to the DET 2 920th unit: and here are no civilian employees at this armory. Weekend occupancy is 46 NM ARNG personnel: and civilian rent the drill hall twice monthly for activities such as weddings and birthday parties.

5.0 SURVEY PROCEEDURES

Ghost Wipe sample media were used for sample collection. Wipe sampling was accomplished following the American Standard for Testing and Materials (ASTM) E1792-96A, "Standard Specification for Wipe Sampling Materials for Lead in Surface Dust" protocol. A 12 X 12 inch square paper template was used to collect each sample, after which it was discarded: and a new unused similar template used to collect each additional sample.

Each collected wipe sample was placed in a clean zip-lock bag, and shipped via FedEx to Galson Laboratories (Galson), East Syracuse, NY (<u>www.galsonlabs.com</u>) for analysis for its lead content utilizing the modified NIOSH 9102/SW846 6010 B/C; ICP; GHOSTW.

For the purposes of this survey, the 200 µg/ft² standard was applied to all lead wipe sample locations within this armory: and 40 µg/ft² for break rooms, floor surfaces or any area that the public might possibly use for non-military functions.

Some former IFR occupied spaces provide direct access into drill halls or indoor walkways: so some samples were collected at these locations to indicate whether or not elevated surface lead levels exist in each, or were being inadvertently transported into, or out of either location.

Lead wipe samples were collected from the following horizontal surfaces:

Hobbs-01: IFR floor-south end of range at center (Appendix 1, photo # 6):
Hobbs-02: IFR floor-north end of range at center (Appendix 1, photo # 7):
Hobbs-03: Drill hall floor- center of N.W. corner (Appendix 1, photo # 8);
Hobs-04: Drill hall floor-center N.W. quadrant (Appendix 1, photo # 9);
Hobs-05: Drill hall floor-S.W. corner (Appendix 1, photo # 10);
Hobbs-06: Drill hall floor-N.E. corner (Appendix 1, photo # 11);
Hobbs-07: Drill hall floor-center of S.E. quadrant (Appendix 1, photo # 12);

6.0 OBSERVATIONS

Unusually heavy dust loading was not observed on horizontal surfaces in the spaces inspected inside the Hobbs armory. No health and/or safety infractions were noted or observed.

Page | 2

7.0 FINDINGS and RECOMMENDATIONS

a. Laboratory Report

Laboratory results of samples collected from horizontal surfaces in the Hobbs Armory are enclosed as Appendix 3: and summarized in Table 1below. Surface lead levels are reported in µg/ft².

Table1: Summarized Laboratory report: Horizontal Surfaces Lead Concentration: Hobbs Armory, NM

Sample I.D.	Sample Locations	Lead
Pb-Blank # 3	Blank	<10
Hobbs-01	IFR floor-south end of range at center	40
Hobbs-02	IFR floor-north end of range at center	<23
Hobbs-03	Drill hall floor- center of N.W. corner	<23
Hobbs-04	Drill hall floor-center N.W. quadrant	<23
Hobbs-05	Drill hall floor-S.W. corner	<23
Hobbs-06	Drill hall floor-N.E. corner Floor	<23
Hobbs-07	Drill hall floor-center of S.E. guadrant	<23

As can be seen in Table 1, the laboratory analytical report identified lead concentrations that were less than the 200 µg/ft² clearance criteria outlined in NGP 420-15, *Guidelines and Proceedures for Rehabilitation and Conversion of Indoor Firing Ranges.* Furthermore surface lead concentrations on at this armory did not exceed HUD's 40 µg/ft² criteria that IHSW applied surface locations outside of the converted IFR that the public might possibly use for non-military functions

8.0 TECHNICAL ASSISTANCE

For technical assistance regarding information found in this report, please contact:

Responsive, Industrial Hygienist

NGB, IHSW 1050 Superfortress Ave., Ste C, Mather, CA 95655

Non-Responsive Fax: 916-290-0177

HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS (Abatement Plan)	SUSPENSE DATE	ACTION	Estimated Cost(s)	DATE CORRECTED	REFERENCES
Weapons are being cleaned throughout the Armory, on floor, on tables, etc.	Armory	m	Weapons should be cleaned on surfaces, e.g. tables, desks that are designated "for weapons cleaning only" and all surfaces should be cleaned after this event is completed.			-		General Duty Clause 5(a)(1)
No Significant Adverse Observations noted during this Industrial Hygiene Site Assistant Visit	Armony	None	Continue Sound Safety and Housekeeping Practices					NGB, OSHA Regulations

Industrial Hygiene Southwest

Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

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Reference DA FORM 4754 VER: 15 OCT 2009

APPENDICES & ATTACHMENT

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Photo #1







Photo # 6

Photo # 3

Photo #4

Photo #7





Photo # 5

Photo #2





Photo #10

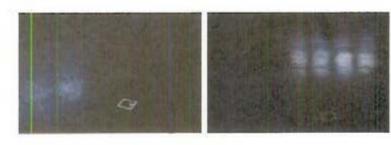


Photo #11

Photo #8

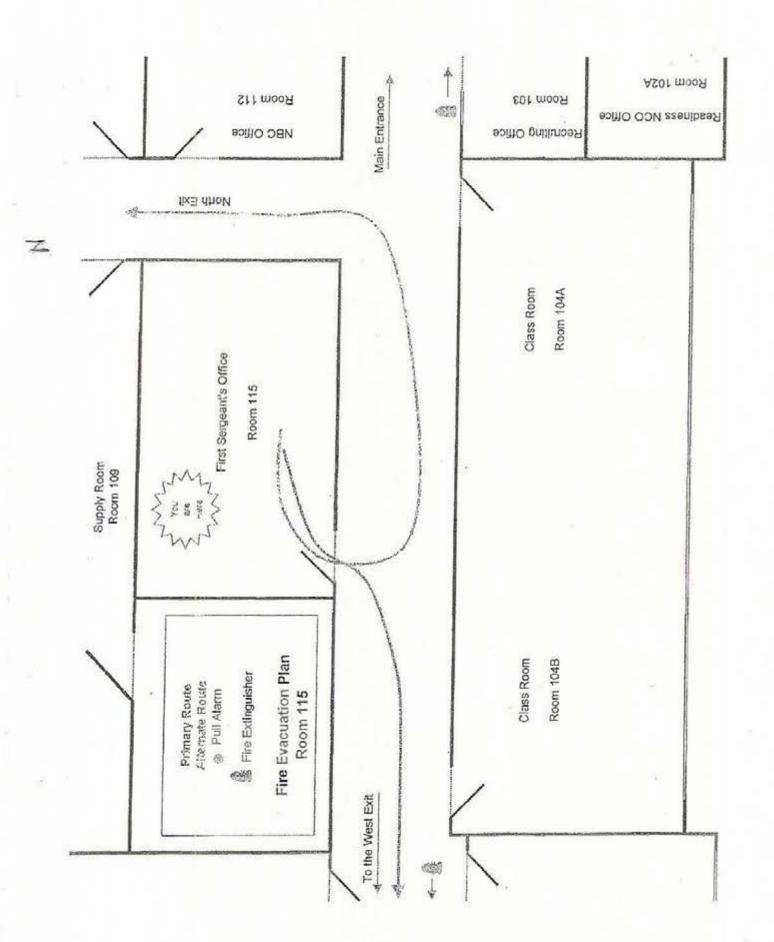
Photo #12

APPENDIX 2

Facility Layout Schematic

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APPENDIX 3

Laboratory Report & Chain-of-Custody Form



Non-Responsive

Armor Environmental Services, Inc. 4448 Inverrary Blvd. Fort Lauderdale, FL 33319 August 08, 2011

DOH ELAP# 11626



on-Responsive

Non-Responsive

Enclosed are the analytical results for the samples received by our laboratory on August 01, 2011. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Please contaction Responsive at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories



Enclosure(s)

Page 1 of 4 Report Reference:1 Generated:08-AUG-11 08:47

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LABORATORY ANALYSIS REPORT

6601 Kirkville Road East Syracuse, NY 13057 (315) 432-5227	Client Site Project No.	: Armor Environmental Services, Inc. : Hobbs Armory NM : NM F U Lead Wipes
FAX: (315) 437-0571	Date Sampled	: 26-JUL-11 Account No.: 18228
www.galsonlabs.com	Date Received	: 01-AUG-11 Login No. : L245679
	Date Analyzed	: 03-AUG-11
	Report ID	: 702099
		· · · · · · · · · · · · · · · · · · ·

Lead

Sample ID	Lab ID	Areaft2	Total ug	Conc Ug/ft2	
HOBBS-01	L245679-1	0.111104	<10	<90	
HOBBS-02	L245679-2	0.111104	<10	<90	
HOBBS-03	L245679-3	0.111104	<10	<90	
HOBBS-04	L245679-4	0.111104	<10	<90	
HOBBS-05	L245679-5	0.111104	<10	<90	
HOBBS-06	L245679-6	0.111104	<10	<90	
HOBBS-07	L245679-7	0.111104	<10	<90	

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

23	Level of quantitation Analytical Method OSHA PEL (TWA) Collection Media	: 10. ug : mod. NIOSH 9102/SW846 : NA : Ghost	6010C;ICP;GHOSTW / Date : (Submitted by: Approved by : D5-AUG-11 NYS DOH # : 11626 Karen Becker
>	-Less Than	mg -Milligrams	m3 -Cubic Meters	kg -Kilograms
	-Greater Than	ug -Micrograms	l -Liters	NS -Not Specified
	-Not Applicable	ND -Not Detected	ppm -Parts per Mil	Llion

Page 2 of 4 Report Reference:1 Generated:08-AUG-11 08:47

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LABORATORY FOOTNOTE REPORT

6601 Kirkville Road East Syracuse, NY 13057 (315) <32-5227 FAX: (315) 437-0571 www.galsonlabs.com

Client Name : Armor Environmental Services, Inc. Site Hobbs Armory NM t. Project No. : NM F/U Lead Wipes

Date Sampled : 26-JUL-11 Date Received: 01-AUG-11 Date Analyzed: 03-AUG-11 Account No.: 18228 Login No. : 1245679

Unless otherwise noted below, all quality control results associated with the samples were within established control limits.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded in order to fit the report format and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

1245679 (Report ID: 702099):

Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that in biased low.

SOPs: MT-SOP-9(14), im-mwvghost(10)

÷ -Less Than

5 -Greater Than NA -Not Applicable

mg -Milligrams ug -Micrograms ND -Not Detected

-Cubic Meters #3 -Liters ppm -Parts per Million

1

kg -Kilograms NS -Not Specified

Page 3 of 4 Report Reference:1 Generated:08-AUG-11 08:47

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			ł.		1	BEST	AVA	ILABL	ECO	PY									1
Armor Environmental Services, Inc 4448 Inverrary Blvd Fort lauderdale, FL 33319 954-578-7401	No. Por por	plingBadges TM Program.	22	Please indicate which OEL this data will be used for: OSHA PEL Cal OSHA Cal OSHA	Method Reference ⁴ Induction	NIOSH 9102/SV/84-6 ////D	<u>(</u>				~						Dapertime Date Mill	Page 1 of	
Phone No. : <u>Armor Environmental Serv</u> 4448 Inverrary Blvd Fort lauderdale, FL 33319 Phone No. : <u>954-578-7401</u>	Wipes Sample	Samples submitted using the FreeSamplingBadges TM Program.		Please indicate which O	Analysis Requested" Meth	NIOSH					*						7/24	, i i i i i i i i i i i i i i i i i i i	
	MA V	Samples subm			Analysis F	Surface Lead					*			10, etc.)*:			NOT-INGS LATE	nequireuments, railure to complete these tietus may result in å detay in your samples being processed.	14
Report To*: Armor Environmental Services, Inc 4448 Inverrary Blvd Fort lauderdale, Fl ⁰ 33319 hone No*: <u>954-578-7401</u>	WORY & NM Project:	rogram			Sample Units* (L, ml, min., in2, cm2, ft2)	MS/Er	6/ 34				-	- 30 6		. ing. plating. paintir	nd/or Tridymite)*:	+		aumerus, ramure to co r à delay in your sam	N 7-Jaw
Armor Environment 4448 Inverrary Blvd Fort lauderdale, Fl ^b 964-578-7401	R	Samples submitted using the FreePumpLoan TM Program ant Account No.*: Customer	in Filo		Sample Volume, Sample Time, or Sample Area*	16 112	~				*			Ubmitted (eg., welc	utz, Cristobalite, ar	ling area:		result	
Report To* : <u>Armor Envi</u> 4448 Inverr <u>Fort lauder</u> Phone No.* : <u>954-578-7401</u>	Site Name : h	omitted using the o.* : Customer	No. : 0018228		Collection Medium	Ghost wipes					~~			for each sample s	t be indicated (Qua	es present in samp	Non-vespolis	d as next day's bu	
Check if change of address New Clent ? [2] no	10 10 10	Samples submitted using t	Purchase Order No. : 0018228 Credit Card : Credit C	Email Results To Email Address :	Date Sampled	7/26/11	161	· · · · · · · · · · · · · · · · · · ·			>	c		Construction listed	silica needed mus	rocess/interference		n will be considere	
ALSON ORATORIES	37-0571 Mabs.com	lys (su	4 Business Days 35% 3 Business Days 50%	2 Business Days 75% Next Day by 6pm 100% Next Day by Noon 150% Same Day 200%	cation	10- 55	102	-03	-05	-06	20-			For Hexavalent Chromium: process must be listed for each sample submitted (eg., welding, plating, painting, etc.)*	For Crystalline Silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:	List description of industry or process/interferences present in sampli Comments:	Chain of Custody Relinquished by Received by LAB	Samples received after 3pm will be considered as next day's business	
For the second s	Fax:	Need	-P 999		port Re	SOBOR		1 Ge	nerat		►AUC		08:4			_	Relinque Receiver		

May, 2018

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Mr. Leon Lobban Armor Environmental Services, Inc. 4448 Inverrary Blvd. Fort Lauderdale, FL 33319

August 25, 2011

DOH ELAP# 11626

Account# 18228

Login# L245679

on-Responsiv

Enclosed are the revised analytical results for the samples received by our laboratory on August 01, 2011. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Per your request, all seven samples submitted for Lead were subcontracted to Environmental Hazards Services, L.L.C. to achieve a lower Level of Quantitation (LOQ). Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Please contact John Bailey at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,



Enclosure(s)

Report Reference:2 Generated:25-AUG-11 10:28 Page 1 of 5

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Environmental Hazards Services, L.L.C. 7469 Whitepine Rd Richmond, VA 23237

Telephone: 800.347.4010

Client: Galson Laboratories 6601 Kirkville Rd East Syracuse, NY 13057

Wipe Metals Analysis Report

Report Number: 11-08-03225 Received Date: 08/23/2011 Analyzed Date: 08/24/2011 Reported Date: 08/24/2011

Fax Number:

Project/Test Address: L245679

Client Number:

200869

Laboratory Results

Lab Sample **Client Sample** Wipe Area Concentration Analyte: Total Narrative Number Number (ft²) Metal (ug) (ug/ft²) ID 11-08-03225-001 HOBBS-01 Lead (Pb) 0.111104 <2.50 <23 11-08-03225-002 HOBBS-02 Lead (Pb) 0.111104 4.48 40 11-08-03225-003 HOBBS-03 Lead (Pb) 0.111104 <2.50 <23 11-08-03225-004 HOBBS-04 Lead (Pb) 0.111104 <2.50 <23 HOBBS-05 Lead (Pb) 0.111104 <2.50 <23 11-08-03225-005 <2.50 <23 Lead (Pb) 0.111104 11-08-03225-006 HOBBS-06 HOBBS-07 Lead (Pb) 0.111104 <2.50 <23 11-08-03225-007

> Page 1 of 2 Page 2 of 5 Report Reference:2 Generated:25-AUG-11 10:28

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Environmental Hazards Services, L.L.C

Client Number: 200869 Project/Test Address: L245679 Report Number:

11-08-03225

Sample Narratives:

Analyst: Non-Res

Method:

NIOSH 7300M

Non-Responsive

Reviewed By Authorized Signator

QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contains less than the reporting limit for each particular metal, based on a 50mL volume. The reporting limit for Mercury is 0.10ug and 2.5ug for all other metals.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. EHS sample results do not reflect blank correction. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

 Legend
 ug = microgram
 ug/ft² = micrograms per square foot

 mL = milliliter
 ft² = square foot

Page 2 of 2 Page 3 of 5 Report Reference:2 Generated:25-AUG-11 10:28

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Attachment 1

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ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Guam + Hawaii + California + Otegon + Washington + Nevada + Arizona + Idah + Utah + Wyoming + Montana + New Mexicu + Nebraska

Industrial Hygiene Site Assistance Visit

Las Cruces Armory

249 N. Armory Road Las Cruces, NM 88007

10510 Superfortress Avenue, Suite C, Mather, CA 95655 (916) 854-1491

Posted to NGB FOIA Reading Room May, 2018

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 708 of 1628

Industrial Hygiene Southwest's mission is to ensure all military personnel and military leadership is provided the specialized technical expertise, consultation and assistance to ensure all military operations and processes are conducted in a healthy manner

10510 Superfortress Avenue, Suite C, Mather, CA 95655 (916) 854-1491

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ARNG-CSG-IHSW

21 February 2013

MEMORANDUM THRU New Mexico Army National Guard, ATTN Non-Responsive DHN), 600 Wyoming Blvd NE, Albuquerque, NM 87123-1038

FOR Commander, Las Cruces Armory 249 N. Armory Rd, Las Cruces, NM 88007

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Las Cruces Armory, 249 N. Armory Rd, Las Cruces, NM conducted on 10 September 2012.

1. References. See survey report.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an Industrial Hygiene Site Assistance Visit and cursory review of safety related items and programs was conducted at the Las Cruces Armory 249 N. Armory Rd., Las Cruces, NM on 10 SEP 2012.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations in the contractor report (reference Attachment II). However, IHSW concurs with the observations and findings within the attached contractor report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. See survey report.

4. Commendable.

a. The facility personnel were helpful during this SAV.

5. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. Ensure annual and monthly fire extinguisher checks are maintained on the tag found on the extinguisher and they are current. (para. 4.10) (RAC 4)

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SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Las Cruces Armory, 249 N. Armory Rd, Las Cruces, NM conducted on 10 September 2012.

 b. Locate the asbestos survey for this building or contract to have a licensed firm to perform an asbestos survey and assessment. This should be part of the NM ARNG Asbestos Management Plan. (para. 4.4) (RAC 3)

c. Provide personnel with asbestos awareness training to help prevent them from contaminating others, the building or themselves. (para. 4.4) (RAC 4)

d. Secure compressed gas cylinders to prevent potential missile hazards. (para. 4.3)

6. Violation Correction Log.

a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

 Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

 Corrective measures should be implemented and accomplished at the lowest levels possible. Hazards and Corrective Measures that cannot be corrected at the facility level, and require assistance from higher headquarters or from the state level, should be elevated to the Quarterly State/BN Safety Council Meeting for resolution.

 Recommend a representative from the facility attend all quarterly/monthly meetings to ensure the appropriate emphasis and corrective actions are followed for hazard resolution and abatement of the observations made during this visit.

 Retain entries of the items corrected, or closed, for future reference. This may be accomplished by posting completed items within the Corrected Hazard Sheet portion of the Excel Violation Correction Log Workbook we've provided.

 The preferred method to document and track identified hazards for resolution is for their entry into the Reserve Component Automation System – Safety and Occupational Health (RCAS-SOH) Program.

 b. IHSW recommends further program refinement through written documentation for standardized guidance to the personnel performing the processes. Conducting Hazard Assessments consistent with 29 Code of Federal Regulations (CFR) 1910.132, General Requirements for Personal Protective Equipment and AR 40-5, Preventive Medicine, would provide this continued program refinement.

7. Hazard Assessment/Job Safety Analysis (JSA).

a. Documenting the Hazard Assessments provides a method to obtain initial and periodic review from the Industrial Hygiene, Occupational Health and Safety Professions located at the JFHQ/HQ/state level.

b. The Hazard Assessments should be used as written training materials for the new, transfer and unit personnel working under the auspice of the facility.

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ARNG-CSG-IHSW

SUBJECT: Executive Summary for Industrial Hygiene Site Assistance Visit (IHSAV) for the Las Cruces Armory, 249 N. Armory Rd, Las Cruces, NM conducted on 10 September 2012.

c. IHSW recommends facility supervisory staff and facility personnel conduct initial Hazard Assessments outlined in AR 40-5, Army Preventive Medicine (Section V) and 29 CFR 1910.132 and submit for review and obtain approval from the state Industrial Hygiene, Occupational Health and Safety Professions.

d. We have provided an appendix with Hazard Assessments (HA) examples of some of this facilities operations. Additional operations can utilize this format to design HA not observed during this SAV.

e. An integral and important factor of the Hazard Assessment/JSA process is for the review and guidance from qualified Safety, Occupational Health and Industrial Hygiene professions located at the higher headquarters level or state level. For this reason, the Hazard Assessments (to include all pertinent and supporting documents) should be completed by the facility personnel and forward to the New Mexico Army National Guard Industrial Hygiene, Occupational Health and Safety Office for final review and approval (signature).

f. Job Safety Analysis (JSA's)/Hazard Assessments.

NOTE: The Hazard Assessments can be used for monthly meetings to brief/train, and document large group training events and activities.

8. IHSW recommends the Senior Unit Commander of this Facility and any Co-Tenant Organizations or Units, review and provide assistance with implementation of these recommendations. This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

9. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

10. For additional information please contact the undersigned at (916) 854-1491 or via email at



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NGB, IHSW, CIV Industrial Hygiene

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3

CONTROL				CORRECTIVE ACTIONS	SUSPENSE	ACTION	Estimated	DATE	DEFEDENCES
NUMBER	HAZARD DESCRIPTION	SITE	RAC		DATE	OICINCOIC	Cost(s)	CORRECTED	NELEVENCES
CLOSED									2014 National Fire
NMLCA-101012- 4.8	The kitchen hood was not able to be tested for duct velocity due to an electrical shut down in the kitchen.	Las Cruces Armory	4	Measure the duct velocity of the kitchen hood when the power is restored to ensure the velocity exceeds the 500 fpm requirement outlined in the 2011 National Fire Protection Association Standard 96, Section 8.2.1.1.	9		¥.		Protection Association Standard 96, Section 8.2.1.1.
NMLCA-101012- 4.4	An asbestos survey could not be located during this IH Assistance Visit.	Las Cruces Armory	3	Either locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.					1910:1001()(3)()
NMLCA-101012- 4.4	Personnel have not been provided with asbestos awareness training.	Las Cruces Armory	.4	Based on the findings of this survey, provide awareness training to assigned personnel for the specific types of asbestos in this Armory.					29 CHK 1910.1001 ar 1101 ar AR 40-5
NMLCA-101012- 4.10	All extinguishers except two in the kitchen and office areas were current on their annual and monthly inspections.	Las Cruces Armory	4	Ensure all fire extinguishers are provided a monthly inspection and document these inspections on the attached inspection cards.					29 CFR 1910.157 (c)(1)
NMLCA-101012- 4.10	 The GFCI outlet located in the men's restroom did not trip at 7 mA. 	Las Cruces Armory	. 4	Repair or replace the GFCI outlet in the men's bathroom.					NFPA 70, Article 210-8
NMLCA-101012- 4.10	 An emergency eyewash/shower in the maintenance bay has not been inspected or tested. 	Las Cruces Armory	4	Ensure the emergency eyewash/showers undergo a weekly operational test and document the results of these tests.					2007-1-0057 ISNA
NMLCA-101012- 4.10	 Compressed gas cylinders are not secured from tipping within the storage cage. 	Las Cruces Armory	e	Firmly secure compressed gas cylinders against accidental distodgement					1910.253 (b) (2) (ii)

Reference DA FORM 4754 VER: 15 OCT 2009

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

Violation Inventory Log

Industrial Hygiene Southwest

Page 1 of 1

ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- 6. Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> <u>but check with local Environmental Office</u>.
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- a. Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- b. Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> requirements may be reduced after it has been determined non-hazardous levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not</u> be permitted

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. Completely clean each room before moving on.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only after mop heads have been cleaned.

<u>Recommended Follow-up Housekeeping Practices</u> after Clearance sampling of cleaned area is performed by certified personnel:

 Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

a. Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - Only full-time technicians and traditional soldiers using facility during the month. (Cleaned Monthly)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (Cleaned 2x's Monthly)
 - c. Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and **is not a Converted IFR space**, you may continue to utilize the Armory space before the officials re-test this space. Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.



IH ASSISTANCE VISIT

New Mexico Army National Guard Las Cruces Armory 249 North Armory Road Las Cruces, New Mexico 8800?

December 14, 2012

Prepared for:

Industrial Hygiene Southwest 10510 Superfortress Avenue, Suite C Mather, California 95655

Prepared by: Non-Responsive

Industrial Hygiene Technician

Reviewed by:



Industrial Hygiene Program Manager

Project #AL127213

640 EAST WILMINGTON AVENUE SALT LAKE CITY, UT 84106

4106 TELEPHONE

TELEPHONE: 801-466-2223

FAX: 801-466-9616

E-MAIL: IHI@IHI-ENV.COM

SALT LAKE CITY

EMERYVILLE

PHOENIX

DENVER

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References Assessment Criteria

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Appendix C Chemical Inventory

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EXECUTIVE SUMMARY

On September 10, 2012, Non-Responsive f IHI Environmental (IHI) conducted an IH. Assistance Visit at the Las Cruces Armory. The primary point of contact for information gathered during this survey was Non-Responsive 575) 474-2426, Non-Responsive

The objectives of this IH Assistance Visit were to perform the following activities:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system, and collect indoor air quality data;
- review hazardous material storage and use procedures;
- review safety training and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- · perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

Significant findings for this IH Assistance Visit can be found in the Industrial Hygiene Southwest – Violation Inventory Log, located in Appendix K of this report.

The report that follows this Executive Summary should be read in its entirety because it includes important information not included in this summary, such as task descriptions, work space locations, regulatory requirements, and additional recommendations.

IH Assistance Visit NMARNG – Las Cruces Armory Executive Summary

IHI Environmental Project No. AL127213

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1.0 INTRODUCTION

On September 10, 2012, Non-Responsive f IHI Environmental (IHI) conducted an IH Assistance Visit at the Las Cruces Armory located at 249 North Armory Road, Las Cruces, New Mexico 88007. The primary point of contact for information gathered during this

survey was

1.1 Objectives

Evaluate the occupational environment of the administrative areas in the armory to determine the presence of operational health and safety risks, and make recommendations for corrective actions or follow-up work to manage those risks.

1.2 Scope of Work

To achieve the above objectives at this facility, the survey included the following work:

- collect lead wipe samples;
- evaluate the condition of painted surfaces and collect paint chip samples for lead analysis where painted surfaces are peeling;
- inspect the interior rooms of the armory for water damage and the presence of fungal growth;
- review asbestos survey and assessment files and determine if documentation of asbestos awareness training is current;
- evaluate the condition of the Heating, Ventilation, and Air-Conditioning system and collect indoor air quality data;
- review hazardous material storage and use procedures;
- review safety training, and record keeping;
- perform a ventilation survey on the kitchen stove hood (if present);
- · perform a noise survey on the kitchen appliances; and
- conduct a safety walk-through evaluation and note any existing safety hazards.

2.0 PROCESS DESCRIPTION

The Las Cruces Armory has thirty-eight full-time guard members. The armory has offices used for administrative purposes, a training area, drill floor, supply rooms and vaults, restrooms and locker rooms, kitchen, maintenance bay, converted indoor firing range, and a mechanical room. There are six state maintenance personnel and 22 participants in the Sheriff's Academy who also work in this facility. Civilian activities carried out in this armory include the Sheriff's Academy and the drill hall is rented out by family readiness for shows.

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 722 of 1628 Army National Guard members clean weapons on the drill hall floor quarterly.

3.0 METHODS AND APPLICABLE REGULATIONS AND STANDARDS

3.1 Lead Wipe Sampling

Lead residue (dust) wipe samples were collected on horizontal surfaces, such as the drill floor, kitchen, administrative areas, and indoor firing ranges (where present) to determine housekeeping standards. Lead Wipe[™] brand wipes were used with a 100-square-centimeter template. The wipes used conform to American Society for Testing and Materials (ASTM) E1792, *Standard Specification for Wipe Sampling Materials for Lead in Surface Dust*. The collected wipe samples were placed in clean and labeled plastic containers. Samples were submitted to ALS Laboratories for analysis, using National Institute for Occupational Safety and Health (NIOSH) Method 7300. See Appendix I for sample locations and Appendix J for laboratory results.

The Mather, California, office of Industrial Hygiene Southwest has developed a Standard Operating Procedure (SOP) for lead, which is a blend of Occupational Safety and Health Administration (OSHA), U.S. Department of Housing and Urban Development (HUD), and Army regulations. Essentially, this SOP sets forth a criterion of 40 micrograms of lead per square foot (μ g/ft²) for converted indoor firing ranges, break rooms, floor surfaces, or any area that might be used for non-military functions. A 200- μ g/ft² criterion has been established for tool rooms, maintenance bays, furnace rooms, boiler rooms, storage closets, and other areas where the general public is not expected to visit.

3.2 Painted Surface Evaluation

The interior of the armory was visually inspected for peeling paint on the walls and ceilings.

3.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

The interior of the armory was visually inspected for signs of moisture intrusion that could result in fungal growth. Any signs of moisture intrusion (e.g., discoloration, staining, blistering) were noted and documented on a drawing for a follow-up evaluation.

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3.4 Asbestos Management

Armory personnel were asked if an asbestos survey and assessment had been conducted and whether there was a written Operations and Maintenance Program for the facility. IHI also reviewed any asbestos awareness training records.

3.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

The heating, ventilation, and air-conditioning (HVAC) systems that serve the armory were evaluated. This evaluation consisted of a visual inspection of the system to note any obvious problems, and a review of the facility maintenance plan, if one was available.

Carbon dioxide (CO₂), temperature, and relative humidity were measured throughout the armory using a TSI Model 8762 IAQ-Calc[™] Monitor. The unit was calibrated before use with certified zero gas and 1,000-ppm CO₂ span gas. See Appendix E for IAQ data.

Carbon dioxide is a normal constituent of exhaled breath and is commonly measured as a screening tool to evaluate whether adequate fresh, outdoor air is being provided. If typical CO₂ levels within a fully occupied building are maintained at or less than 1,000 ppm, with appropriate temperature and humidity levels, complaints about indoor air quality should be minimal (American Society for Testing and Materials (ASTM) – International D6245-12, *Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality*). If a building exceeds this guideline, it should not be interpreted as an unhealthy or hazardous situation. An elevated CO₂ level is only an indication that the amount of outside air being brought into a building may be inadequate for the number of people present, or is poorly distributed, and further investigation may be warranted.

In building areas where there are potential sources of CO₂ other than exhaled breath, the guidelines above cannot be used. The OSHA standard for CO₂ should be used in these instances. The OSHA standard is an eight-hour time-weighted average (TWA) of 5,000 ppm with a short-term 15-minute average limit of 30,000 ppm.

3.6 Hazard Communication and Hazardous Material Storage

A review of the armory's chemical inventory and Material Safety Data Sheet (MSDS) file was accomplished. Chemical storage areas, i.e., flammable storage cabinets/rooms, were also inspected.

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3.7 Safety Training and Record Keeping

A review of safety training programs and documentation was performed to determine if the armory's site-specific training programs and annual documentation were current.

3.8 Kitchen Ventilation Survey

Duct velocity measurements were collected on facility kitchen exhaust hoods (when present), using a TSI VelociCalc, Model 9515.

The 2011 National Fire Protection Association Standard 96, Section 8.2.1.1, requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 feet per minute (fpm).

3.9 Kitchen Appliance Sound-Level Measurements

Sound-pressure levels of the kitchen appliances (when present) were measured using a Sound Level Meter in the dBA and dBC ranges, with the meter set on slow response. DD Forms 2214 are provided in Appendix M.

3.10 General Safety Walk-Through

A limited Fire Life Safety Code walk-through evaluation of the armory was performed to:

- document the presence of a fire alarm,
- determine if fire extinguishers are properly mounted and current on their monthly and annual inspections,
- determine if eyewash station inspections are current, and
- document any fire or safety hazards in the armory.

3.11 Equipment Used

The following equipment was used for this survey.

Туре	Model Number	Serial Number	Calibration Date
TSI VelociCalc [™] . Meter	9515	T95150720007	10/13/2011
TSI IAQ Cale™ .	8732	02100504	03/19/2012
3M [™] Sound Level Meter	SM-200	SD20010465	09/12/2011

The calibration certificates for these instruments are attached in Appendix H.

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3.12 Quality Assurance

IHI employs, at a minimum, the following methods to help assure quality of field

investigations and reports:

- Use of appropriately educated and experienced personnel;
- Documentation of pertinent field and sampling information
- Continuing education of technical personnel through attendance at training sessions and conferences, and literature review;
- Peer and supervisory review of sampling strategy, field methods, calculations, and reports;
- Strict adherence to method requirements, in particular to NIOSH and OSHA standard methods, including strict chain-of-custody protocol;
- Use of accredited laboratories, or, in cases where specific accreditation is not available, choice of laboratories of good reputation, having strong QA/QC programs.
- Calibration of instruments, including field calibration via manufacturers' recommended procedures and routine (typically annual) off-site calibration of equipment via certified third parties.

4.0 FINDINGS AND RECOMMENDATIONS

4.1 Lead Wipe Sampling

Analytical results for lead wipe sampling indicate all locations were below the analytical criterion outlined in the IHSW SOP. See Appendix I for a data table and a drawing showing sample locations and Appendix J for the laboratory reports. Photographs were taken of each sampling point and are presented in Appendix C.

Recommendation

None

4.2 Painted Surface Evaluation

Peeling or damaged paint was not observed in this armory.

Recommendation

None

4.3 Moisture Intrusion and Limited Visual Fungal Growth Evaluation

Moisture intrusion, water damage, and fungal growth were not observed in this facility.

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Recommendation

None

4.4 Asbestos Management

An asbestos survey could not be located for this armory. Personnel have not been provided with asbestos awareness training.

Recommendations

 Contract with a licensed firm to perform an asbestos survey and assessment of this armory.

Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.5 Heating, Ventilation, and Air-Conditioning Systems and Indoor Air Quality

The armory is heated by four roof-mounted combination units and four roof-mounted heat vent units with individual smaller heaters in the maintenance bay and former indoor firing range (IFR). Air conditioning is provided by four roof-mounted swamp coolers.

The average outdoor CO_2 concentration at the time of the survey was 330 parts per million (ppm). The highest CO_2 concentration measured inside the building was 538 ppm, which should not result in indoor air quality complaints.

Building air temperatures ranged from about 71 to 74°F and relative humidity was between 43 and 51 percent during the testing period. Air temperatures were within the recommended comfort range of 68-75°F and the relative humidity was within the recommended comfort range of between 30 and 60 percent. Low relative humidity is common in New Mexico the majority of the year. Humidity levels above 60 percent can result in proliferation of bacteria and fungi, while levels below 30 percent can cause dry eyes, skin, and mucous membranes.

New Mexico State maintenance personnel maintain all HVAC units in the armory.

Recommendation

None

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Recommendation

None

4.8 Kitchen Ventilation Survey

There is one exterior ceiling-mounted exhaust fan that serves the kitchen appliances. Duct velocity measurements were not able to be obtained since the power was isolated in the kitchen by an electrical contractor.

Recommendation

1. Measure the duct velocity of the kitchen hood when the power is restored to ensure the velocity meets the 500-fpm requirement outlined in the 2011 National Fire Protection Association Standard 96, Section 8.2.1.1.

4.9 Kitchen Appliance Sound-Level Measurements

All of the kitchen appliances measured produce noise levels well below the hazardous noise criterion of 85 dBA. Based on this information, there is no need for noise reduction measures or additional noise dosimetry surveys for this area.

Recommendation

None

4.10 General Safety Walk-Through

Housekeeping throughout the facility was good.

There is a fire alarm in this facility. Simple-Grinnell performs the inspections on this system.

Fire extinguishers are strategically located throughout the armory. All extinguishers except two were current on their annual and monthly inspections.

 There is one eyewash/shower station in this facility, but no chemical use that would require one. Weekly inspections are not performed on this eyewash.

5. Fire evacuation routes are posted in most rooms of this armory.

Electrical panel boxes were inspected and were found to contain no exposed wiring or openings in the panel. 7. The GFCI outlet located on the wall to the left of the sinks in the men's restroom did not trip at 7 milliamps.

 Compressed gas cylinders located in storage in the former indoor firing range were not secured.

Recommendations

1. Repair or replace the GFCI outlet in the men's restroom.

2. Ensure the emergency eyewash/showers undergo a weekly operational test and document the results of these tests.

Ensure all fire extinguishers are provided a monthly inspection and document these inspections on the attached inspection cards.

4. Firmly secure compressed gas cylinders against accidental dislodgement.

5.0 PROJECT LIMITATIONS

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, IHI's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. IHI assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of IHI, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since IHI is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

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6.0 **PROJECT APPROVAL**

This IH Assistance Visit was reviewed and approved by:



November 30, 2012 Date

Industrial Hygiene Services Manager

Technical Assistance: For technical assistance regarding information found in this report or the performed survey, please contact **NON-Responsive** 801-466-2223, or **Non-Responsive** of the Southwest Regional Industrial Hygiene Office at 916-804-1707.

Contact the State Safety and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations are needed.

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Appendix A

References

- American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice
- American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices
- American National Standards Institute (ANSI)/Illuminating Engineering Society (IES); Industrial Lighting.
- American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment
- AR 40-5, Preventative Medicine
- AR 40-10, Appendix B Health Hazard Assessment Program in Support of Army Material Acquisition Decision Process
- AR 385-10, The Army Safety Program
- Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation.

National Safety Council, Fundamentals of Industrial Hygiene

NOR 385-10, Army National Guard Safety and Occupational Health Program

TB MED 503, The Army Industrial Hygiene Program

- TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide
- TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997
- Title 29, Code of Federal Regulations (CFR), 2011, revision Part 1910, Occupational Safety and Health Standards

Appendix B

Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in 29 CFR 1910, ACGIH Industrial Ventilation Manual, and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD¬1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling was conducted in compliance with applicable NIOSH Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL). American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL).

Occupational Safety and Health Administration (OSHA)

OSHA has established Permissible Exposure Limits (PELs) for workplace toxic and hazardous substances listed in 29 CFR 1910.1000 Table Z-1 Most OSHA PELs are based on 8-hour time weighted averages (TWAs); when sampling periods differ from 8 hours, the result must first be converted to an 8-hour TWA before comparing it to the OSHA PEL. Some OSHA PELs are based on Short Term Exposures Limits (STEL) of 15 minutes of worst case exposure or Ceiling Limits of worst case peak exposures (sampled as a 15 minute exposure if direct-reading methods are not available).

OSHA regulations are legally enforceable. Employers are required to maintain employee exposures below PELs. The best practice is to eliminate hazards and use safer substitutes. Alternatively, engineering and/or administrative (work practice) controls may reduce exposures to acceptable levels. Personal protective equipment should be the solution of last resort, implemented after all other efforts to eliminate the hazard have been exhausted or deemed infeasible. OSHA 29 CFR 1910.134 covers the use of respiratory protection in the work place.

American Conference of Governmental Industrial Hygienists (ACGIH)

Unlike the OSHA PELs, the ACGIH TLVs are not consensus standards; however, TLVs represent a scientific opinion based on a review of existing peer-reviewed scientific literature by committees of experts in public health and related sciences.

Occupational Exposure Limit

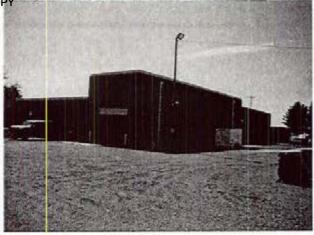
In accordance with the Department of the Army (DA) Pamphlet 40-503, Industrial Hygiene Program (DA PAM 40-503), "The DA mandates the use of ACGIH TLVs when they are more stringent than OSHA regulations or when there is no PEL." The DA defines the resulting exposure limit as the Occupational Exposure Limit (OEL). Appendix C

Photo Log

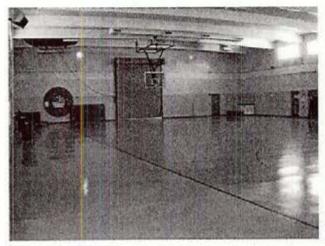
100



Photograph 1 Las Cruces Armory, Front, Exterior



Photograph 2 Las Cruces Armory, Rear, Exterior



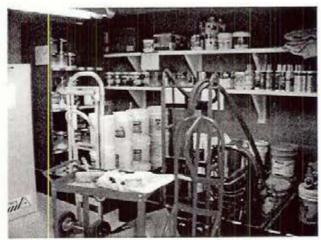
Photograph 3 Las Cruces Armory, General View, Interior



Photograph 4 Las Cruces Armory, Maintenance Bay



Photograph 5 Flammable Storage Room



Photograph 6 Flammable Storage Room



Photograph 7 Flammable Storage Cabinet closed



Photograph 8 Flammable Storage Cabinet open



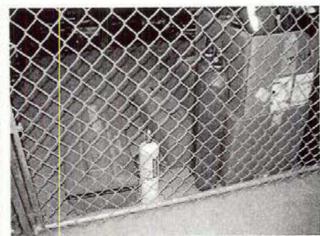
Photograph 9 Flammable Storage Cabinets closed



Photograph 10 Flammable Storage Cabinets open



Photograph 11 Converted Indoor Firing Range



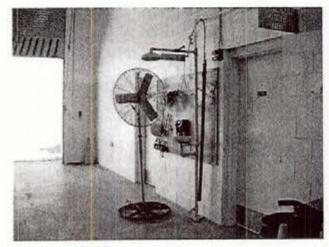
Photograph 12 Unsecured Gas Cylinders in Converted IFR



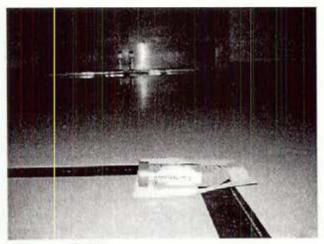
Photograph 13 Fire extinguisher in kitchen without inspections



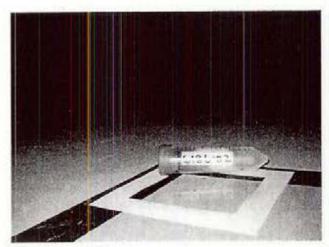
Photograph 14 Non-working GFCI outlet in restroom



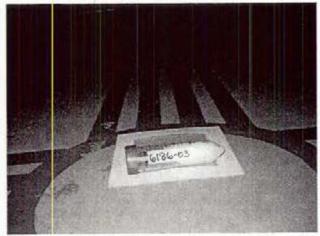
Photograph 15 Emergency eyewash/shower station without inspections



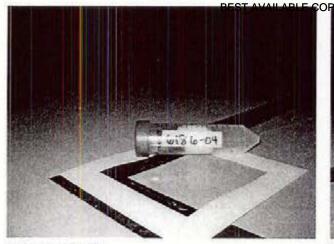
Photograph 16 Location of lead wipe sample number 6186-01



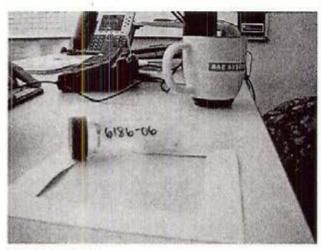
Photograph 17 Location of lead wipe sample number 6186-02



Photograph 18 Location of lead wipe sample number 6186-03



Photograph 19 Location of lead wipe sample number 6186-04



Photograph 21 Location of lead wipe sample number 6186-06



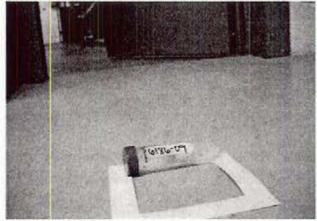
Photograph 20 Location of lead wipe sample number 6186-05



Photograph 22 Location of lead wipe sample number 6186-07



Photograph 23 Location of lead wipe sample number 6186-08



Photograph 29 Location of lead wipe sample number 6186-09

Appendix D

Chemical Inventory

RRIAL INVENTURY	ET 1
HAZARDOUS MATE	CABIN

ſ	BODICT NAME	Manufacture	NSN	II	QTY	MSDS BOOK LOCTATION
-		Oatev	LB	8 oz.	7	
		Sdl	LB	16 oz.		
		Bondo	LB	14 oz.	2	
	Body Filler	All alan	al	16 02.	2	
Ü	Ice Machine Cleaner	INV Calgui		10 01	N	
Sar	Sanitizing Concentrate	NV calgon	ΓB	T0 07.	1-	
d	Pine Thread Sealent	Rector Seal	LB	4 02.	- 1	
	colder nacte Flux	Oatey	LB	8 0z	57	
	Diumbare Duttv	Oatev	LB	14 oz.	4	
	Fluitbourd Final	UAP .	LB	16 oz.	0	
	Fast and Final	13	di	37.07	/	
	Gloss off	Krud Kutter	r.	25.05	/	
	Stripper Qk53	WM Barrio	ILB	1 dt	1 6	
0	SAF 15-40 engine oil	Bob Cat (exxon)	LB	32 0z	2-1	
20	CAE 10 20 Sunthetic Oil	Vavoline	LB	32 oz.		
TO I	The count offer	Passage	LB	4 oz.		
		Adhacing custame	IMil	.338 oz.	4	
U	Grade Athread Locker	Adliesive systems		37 62	6	
	DOT 3 Brake Fluid	Balkamp	ILB	32.02.		
	2 cvcle oil Mix	Stihl	LB	2 02.	4 0	
1	the Machine Cleaner	Manitowoc	LB	gallon		
L	room Drite Coil Cleaner	Nu calgon	LB	gallon		
	Alli Dire con course	Ctihl	LB	gallon	rl	
	Bar UII	21111	al	Gallon	/ /	
	Widshield wash	Napa	3	In I Chan and 7 E and	1	
	Hvdraulic oil	Bob Cat	LB	1 gallon and 2.2 gal	10	
5	Vynl cove Base Adhesive	Armstrong	[B	30 oz tubes	17	
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			the second second second			and a second sec

DATE: $\mathcal{H}\mathcal{P}r'\mathcal{U}\mathcal{H}/\mathcal{2}\mathcal{L}/\mathcal{2}$ Inventory Performed by Address9 Armory Rd. Las Cruces rev 88007 Storage Location POL Room

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	PRODUCT NAME XIM Primer	Manufacture XIM Products inc	NSN	UI 23.05	QTV V	MSDS BOOK LOCTATION
	Semi Gloss White	Rust Olem Corp.	LB LB	15.02. 15.02	5	
	Primer	Rust Olem Corp.	LB	15 oz.	2	
	Painters Touch	Rust Olem Corp.	LB	12 02.	/	
	Gumout Carb Cleaner	ITW Global	LB	19 02	h	
	Esmalte	Rust Olem Corp.	LB	15 oz.	m	
	Clean Metal Primer	Rust Olem Corp.	LB	12 oz.	S	
	Controls Rust	Sherwin Williams	LB	12 02.	53	
	Gloss Protective Enamel	Rust Olem Corp.	LB	12 02.	2	
	Enamel Gloss Black	Rust Olem Corp.	LB	12 02.	4	
	P touch x2 gloss brown	Rust Olem Corp.	LB	12 oz.	7	
	Gloss Clear wood finish	Deft Inc.	LB	11 02	20	
	Satin Clear wood finish	Deft Inc.	LB	11 oz.	/	
	Electro contact cleaner	LPS Labratories	LB	11.oz	1	
	Insect Repellant	Chemsica	LB	6.5 oz	3	
	Industrial Touch up Paint	CR Laurence	LB	11 oz.	en	*
	Chisel Paint Stripper	Loctite	LB	18 oz.	1	
-	Polyurethane clear semigloss	Midway Corp.	LB	11.5 oz.	1	
(CELSE)	Screwloose Super Penetrant	CRC industries	LB	11 oz.	Ч	
	WD 40	WD 40	LB	11 oz	1	
8 1	Tar Gone	Arrow Magnolia	LB	16 oz.	S	
	Evap Foam No Rinse	Nu Calgon	LB	18 oz.	r-4	
	3M-Hi Strength 90	3M	LB		4	
	Great Stuff Foam	Dow Chemical Corp.	LB	16 oz.	m	
	Ton coats Gloss White	ROC Salas Inc	al	10.07	10	

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 741 of 1628 HAZARDOUS MATERRIAL INVENTORY CABINET 2 sheet 2

IMSDS BOOK LOCTATION									•									*							
ΔTΛ	5	2	N	~	clo	2	2	11 .	4	/	5	/	2	6											
IN	12 oz.	12 oz	32 oz.	17 oz.	10.1 oz	10 02.	10.1 oz	11 ož.	1102.	20 oz.	24 oz	32 oz.	Gal, 16 oz.	14.1 oz.								A and a			
NSN	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB
Manufacture	Rust Oleum Corp	Zynolyte Products	DAP Inc.	Rust Oleum Corp	GH International	ICI Paints	Acrylic Adhesive	Carlisle Syntec Adhesive	Carlisle Syntec Adhesive	Homex	Slime	Tite Bond	Goof Off	True Sev											
PRODUCT NAME	Aluminum Enamel		#33 Glazing Compound	Flourescent Marking paint	Black Jack Roof Cement	Liquid Nails	Power Grab Adhesive	Sure Seal Lap Sealent	Sure Seal Lap Sealent	Spray Texture		01	Goof Off	Propane											
Item #	28	30	34	35	37	38	39	40	42	46	48	49	50	53	-					-	_	-	-	_	-

HAZARDOUS MATERRIAL INVENTORY Fire Cabinet #3

Item #	PRODUCT NAME	Manufacture	NSN	IU	QTY	MSDS BOOK LOCTATION
1	Paint thinner	Startex	LB	2.5 gallon	M	FC3
2			LB			
m I	Xylene	Startex	LB	1 gallon	9	FC3
4	50		LB			
5	WM&R Naptha	Startex	LB	1 gallon	1	FC3
6	Laguer Thinner	Startex	LB	1 gallon	X	FC 3 .
7	GR1699	Gaco western	LB	5 Gallon	5°.*	FC 3
00			LB		1992	
6			LB			
10			LB			
11			LB			
12			LB			
13			- EB			
14 1			LB			
15			LB			
16			LB	-		
17			LB			
18			. LB		*	
19			LB	_		
20			LB			
51			LB	_		
22			LB			
23			LB			
24			LB			
75			LB LB		-	

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CABINET 4

II QTY MSDS BOOK LOCTATION	1 gallon /	1 gallon /	1 gallon / 7	1 gallon /	1 gallon /		32 oz. /	32 oz. /	32 oz. /							gallon 6	~	.gallon Z	.gallon 7.	gallon /	1 gallon /	gallon	1 gallon 2	32 oz. /	1 million /
NSN UI	LB 1	LB 1	LB 1		LB 1	LB	LB 3	LB 3	LB 3	LB 1	LB	LB 1	LB 1	LB 1	LB	LB 1	LB 1	LB 3	- 0						
Manufacture	KWAL Paint		Rust Oleum	Rust Oleum	Rust Oleum							coronado Ind.		Master Chem Industries	KWAL Paint	KWAL Paint	KWAL Paint	Dunn Edwards	Dunn Edwards	Min wax					
PRODUCT NAME	Epoxy Enamel		Protective Enamel	Door Paint	Rusty Metal Primer							Corotile Urethane		KILZ	high Gloss enamel	Rust Inhibitive Primer	Polyurathane wood finish	Syn Lustro Enamel	Galv. Alum Primer	Poly shades wood stain					
Item #		2	3	4	5	6	7	8	6	10	-	12	13	14	15	16	-	18	19	20	21	23	24	25	

DATE: *APL*, *C*, *Y*, *L* Inventory Performed by Address!9 Armory Rd. Las Cruces NM 88007 Storage Location POL Room

Posted to NGB FOIA Reading Room May, 2018 FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 744 of 1628

HAZARDOUS MATERRIAL INVENTORY AC1-1

Item #	PRODUCT NAME	Manufacture	NSN	IN	QTY	MSDS BOOK LOCTATION
1	G-Prime acrylic primer	KWAL Paint	LB	1 gal	Ц	
2	Ambassador high gloss enamel	KWAL Paint	LB	1 gal	5	
3	Accupro 5141 curb paint	KWAL Paint	LB	1 gal	ц	
4			LB	1 gal		
5	Accupro 9210	KWAL Paint	LB	1 gal	7	
9	Accupro 3210	KWAL Paint	LB	1 gal	4	
7	Accupro 3210	KWAL Paint	LB	1 gal	4	
00	Accupro 3210	KWAL Paint	EB .	1 gal	· ~	
6	Ambassador 3220	KWAL Paint	LB	1 gal	M	
10	Ambassador 3220	KWAL Paint	LB	1 gal	~	
11	Ambassador 3250	KWAL Paint	. LB	1 gal	4	
12	Ambassador 3250	KWAL Paint	LB	1 gal	for;	
13			(LB	1 gal		
14			LB	1 gal.		
15			LB			
16	Joint Compound	USC	LB	50 lb	5	
17	Easy sand 20 joint compound	USG	(B	18 lb	0	
18			LB	-		
19			. TLB			
20			LB			
21			EB			
22			EB			
23			LB			
24			LB			
25			LB			

DATE: *D. P.J. L. K*, 2012 Inventory Performed by Address19 Armory Rd. Las Cruces NM 88007 Storage Location POL Room

Posted to NGB FOIA Reading Room May, 2018

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HAZARDOUS MATERRIAL INVENTORY AC-2

PRODUCT NAME	JAME	Manufacture	NSN	IN	QTY ,	MSDS BOOK LOCTATION
Striping Paint	aint	Rust Oleum	LB	1 gal	/	
Promar 400	00	Sherwin Williams	ILB	1 gal	/	
Pro Classic	sic	Sherwin Williams	LB	1 gal	/	
Pro Mar	L	Sherwin Williams	LB	1 gal	/	
A-100		Sherwin Williams	LB	1gal	Μ	
Wall & Ceiling Texture	Texture	Sheet Rock VSO	LB	50 Lb. Bags	N	
			LB			
			LB			
			LB			
÷			LB			
Henry 430 Tile Adhesive	Adhesive	Henry	LB	4 gal Pail	/	
			LB			
•	and the second second		LB			
			LB			
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			LB		0.024	
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DATE: チャンパーン シューン Inventory Performed by Address!9 Armory Rd. Las Croces well 88007 Storage Location POL Room

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Item #	PRODUCT NAME	Manufacture	NSN	IN	ary	MISUS BOOK LOCIATION
	Multi Surface Cleaner	Southwest Distributing	LB	32 0z.	0	
2	Windex	Johnson	LB	32 oz.	m	
6	409	Clorax Co.	LB	32 oz.	/	
4	Clear Glide	Ídeal Industries	LB	1 pt.	<i>u</i>	
- un	DAWN	Proctor & Gamble	LB	18 oz.	/	
9	Disinfectent	ZEP Manufacture	LB	24 oz.	5	
2			LB			
00			LB		-	
6			LB			
10			LB			
11			LB		_	
12			LB			
13			LB		4	
14			LB			
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16			LB		*	
17			LB			
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21			I B		_	
22			LB			÷
23			LB			
24			LB			
25			LB		-	



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OUS MATERRIAL INVENTORY	SIF 1
HAZARDOUS 1	

Break free inc. 3.72 oz Hartline Products LB 25 th Box Hartline Products LB 1gal N KWAL Paints LB 1gal nt VIP Lighthouse products LB 1gal nt VIP Lighthouse products LB 1gal nt VIP Lighthouse products LB 1gal nt Coronado Paints LB 1gal nt GE LB 1gal nt GE LB 1gal nt GE LB 1gal nt GE LB 1gal nt LB LB 1gal nt LB LB 1 nt LB LB LB nt LB LB <th>Break free inc. 3.72 oz Hartline Products LB 25 tb Box KWAL Paints LB 1gal KWAL Paints LB 1gal VIP Lighthouse products LB 1gal ViP Lighthouse products LB 1gal Coronado Paints LB 1gal Coronado Paints LB 1gal Coronado Paints LB 1gal Costom Building Prod. LB 1gal LB LB 1gal Custom Building Prod. LB 1gal LB LB 1gal LB LB 1gal LB LB LB LB LB LB LB</th> <th></th> <th>PRODUCT NAME</th> <th>Manufacture</th> <th>NSN</th> <th>IN</th> <th>QIY 17.A</th> <th>NOT NOOR COCINI</th>	Break free inc. 3.72 oz Hartline Products LB 25 tb Box KWAL Paints LB 1gal KWAL Paints LB 1gal VIP Lighthouse products LB 1gal ViP Lighthouse products LB 1gal Coronado Paints LB 1gal Coronado Paints LB 1gal Coronado Paints LB 1gal Costom Building Prod. LB 1gal LB LB 1gal Custom Building Prod. LB 1gal LB LB 1gal LB LB 1gal LB LB LB LB LB LB LB		PRODUCT NAME	Manufacture	NSN	IN	QIY 17.A	NOT NOOR COCINI
Hartline Products LB 25 Lb Box KWAL Paints LB 1 gal KWAL Paints LB 1 gal VIP Lighthouse products LB 1 gal VIP Lighthouse products LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal Costom Building Prod. LB 1 gal LB LB LB LB LB <td< td=""><td>Hartline Products LB 25 Lb Box KWAL Paints LB 1 gal KWAL Paints LB 1 gal VIP Lighthouse products LB / cooC VIP Lighthouse products LB 1 gal Verticest LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB 1 gal LB LB 1 gal LB LB 1 gal LB LB LB LB LB LB</td></td<> <td></td> <td>Break free</td> <td>Break free inc.</td> <td></td> <td>3.72 oz</td> <td>150</td> <td></td>	Hartline Products LB 25 Lb Box KWAL Paints LB 1 gal KWAL Paints LB 1 gal VIP Lighthouse products LB / cooC VIP Lighthouse products LB 1 gal Verticest LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB 1 gal LB LB 1 gal LB LB 1 gal LB LB LB		Break free	Break free inc.		3.72 oz	150	
LB LB 1 gal KWAL Paints LB 1 gal VIP Lighthouse products LB 1 gal Coronado Paints LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB LB LB LB LB <	LB LB 1 gal KWAL Paints LB 1 gal VIP Lighthouse products LB /exo L VIP Lighthouse products LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB LB LB LB LB LB LB LB LB LB LB LB LB LB LB		Dock Tita	Hartline Products	LB	25 Lb Box	0	
kWAL Paints LB 1 gal VIP Lighthouse products LB /cool/ Coronado Paints LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB LB LB LB LB	kWAL Paints LB 1 gal VIP Lighthouse products LB 1 gal Coronado Paints LB 1 gal Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB LB LB LB LB		LUCK INC		LB			
VIP Lighthouse products LB /cold Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB	VIP Lighthouse products LB /cold Coronado Paints LB 1 gal Hardcast LB 1 gal GE LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB		Embacev WB 3860	KWAL Paints	LB	1 gal	1	
Coronado Paints LB 1'gal Hardcast LB 1 gal GE LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB 1 LB LB LB LB	Coronado Paints LB 1'gal Hardcast LB 1 gal GE LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB LB LB LB <td></td> <td>Tor Polymear Sealent</td> <td>WiP Lighthouse products</td> <td>LB</td> <td>1006</td> <td>2</td> <td></td>		Tor Polymear Sealent	WiP Lighthouse products	LB	1006	2	
Hardcast LB 1 gal GE LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB	Hardcast LB 1 gal GE LB 1 gal GE LB 1 gal Custom Building Prod. LB 1 gal LB LB LB		Anua Plastic	Coronado Paints	LB	1'gal	H	
GE LB Custom Building Prod. LB LB LB <t< td=""><td>GE LB Custom Building Prod. LB LB LB <t< td=""><td></td><td>Versa Grib</td><td>Hardcast</td><td>LB</td><td>1 gal</td><td>N.</td><td></td></t<></td></t<>	GE LB Custom Building Prod. LB LB LB <t< td=""><td></td><td>Versa Grib</td><td>Hardcast</td><td>LB</td><td>1 gal</td><td>N.</td><td></td></t<>		Versa Grib	Hardcast	LB	1 gal	N.	
Custom Building Prod. LB LB LB LB LB LB LB LB LB LB LB LB LB L	Custom Building Prod. LB LB LB LB <t< td=""><td></td><td>Kr Polymear Sealent</td><td>GE</td><td>LB</td><td>1 gal</td><td></td><td></td></t<>		Kr Polymear Sealent	GE	LB	1 gal		
			Concrete Patch	Custom Building Prod.	LB	1 gal	-	
LB LB <td>LB LB LB LB</td> <td></td> <td></td> <td></td> <td>ILB</td> <td></td> <td></td> <td></td>	LB LB				ILB			
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PRO	PRODUCT NAME	Manufacture	NSN	IU	QTY	MSDS BOOK LOCTATION
			LB			
Acryli	Acrylic Enamal 8420	Kwal	LB	1 gallon	-	
Acryli	Acrylic Enamal 8430	Kwal	LB	1 gallon	_	
Acryli	Acrylic Enamal 8441	Kwal	LB	1 gallon	-	
Acryli	Acrylic Enamal 8450	Kwal	LB	1 gallon	2	
Acryli	Acrylic Enamal 3110	Kwal	LB	1 gallon	1	
Acryli	Acrylic Enamal 3230	Kwal	LB.	1 gallon	1	
0	O voc acrylic	Sherwin williams	LB	1 gallon	7	
	Augua Loc	Insl-X	L8	1 gallon	2	
Windo	Window door silicone	GE	LB	9.8oz.	2	
			LB			
6	950 A Caulk	Sherwin Williams	LB	10.1 oz tube	2	
Ou	Ouick Gun Caulk	Comex Group	LB	10.1 oz tube	0	
Advanc	Advance Kitchen & Bath	DAP inc.	LB	9 oz. tube	-	
VID ela	VID elastomeric sealent	performance Materials	L8	10.1 oz tube	Ч	
Mactor	Master Choice Caulk White	Master choice	L8		129	
	Flasto Patch	DAP inc.	LB	10.1 oz tube	N	
EB1	FB136 Fire Block	3m	LB	10.1 oz tube	m	
Alex Plu	Alex Plus white 35 vr caulk	DAP inc.	LB	10.1 oz tube	4	
Alex Plu	Alex Plus Clear 35 yr caulk	DAP inc.	LB	10.1 oz tube	~	
Alex Plu	Alex Plus Grev 35 yr. Caulk	Dap Inc.	II.B	10.1 oz tube	71	
	Floetrol	Akzo Nobel Paints	LB	quarts & Gal.	~	
			LB			
			LB	The second second		
	200		18		-	

DATE:

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HAZARDOUS MATERRIAL INVENTORY Trav # 1.2.3

		INIGHT COLOR		5	CIY	LOCTATION	
1	Acrylic Enamel 3210	KWAL Paint	LB	5-gallon	6	Tray 1-1	
2	Accu pro 5160	KWAL Paint	LB	5-gallon	-	Tray 2-2	
÷	Acrylic Striping Paint 5715	- KWAL Paint	LB	5-gallon	2	Tray2-3	
4	Set Fast Traffic Paint	Sherwin Williams	(LB	5-gallon	Ч	Tray2-4	
S	Pro X PVA Primer	KILZ	(LB	5-gallon	0	Tray 3-1	
9	Hi Build	Hanley	8	5-gallon	-	Tray 3-2	
7			LB			•	
8			B				
9			LB				
10			LB				
11			LB				
12			LB				
13			LB				
14			LB				1
15			LB				
16		-	LB		14		
17			LB				
18			LB				
19			LB				
20		With the second	LB				
			LB				
22			LB				
23			LB				
24			LB				
25			LB			2	

May, 2018

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CLEANING SUPPLY CLOSET INVENTORY

TAB	PRODUCT	QTY	QTR 1	QTR 2	QTR 3	QTR 4
1	Big Deodorant Blocks			1		
2	Vinyl Urinal Deodorant Screen	15		15		
3	Para Deodorant Blocks .	3		3		
4	Brite Toulet Bowl Cleaner	.4		4	1	1.1
5	Bravo Heavy Duty Low Odor Stripper	r		1		
6	GP Forward Floor Cleaner			6		
7	SSS Lemon Oil Furniture Polish	5		B 13		1.2
8	Citrus-Solve Cleaner/Degreaser	-	1			
9	700 Special Oil Mop Cleaner	2		27		
10	Austin A-1 Bleach	3		\$100		-
. 11	Alki-Lion Ram Rod			11		1
12	Big John Toilet Bowl Cleaner		11 - Mar - 3		Complete State	
13	Non-Valient Non-Acid Disinfectant Bathroom				1	
14	Power Green General Purpose Cleaner			11		1
15	Linebacker Stripper	2		22		
16	Simple Green Concentrate			5		
17	Simple Green Hand Cleaner	12	·	17		
18	Regualar Clorox Bleach	11		13		
19	AIAX Cleaner Power Oxygen Bleach	42		K.	1. 1. 1.	e - *
20	Aerosol Ocide Plus	1	-	7	1	-
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Steller

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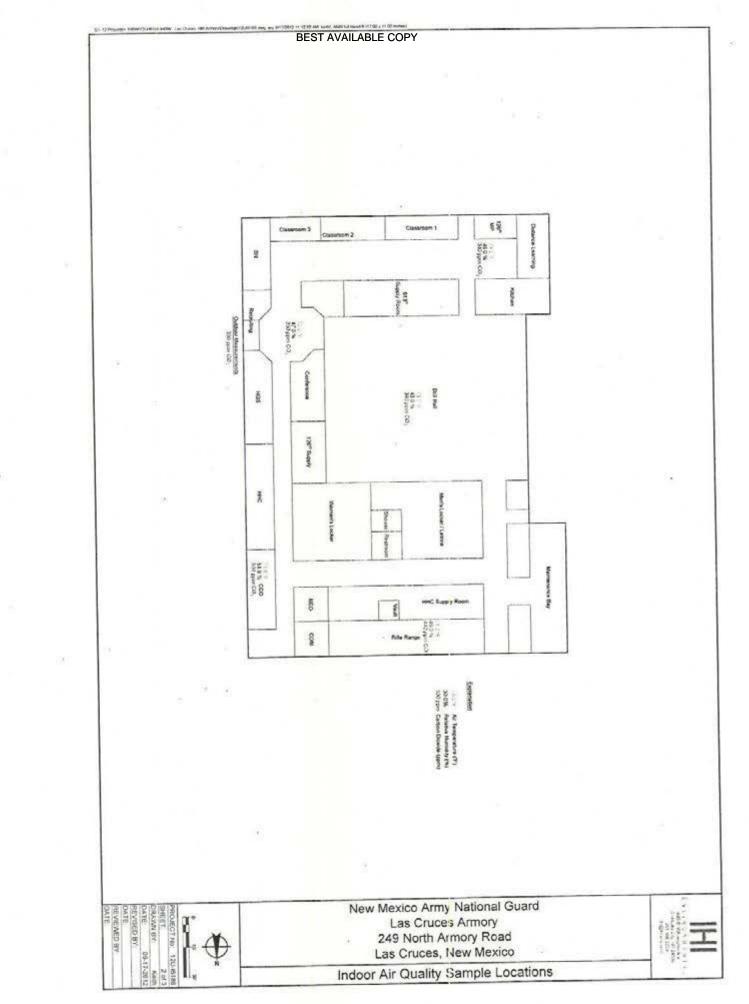
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Big D Deodorant Blocks 1 Vinyl Urinal Deodorant Screen Para Deodorant Blocks 3 Brite Toilet Bowl cleaner (0) Bravo Heavy Duty low odor Stripper 5 6 GP Forward Floor Cleaner 10 SSS Lemon Oil Furniture Polish 7 8 Citrus-Solve Cleaner/Degreaser 700 Special Oil Mop Cleaner 9 10 Austin A-1 Bleach \$ 11 Alka-Lion Ram Rod 3 12 Big John Toilet Bowl Cleaner 13 Non-Valient Non-Acid Disinfectant Bathroom 14 Power Green General Purpose Cleaner 2 Linebacker Stripper 15 16 Simple Green Concentrate 5 17 Simple Green Hand Cleaner Gel 18 RIPACI OCOX Bleac Oxyden Ori 1020030 requence ners

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Appendix E

Floor Plan/IAQ - Temp, RH, & CO2 Monitoring



Posted to NGB FOIA Reading Room May, 2018

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Ventilation Data

The kitchen hood in the Las Cruces Armory was not working on the day of the IH Assistance Visit due to electrical work that was performed the day before in the kitchen. Therefore, a kitchen ventilation survey was not performed on the day of the survey.

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Appendix G

Field Notes

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9/10/12

Army National Guard <u>Armory</u> Survey (To Be Included In Report)

Five lead wipe samples collected from drill floor (take samples from dusty horizontal floor surfaces)	Yes
Are any weapons cleaned in the facility, if yes where are they cleaned?	yes - Drill Hall Floor nguaderly
Additional lead wipe samples taken from 25% of the rest of the building(on floor areas only)	Yes
Is there a converted indoor firing range? If so collect additional wipe samples IAW the SOW.	yes-took 5 in IFR. 1 in entrance 3 in Drill Hall
Is there any peeling paint? Take bulk sample if able.	no
Are there any signs of water damage or mold?	мο.
Any suspected ACM? Where and what condition is it in. Bulk sample if able.	could not locate a asbestos surve
Quality of housekeeping	good.
HVAC maintenance plan in place?	State Maintenance Personnel Jes.
Overall condition of HVAC system	good. 4 combo units 4 Heat vent units
Obtained CO2, Temp, RH monitoring	tes.
HAZMAT inventory on hand (make copies for the report), MSDS available for all materials.	tes - good
HAZMAT storage, Condition of lockers, if outside storage building is used is it ventilated and does it meet OSHA standards.	yes-good- 4 flam cabinets in exterior flam room.

Fire alarm in working conditionnot usually in place in older armories	yes-Simplex
Fire extinguishers in place and properly identified and mounted	yes.
Evidence of monthly fire extinguisher inspections	done by armony personnel -one in fram noon not on monthly -one in Kitchen.
Annual fire extinguisher inspections tags current	Central Fire & Safety
Are eye wash stations available in areas where hazardous materials are used and are they inspected weekly (inspections must be documented)	Yes - not used - no chemicals in the area to warrant it being there no inspections on it - proper drains does not exist.
Egress routes accessible and properly markednoted on <u>Fire Evacuation Plan</u>	yes.
Training programs in place; Hazcom, Respiratory Protection, Confined Spaces, Hearing conservation, PPE (if applicable)	yes
Any Photo labs	N/A
Any hazardous noise sources	YES - garbage disposal
Light levels checked throughout building	N/A
Breaker panels properly labeled with no exposed wiring	yes.
Check building occupancy 1. How many military personnel, how many civilian personnel 2. What types of units occupy facility, i.e. Administrative, Maintenance, etc.?	(44) 22-sherriffs Academy 6-State maintenance.
Any civilian activities in armory (cub scouts, classes, day care, parties etc)	Sherrifis academy, Family Readily as Related of Drill Hall for shows
Obtain two lead air samples	On IHSW Request Only

Evaluate Kitchen Stove Hood Flow if Present IAW NFPA Standard 96. Collect Source Noise Measurements of Kitchen Appliances and Document Using DD 2214	not able to get hood to work - had just done work to Ansul Fire suppression system - which is on same electrical circuit.
Conduct a safety walkthrough of entire facility document any safety deficiencies found.	yes-gas cylinders not properly contained in
Take photos of outside of building, all sample points and any pertinent hazards or concerns.	tes. Ion-Responsive
Name of Armory, POC, phone #, address and organizations in Armory	249 North Armony Rd. Las Cruces, NH 88007
(Add Checklist to Report)	(Add Checklist to Report)

FACILITY INFORMATION

(Information listed in First Section) (1st Few Paragraphs/Pages of Report)

1. Date Prepared: 9/10/2012

2. Names (and Company Name) of Personnel Conducting Industrial Hygiene Site Assistance Visit: Non-Responsive HI Environmental

3. Facility Name and Brief Summary of Primary Activities Conducted at Facility: Las Cruces Armory

4. Facility Address: 249 Armory Road, Las Cruces, NM 88007

5. Primary Unit Assigned to Facility: C CO - HICCO - WP8KT0

 Co-Tenant Units Assigned or Working Within Facility (LIST ALL): 126th MP CODC 3/140th AL

7. Square Ft. Area of Facility: ~44,177 sq ft

8. Work Schedule: M-T/F 0700-1700

9. Number of work bays: 1

10. Equipment Density and Type: None

- a. List Equipment Nomenclature Serviced or Maintained at Facility: None
- b. List Total # for Each Nomenclature Serviced or Maintained at Facility: None

11. Total Number of Personnel: 44

12. No. of Admin. Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee): 16 AGR, 22 Sherriff's Academy

13. No. of Maintenance Personnel (Include Status – AGR, Fed. Tech., IDT, State or Contract Employee): 6 State Personnel

14. Total Number of Personnel Enrolled in the Hearing Conservation Program: 0

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- 15. Total Number of Personnel Enrolled in the Respiratory Protection Program: 0
- 16. Total Number of Personnel Enrolled in the Medical Surveillance Program: 0
- 17. Total Number of Personnel Enrolled in the Vision Program: 0
- 18. Facility Commander Non-Responsive
 - a. Email address, Commercial Telephone Number and Unit Assigned to: N/A
- 19. Safety Officer: Non-Responsive
 - a. Email Address, Commercial Telephone Number and Unit Assigned to: N/A
- 20. Facility Telephone Number: 575 647 2401

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Appendix H

Calibration Certificates

FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 763 of 1628 3M Occupational Health and Environmental Safety Division

1060 CSTpOYALICONET DATE Oconomowoc, WI 53066-4828 www.3m.com/OccSafety 651 735 6501 800 328 1667 Customer Service 800 243 4630 Technical Assistance

Certificate of Calibration

Certificate Number: 265801SD20010465

Model: SD-200 Class 2 Integrating SLM

Date Issued: 12-Sep-2011

S/N: SD20010465

On this day of manufacture and calibration 3M certifies that the above listed product meets or exceeds the performance requirements of the following accoustic standard(s)

ANSI S1.4 1983 (R 2006) - Type 2 / Specification for Sound Level Meters ANSI S1.43 1997 (R 2007) - Type 2 / Integrating-Averaging Sound Level Meter IEC 61672-1 (2002) - Class 2/Electo Accoustics - SLMs - Pt1: Specifications

Test Conditions: Temp: 18-25°C Humidity: 20-80% R.H. Barometer: 950-1050 mBar

Test Procedure: Si

S053-771

Calibrated By:

Reference Standard(s):

Device

B&K Ensemble

Ref Standard Cal Due 10/7/2011

Uncertainty - Estimated at 95% Confidence Level (k=2) +/- 2.2% Acoustic (0.19dB)



In order to maintain best instrument performance over time, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration to drift before the recommended interval has expired. See user manual for more information.

All test equipment used in the test and calibration of this instrument is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced except in its entirety without the written approval of 3M, Inc.

098-621 Rev B

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3M Occupational Health and Environmental Safety Division

1060 CEAD Att A CleAR Strength PY Oconomowoc, WI 53066-4828 www.3m.com/OccSafety 651 735 6501 800 328 1667 Customer Service 800 243 4630 Technical Assistance

Declaration of Conformity

Product/Model: SD-200 / Sound Detector - Class 2 Integrating SLM

Directives Covered:

- > EMC / Council Directive 2004/108/EC on Electromagnetic Compatibility.
- Safety / Council Directive 2006/95/EC on Low Voltage Equipment Safety.
- > RoHS / Council Directive 2002/95/EC Restriction of Hazardous Substances.
- > WEEE / Council Directive 2002/96/EC Waste electrical and electronic equipment.
- > Performance / Council Directive 2004/22/EC Measuring Instruments.

The basis on which conformity is declared:

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use EMC requirements, Group 1, Class B Equipment (emissions)

CFR:47 (2008) Code of Federal Regulations: Part 15 Subpart B - Radio Frequency Devices - Unintentional Radiators.

EN 61326-1 (2005) Electrical equipment for measurement, control and laboratory use EMC requirements, Industrial Location Immunity.

ANSI S1.4 1983 (R 2006) - Type 2 / Specification for Sound Level Meters

- ANSI S1.43 1997 (R 2007) Type 2 / Integrating-Averaging Sound Level Meter
- IEC 61672-1 (2002) Class 2/Electo Accoustics SLMs Pt1: Specifications
- IEC 61010-1 (2010) Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General Requirements

This instrument is considered WEEE Category 6 (Electrical and electronic tools), and therefore falls within the scope of the RoHS Directive. These units are RoHS compliant.

Note: This certification applies to all standard options and accessories supplied with the SD-200.

At the end of it's life cycle, this product and internal power cell must be sent to a WEEE recycling center, and is marked accordingly.

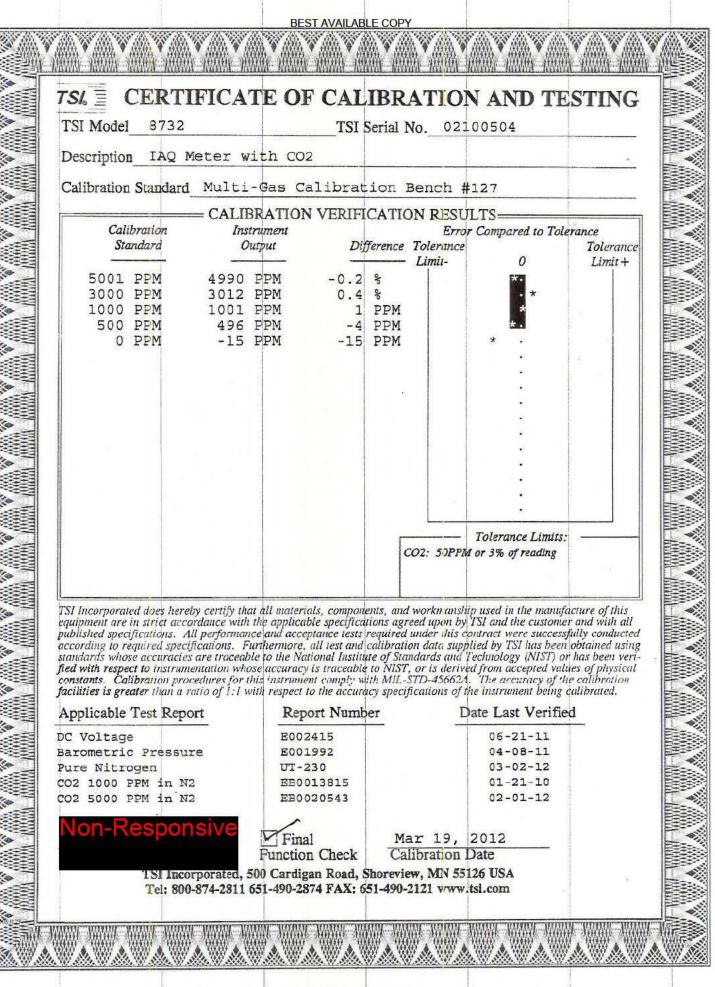
The technical construction file required by this directive is maintained in Oconomowoc, WI USA

Non-Responsive

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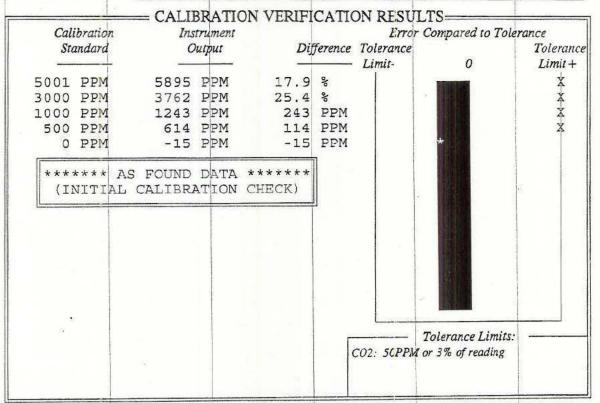
FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 766 of 1628

75% CERTIFICATE OF CALIBRATION AND TESTING

TSI Model 8732 TSI Serial No. 02100504

Description IAQ Meter with CO2

Calibration Standard Multi-Gas Calibration Bench #127



TSI incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. Furthermore, all test and calibration data supplied by TSI has been obtained asing standards whose accuracies are traceable to the National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. Calibration procedures for this instrument comply with MIL-STD-45662A. The accuracy of the calibration facilities is greater than a ratio of 1:1 with respect to the accuracy specifications of the instrument being calibrated.

Report Number	r I	Date Last Verified
E002415		06-21-11
E001992		04-08-11
UT-230		03-02-12
EB0013815		01-21-10
EB0020543		02-01-12
Final	Mar 19,	2012
Function Check	Calibration	and the second se
, 500 Cardigan Road, Sh 1 651-490-2874 FAX: 65	oreview, MN 5 1-490-2121 www	5126 USA #.tsi.com
	E002415 E001992 UT-230 EB0013815 EB0020543 Final Function Check 500 Cardigan Road, SH	E002415 E001992 UT-230 EB0013815 EB0020543

148.117.1

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2 35 (0.18)	34 (0.17)	32-38 (0.16-0.19	9) 8	····996 (5:06)	991 (5.03)	966~1026 (4.91~5.21)
3 65 (0.33)	65 (0.33)	62~68 (0.32~0.3	and the second se	1473 (7.48)	1476 (7.50)	1428~1517 (7.26~7.70)
4 99 (0.50) 5 160 (0.81)	98 (0.50)	96~102 (0,49~0.5 155~165 (0.79~0.8	the state of the state of the same state of the	- 2473 (12.56)	2484 (12.62)	2399~2547 (12.18~12.94)
6	333 (1.69)	324~344 (1.64~1.7	and the second se	4493 (22.82) 5903 (29.99)	5902 (29.98)	4358~4627 (22.14~23.51) 5726~6080 (29.09~30.89)
	The sector sector and the sector sect		a state for the second second	No. 200 States and the second		
STANDARD	VERIFICATION	ALLOWABLE RA	110	YSTEM T-119 STANDARD	MEASURED	Unit: °F (°C ALLOWABLE RANGE
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Temperature DC Voltage Pressure Barometric Pr	E00165 E00171 essure E00199	9 12-13-11 0	2-28-12 06-13-12 04-06-13	Temperature Temperature Pressure Velocity	E004402 E001721 E003327	01-19-12 07-19-12 12-08-11 06-08-12 12-13-11 06-13-12 09-19-07 09-19-12
No	n-Re	sponsi	ve			
					June 5, 2	2012
A			Dec 1D' CERT		DATE	
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	TH		Tel: 1-800-87	74-2811	1-651-49	0-2811: Fax	oad, Shoreview, MN 55 : 1-651-490-3824 http:/	i126 USA //www.tsi.com
ENI	VIRONMEN	T CONDITION					<u>Parish yang seri</u> Kangaran seri	
Тем	PERATURE		67.8 (19.9)	°F (°C)		MODE	L	8345
REL	ATIVEHUM	IDITY	53 - 53	%RH				
BAR	COMETRIC P	INETRIC PRESSURE 28.93 (979.7) InHg (hPa)				98060408		
95 M.	AS LEFT	ND to the second	ALIBRATI	0 N	⊠ou	TÖLERANCI IT OF TÖLEF	おいれいためのとないないというという。	L.T.S
VEL	LOCITY VE	RIFICATION	an offende	and the second		SYSTEM V	-106	Unit: ft/min
	STANDARD	MEASURED	ALLOWABLE RANG	GE #	C 😔 STV	NDARD	MEASURED	ALLOWABLE RANGE
	0(0:00)	0 (0.00)	-3~3 (-0.02~0.02		64.	5 (3.28)	626 (<mark>3</mark> .18)	626~664 (3. 8~3.37)
	35 (0.18)	36 (0.18)	1 32-38 (0.16-0.19		for a key	5 (5:062)	* 961.5 (4.884)	966.6~1026.4 (4.91~5.2
111	65 (0.33)*	66 (0.33)	62-68 (0.31-0.34)	1. N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	201 1120 AV- 13. 3.	3 (7.484)	*1386.8 (7.045)	1429.1~1517.5 (7.26~7.7
4]①	100 (0.51)	101 (0.51) 160 (0.81)	97~103 (0:49~0.52	IN ADDA	The lot of the lot of the	5 (12.718)	* 2344.6 (11.911)	2428.5~2578.7 (12.337-1)
227 4 184	160 (0.81)					(22.78)	4451 (22,61)	4350-4619 (22 10-23 4

-MANA	6 328 (1.67) 326 (1.65) 318-338 (1.62-1.72) 12 5908 (30.01) 5884 (29.89) 5731-6085 (29.11-30.91)
1999	TEMPERATURE VERIFICATION Unit: °F (°C)
	# STANDARD MEASURED ALLOWABLE RANCE # STANDARD MEASURED ALLOWABLE RANGE
12 A 10	1 32.0 (0.0) 32.7 (0.39) 31.5-32.5 (-0.28-0.28) 2 140.0 (60.0) 140.0 (60.0) 139.5-140.5 (59.7-60.3)

*Indicates Out-of-Tolerance Condition

TSI does hereby certify that the above described instrument conforms to the original manufacture's specification (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the United States National Institute of Standards and Technology (NIST) or has been verified with respect to instrumentation whose accuracy is traceable to NIST, or is derived from accepted values of physical constants. TSI's calibration system is registered to ISO-9001: 2008 and meets the requirements of ISO 100/2:2003.

DOC: ID CERT_DEFAULT

Measurement Varia	ble System ID	Last Cal.	al. Due
DC Voltage	E004477	12-15-11 1	2-15-12
Pressure	E001558	12-12-11 0	6-12-12
Velocity	E003327	09-19-07 0	9-19-12
Temperature	E001800	01-19-12 0	7-19-12

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Measurement Variable	System ID	Last Cal	Cal. Due
Température	E001644	01-20-12	07-20-12
Pressure	E001560	12-12-11	06-12-12
Barometric Pressure	E001992	04-06-12	04-06-13
Temperatüre	E001799	01-19-12	07-19-12
	The state of the second	· Contract Sec. Sec.	and a set of the

June 5, 2012

DATE

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P/N 2300 10

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USA

TSI - Customer Service report

Thank you for the opportunity to service your instrument.

RMA Number: 800245509

Ship-to party 17032 IHI ENVIRONMENTAL 640 E WILMINGTON AVE

SALT LAKE CITY UT

Sold-to party 17032

IHI ENVIRONMENTAL 640 E WILMINGTON AVE SALT LAKE CITY UT USA

Service Information: Purchase Order 12U-I6001TSIJCH Purchase Order Date 06/05/2012

Description Calibration of VelociCalc 8345

Equipment 98060408 Serial Number 98060408 Material 8345

Service Description:

Return Reason: ANNUAL CALIBRATION

Findings: Unit sent in for clean and calibration. The unit failed as found.

Action: The unit was cleaned, calibrated, and a complete operational checkout

was performed.

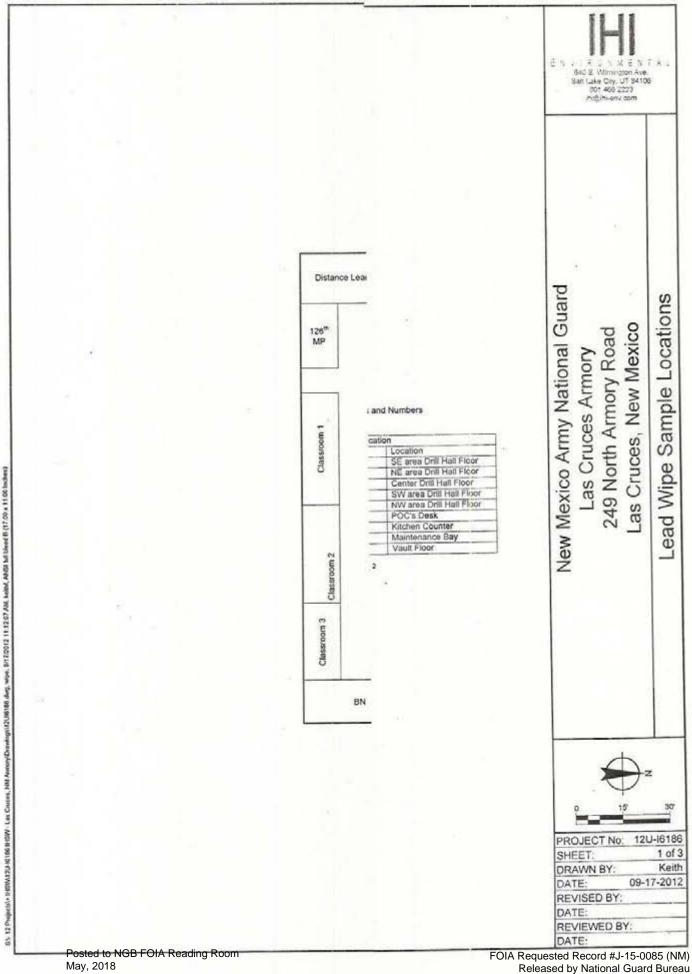
Appendix I

Lead Wipe and Lead Paint Chip Table and Drawing

Sample Number	Collection Date	Location	Result µg/ft ²
6186-01	10/10/2012	SE Corner of Drill Floor	<23
6186-02	10/10/2012	NE Corner of Drill Floor	<23
6186-03	10/10/2012	Center of Drill Floor	<23
6186-04	10/10/2012	SW Corner of Drill Floor	<23
6186-05	10/10/2012	NW Corner of Drill Floor	<23
6186-06	10/10/2012	POC's Desk	<23
6186-07	10/10/2012	Kitchen Counter	<23
6186-08	10/10/2012	Maintenance Bay Floor	<23
6186-09	10/10/2012	Weapons Vault Floor	50

Lead Wipe Sample Results

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Appendix J

Laboratory Reports

Posted to NGB FOIA Reading Room May, 2018



Report Date: September 19, 2012

n-Responsiv

IHI Environmental 640 East Wilmington Avenue Salt Lake City, UT 84106

Phone: (801) 466-2223 Fax: (801) 466-9616

Workorder: 34-1225682 Client Project ID: 12U-I6186/Armory-Las Cruces, N Purchase Order: 1211-16186

Project Manager:

Sample ID: 6186-01	Media: Lead Dust Wipe			Collected: 09/10/2012		
Lab ID: 1225682001	Sampling Locat	Received: 09/12/2012				
Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm ²			IIOSH 7300 Mod. Sampli		Prepared: 09/14/2012 Analyzed: 09/18/2012
Analyte	ug/sample	ug/ft ²	RL (ug sample)			
Lead	<2.5	<23	2.5			

Sample ID: 6186-02	Media: Lead Dust Wipe Sampling Location: Armory-Las Cruces, N Sampling Parameter: Area 100 cm ²			Collected: 09/10/2012
Lab ID: 1225682002				Received: 09/12/2012
Method: NIOSH 7300 Mod.				Prepared: 09/14/2012 Analyzed: 09/18/2012
Analyte	ug/sample	ug/ft ²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

Sample ID: 6186-03	Me	Collected: 09/10/2012			
Lab ID: 1225682003			Received: 09/12/2012		
Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm ²			Prepared: 09/14/2012 Analyzed: 09/18/2012	
Analyte	ug/sample	ug/ft²	RL (ug/sample)		
Lead	<2.5	<23	2.5	· · · · · · · · · · · · · · · · · · ·	

Sample ID: 6186-04	Media: Lead Dust Wipe Sampling Location: Armory-Las Cruces, N Sampling Parameter: Area 100 cm²			Collected: 09/10/2012 Received: 09/12/2012
Lab ID: 1225682004 Method: NIOSH 7300 Mod.				Prepared: 09/14/2012 Analyzed: 09/18/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, USA 84123 | PHONE +1 801 266 7700 | EAX +1 801 268 9992 A Campbell Brothers Limited Company Part of the ALS Laboratory Group ALS GROUP USA, CORP.

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IHREP-V10.9



Workorder: 34-1225682 Client Project ID: 12U-I6186/Armory-Las Cruces, N

Purchase Order: 12U-I6186

Project Manager: Non-Respons

Analytical Results		5011-0		non a second
Sample ID: 6186-05	Me	Collected: 09/10/2012		
Lab ID: 1225682005	Sampling Locat	Received: 09/12/2012		
Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm ²		Prepared: 09/14/2012 Analyzed: 09/18/2012	
Analyte	ug/sample	ug/ft ²	RL (uç/sample)	a the second
Lead	<2.5	<23	2.5	

Sample ID: 6186-06	Me	Collected: 09/10/2012				
Lab ID: 1225682006	Sampling Locat	Received: 09/12/2012				
Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm ²			thod: NIOSH 7300 Mod. Samplin		Prepared: 09/14/2012 Analyzed: 09/18/2012
Analyte	ug/sample					
Lead	<2.5	<23	2.5	4		

Sample ID: 6186-07 Media: Lead Dust Wipe					Collected: 09/10/2012
Lab ID: 1225682007	Sampling Location: Armory-Las Cruces, N Sampling Parameter: Area 100 cm ²				Received: 09/12/2012
Method: NIOSH 7300 Mod.					Prepared: 09/14/2012 Analyzed: 09/18/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)		
Lead	<2.5	<23	2.5	1 13	

Sample ID: 6186-08	Media: Lead Dust Wipe Sampling Location: Armory-Las Cruces, N Sampling Parameter: Area 100 cm ²			Collected: 09/10/2012
Lab ID: 1225682008				Received: 09/12/2012
Method: NIOSH 7300 Mod.				Prepared: 09/14/2012 Analyzed: 09/18/2012
Analyte	ug/sample ug/ft ² RL (ug/sample)			
Lead	<2.5	<23	2.5	

Sample ID: 6186-09	Media: Lead Dust Wipe Sampling Location: Armory-Las Cruces, N			Collected:	09/10/2012
Lab ID: 1225682009				Received:	09/12/2012
Nethod: NIOSH 7300 Mod.	Samplin	Sampling Parameter: Area 100 cm ²			09/14/2012 09/18/2012
Analyte	ug/sample	ug/ft²	RL (ug/sample)		In Michael
Lead	5.3	50	2.5		

Page 2 of 4

IHREP-V10.9



Workorder: 34-1225682 Client Project ID: 12U-I6186/Armory-Las Cruces,

Purchase Order: 12U-I6186 Project Manager Non-Responsiv

N

Analytical Results		and the second second		
Sample ID: 6186-10	Me	Collected: 09/10/2012		
Lab ID: 1225682010	Sampling Locat	Received: 09/12/2012		
Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm ²		Prepared: 09/14/2012 Analyzed: 09/18/2012	
Analyte	ug/sample	ug/ft²	RL (ug/sample)	
Lead	<2.5	<23	2.5	

Comments

Quality Control: NIOSH 7300 Mod. - (HBN: 93952)

Baby wipes were used as the media for the QC samples in HBN 93663 as they appeared to most closely resemble the samples of unknown wipe type for the field samples in HBN 93663.

Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Non-Responsive	Non-Responsive

Laboratory Contact Information

ALS Environmental 960 W Levoy Drive Salt Lake City, Utah 84123 Phone: (801) 266-7700 Email: alslt.lab@ALSGlobal.ccm Web: www.alsslc.com



Workorder: 34-1225682 Client Project ID: 12U-I6186/Armory-Las Cruces,

Purchase Order: 12U-I6186 Project Manage

General Lab Comments

The results provided in this report relate only to the items tested. Samples were received in acceptable condition unless otherwise noted. Samples have not been blank corrected unless otherwise noted. This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP) Utah (NELAC) Nevada Oklahoma Iowa Florida (TNI) Texas (TNI)	ADE-1420 DATA1 UT00009 UT00009 IA# 376 E871067 T104704456-11-1	http://www.aclasscorp.com http://health.utah.gov/lab/labimp/ http://ndep.rv.gov/bsdw/labservice.htm http://www.deq.state.ok.us/CSDnew/ http://www.iowadnr.gov/lnsideDNR/RegulatoryWater.aspx http://www.dep.state.fl.us/labs/bars/sas/qa/ http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing: CPSC Soil, Dust, Paint ,Air	ACLASS (ISO 17025, CPSC) AIHA (ISO 17025, AIHA ELLAP and NLLAP)	ADE-1420 101574	http://www.aclasscorp.com http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

** No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Appendix K

IHSW Violation Inventory Log

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Sout	
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al Hyg	
Industri	

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS Las Cruces Armory, NM

CONTROL	HAZARD DESCRIPTION	SITE	RAC	CORRECTIVE ACTIONS	SUSPENSE	ACTION	Estimated	DATE	REFERENCES
CLOSED			1	first a minimum of			Inhann		
NMLCA-101012- 4.8	The kitchen hood was not able to be tested for duct velocity due to an electrical shut down in the kitchen.	Las Cruces Armony	4	Measure the duct velocity of the Mitchen hood when the power is restored to ensure the velocity requirement for 500 fpm equirement fre Protection Association Standard 96, Section 8.2.1.1.					2011 National Fire Protection Association Standard 96, Section 8.2.1.1.
NMLCA-101012- 4.4	An asbestos survey could not be located during this IH Assistance Visit	Las Cruces Armory	0	Either locate the asbestos survey for this building or contract with a licensed firm to perform an asbestos survey and assessment.			a		1910,1001()(3)()
NMLCA-101012- 4.4	NMLCA-101012- Personnel have not been 4.4 provided with asbestos awareness training.	Las Cruces Armory	4	Based on the findings of this survey, provide awareness training to assigned personnel for the specific types of asbestos in this Armory.					29 CFR 1910 1001 or 1101 or AR 40-5
NMLCA-101012- 4.10	NMLCA-101012- All extinguishers except two in 4,10 the kitchen and office areas were current on their annual and monthly inspections.	Las Cruces Armory	4	Ensure all fire extinguishers are provided a monitrily inspection and document these inspections on the attached inspection cards.					29 CFR 1910.157 (c)(1)
NMLCA-101012- 4.10	The GFCI outiet located in the men's restroom did not trip at 7 mA.	Las Cruces Armory	4	Repeil or replace the GFCI outlet in the men's bathroom.					NFPA 70, Article 210-8
NMLCA-101012- 4.10	An emergency eyewash'shower in the maintenance bay has not been inspected or tested.	Las Cruces Armony	4	Ensure the emergency eyewash/showers undergo a weekly operational test and document the results of these lests.					ANSI Z358.1-2009
NMLCA-101012- 4.10	Compressed gas cylinders are not secured from tipping within the storage cage.	Las Cruces Armory	9	Firmly secure compressed gas cylinders against accidental dislodgement					(ii) (253 (b) (2)

eference DA FORM 4754 ER: 15 OCT 2009

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Appendix L

Recommendations

Summary of Recommendations for NMARNG Armory, Las Cruces, New Mexico

4.4 Asbestos Management

1. Contract with a licensed firm to perform an asbestos survey and assessment of this armory.

Once asbestos-containing materials have been identified and assessed, provide awareness training to assigned personnel for the specific material types and locations of asbestos in this armory.

4.8 Kitchen Ventilation Survey

1. Measure the duct velocity of the kitchen hood when the power is restored to ensure the velocity meets the 500-fpm requirement outlined in the 2011 National Fire Protection Association Standard 96, Section 8.2.1.1.

4.10 General Safety Walk-Through

1. Repair or replace the GFCI outlet in the men's restroom.

 Ensure the emergency eyewash/showers undergo a weekly operational test and document the results of these tests.

Ensure all fire extinguishers are provided a monthly inspection and document these inspections on the attached inspection cards.

Firmly secure compressed gas cylinders against accidental dislodgement.

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FOIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 782 of 1628 Appendix M

DD Form 2214

10

	8 y	(E SURVE					87
1. DATE (YYYYMMDD)					SURVEY (Ente	r code)	*****		ALTERNA CONTRACTOR
the second se	20121010			1.1	INITIAL SURVEY	2 - RE-5	SURVEY	3 - OTHER	
3. SOUND LEVEL METE	R.	4. MICRO	PHONE			5. CAL	BRATOR		
a. MANUFACTURER	and the second	a. MANUFA	ACTURER	12		a. MAN	UFACTURER	1	1 ¹⁰ 1
3M ·	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	3M				3M			0
, Jana						- ware	à		
b. MODEL	c. SERIAL NO.	b. MODEL	N. W. State	c. SERIA	NO.	b. MODI	EL	C.	SERIAL NO.
SD-100	SD20010465	SD-	100	SD	20010465	3	QC-10	12	QIA120222
d. LAST ELECTROACOUSTI		d. LAST EL	ECTROACO	USTIC CALL	B DATE	d. LAST	ELECTROAC	OUSTIC CAL	IB DATE
	20111012	(YYYYM	MDD)	20111	.012	(YYY	YMMDD)	2011	1012
6. WIND SCREEN (X one,				7. MEA	SUREMENTS C	BTAINED	(X one)		
X USED	NOT USED				DOORS		UTDOORS		
8. DESCRIPTION OF AR		NOISE SURV	FY COND			A COLUMN A COLUMN	A COLORED TO A COL	RCE OF NO	SE
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<i>a</i>		1				10 SEC	ONDARY S	OURCE OF	NOISE
	e.,			3	28	10.000	onoran o		18 G ¹⁰
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INSTRUCTIONS

(Refer to DoD Component Instructions for Additional Guidance)

PURPOSE: This form is intended to record noise survey results for the identification of potentially noise-hazardous environments.

GENERAL: Print all information in ink. Only medical, industrial hygiene, safety, or engineering personnel who meet training requirements specified by the DOD components will make sound level measurements.

1. Date - Enter date noise survey conducted (e.g., if Jan. 14, 1999, enter 19990114).

2. Type, Survey - Enter appropriate numeric code in box (e.g., enter "1" if area or operation not surveyed before or no available records of previous survey; enter "2" if resurvey conducted at regular intervals (such as once each 12 months); or enter "3" if noise being reevaluated to confirm validity of previously obtained measurements or for purposes other than indicated).

3. Sound Level Meter:

a. Mfgr - Enter name of company that produced sound level meter.

b. Model - Enter manufacturer's designation.

Serial No. - Enter manufacturer's serial number. c.

d. Last Electroacoustic Callb Date - Enter year, month, day (see Item 1) of last comprehensive calibration required by DOD component. Not to include calibration checks made with acoustical calibrator.

4. Microphone (Fill in this section if microphone is detachable from sound level meter)

a. Manufacturer - Enter name of company that produced microphone.

b. Model - Enter manufacturer's designation.

c. Serial No. - Enter manufacturer's serial number.

d. Last Electroacoustic Callb Date - Enter year, month, and day (see item 1) of last comprehensive calibration as required by DOD component.

5. Calibrator:

a. Manufacturer - Enter name of company that produced calibrator.

b. Model - Enter manufacturer's designation.

c. Serial Number. Enter manufacturer's serial number.

d. Last Electroacoustic Calib Date. Enter year, month, and

day (see Item 1) of last comprehensive calibration as required by DoD component.

Wind Screen - Check appropriate box indicating if manufacturer's device to reduce wind noise is mounted over. microphone assembly.

7. Measurements Obtained - Check appropriate box indicating if measurements obtained indoors or outdoors.

8. Description of Areas/Duties Where Noise Survey Conducted -Include building number(s), name of activity and/or operation, identify specific microphone locations, performance conditions and descriptions of machinery (e.g., rpm, load, etc). Where applicable, include noise-hazard contours of area. On additional sheet make simple line drawing of area and identify noise sources and locations of measurement.

9. Primary Source of Noise - If possible, identify the location(s) of the highest dBA value.

10. Secondary Source of Noise - If possible, identify all other noise sources when the primary noise source is off (e.g. background noise sources and other noise sources that may or may not be noise hazardous).

11. Sound Level Data

a. Location - Position where measurement is obtained should correspond with those identified, or illustrated on form.

b. Meter Action - See Notes in Sound Level Data Sec. levels measured with weighting switch of meter in "C" position.

c. dBC - If required by DOD component, enter sound levels measured with weighting switch of meter in "C" position.

'd. dBA - Enter sound levels measured with weighting switch of meter in "A" position. See NOTES in Sound Level Data Section.

e. Risk Assessment Code - Enter expression of risk that combines elements of hazard severity and mishap probability. Hazard severity categories shall be assigned by roman numeral as follows:

(1) Category - Catastrophic: May cause death or loss of a facility (Code I).

(2) Category I - Critical: May cause severe injury, e.g., severe occupational illness, or major property damage (Code II).

(3) Category III - Marginal: May cause minor injury, e.g., minor occupational illness, or minor property damage (Code III).

(4) Category IV - Negligible: Probably wc 1d not affect personnel safety or health, but is nevertheless in ciolation of specific criteria (Code IV). Mishap probability shall be assigned capital letter according to following criteria:

(a) Subcategory A: Likely to occur immediately or within a short period of time (Code A).

(b) Subcategory B: Probably will occur in time (Code B). (c) Subcategory C: May occur in time (Code C).

(d) Subcategory D: Unlikely to occur (Code D). Enter codes as IIB, IIIC, etc. Refer to DOD Instruction 6055.1/DOD component instructions for specific definitions and guidance.

 Protection Required (re: dBA Level)

 None (less than 85: If dBA levels less than 85, check

 this column. No hearing protectors required. b. Plug or Muff (85 - 108): If dBA levels 85 - 108

inclusive, check this column. Earplugs, ear muffs, ear-canal caps, or noise-attenuating helmet required.

c. Plug and Muff (108 - 118): If dBA levels over 108 to 118 inclusive, check this column. Earplugs worn in combination with ear muffs or noise-attenuating helmet required.

d. Plug, Muff & Time: If dBA levels over 118, check this column. Earplugs worn in combination with ear muffs or noise-attenuating halmet and time limit (to be determined by DOD component) required.

13. Remarks - Enter type of hearing protection in use, whether area and equipment posted with appropriate caution signs, etc.

14. More Detailed Noise Evaluation Required - Check "yes" box if more detailed noise evaluation is required; check "no" box if not. Specify the type of evaluation needed (e.g., octave band analysis, etc.).

15. Name(s) of Persons Identified for Audiometric Monitoring -List names of individuals routinely exposed to noise in preceding locations.

16. Supervisor of Noise - Hazardous Area or Operation - Enter name (surname, given name, & middle initial) of the first-echelon (immediate) supervisor of the location (and personnel) surveyed.

17. Survey Performed by - Enter name (surname, given name & middle initial) of individual performing survey & signature.

18. Hearing Conservation Monitor - Enter name of Individual reviewing survey results & signature. Usually local surgeon or designated representative.

DD FORM 2214 (BACK), JAN 2000

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140ct 14

ARMY NATIONAL GUARD INDUSTRIAL HYGIENE - SOUTHWEST

Guam + Hawaii + California + Oregon + Washington + Nevada + Arizons + Idaho + Utah + Wyoming + Montana + New Merico + Nebraska

Industrial Hygiene Site **Assistance Visit**

Las Cruces Armory

249 N. Armory Road Las Cruces, NM 88007

10510 Superfortress Avenue, Suite C, Mather, CA 95655

(915) 854-1494

Posted to NGB FOIA Reading Room May, 2018

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DEPARTMENT OF THE ARMY AND AIRFORCE NATIONAL GUARD BUREAU INDUSTRIAL HYGIENE SOUTHWEST 10510 Superfortress Ave, Ste. C Mather, CA 95655

ARNG-CSG-P

8 OCT 2015

MEMORANDUM THRU New Mexico Army National Guard, ATTN Non-Responsive Archibeque, SOHM, 600 Wyoming Blvd, NE, Albuquerque, NM 87123

FOR Commander, 613th FSC, Las Cruces Armory, 249 N. Armory Road, Las Cruces, NM 88007

SUBJECT: Executive Summary for Site Assistant Visit (IHSAV) for Las Cruces Armory, 249 N. Armory Road, Las Cruces, NM on 14 OCT 2014.

1. References.

a. ARNG-CSG All States Memorandum, SUBJECT: Possible Lead Dust Hazard in Army National Guard (ARNG) Readiness Centers, dated 23 September 2015.

b. Conducting Industrial Hygienist Report, attached.

2. General.

a. At the request of the NGB Industrial Hygiene, Southwest (IHSW) Region, an Industrial Hygiene Site Assistance Visit (IHSAV) was conducted at the Las Cruces Armory, 249 N. Armory Road, Las Cruces, NM 87123, conducted on 14 OCT 2014.

b. The findings and recommendations in this Executive Summary are controlling and supersede all recommendations within the attached Industrial Hygiene report. However, IHSW concurs with the observations and findings within the attached report.

c. Risk Assessment Codes (RAC) provided in this report have been derived from two sources: Deriving Risk Assessment Codes (RAC's) for Health Hazards (Ref: DOD Instruction 6055.1) and AR 385-10, The Army Safety Program.

d. Use of trademark names in the attached report, or this Executive Summary, does not imply Army National Guard endorsement of any product.

3. Findings. Attached industrial hygiene report.

4. General Observations.

a. Personnel interviews indicate there is a space identified as an IFR within the facility. As noted by the conducting industrial hygienist, the ventilation systems, firing lines, lighting and

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ARNG-CSG-P

SUBJECT: Executive Summary for Site Assistant Visit (IHSAV) for Las Cruces Armory, 249 N. Armory Road, Las Cruces, NM on 14 OCT 2014.

bullet stop have either been removed or were never installed. Given the definitions for IFR spaces provided within the ARNG-CSG All States Memorandum, recommend the classification for this IFR space be carried as a Closed IFR. Note, the NM ARNG command closed this and several other IFR spaces within the state until assessments to identify potential elevated lead levels and to employ control measures to ensure occupant health and property integrity/ serviceability as necessary.

b. The observations and data collected during this evaluation indicate the elevated lead particulate levels are attributed from multiple factors arising from maintenance and/or weapons cleaning activities.

c. The HHC and the 126th MP were identified as co-tenant occupancies during this IHSAV.

5. Commendable. The facility was generally clean and orderly throughout.

6. Observations / Recommendations.

NOTE: This section provides conclusions and recommendations for the findings and observations made within the attached contractors report. The paragraphs are numbered to correspond to the sections where they were first noted. (i.e., paragraph 2.1a represents the 2.1a located within the contractors report.

a. Wipe sampling collected from within the space identified as an IFR returned with elevated (> 40 ug/ft2) lead levels. Although the lead levels reported for the other areas of the facility are Below Detection limits (BDL), the levels observed do raise concerns regarding the origin and activities generating the lead. It's presumed the lead is introduced to the facility by weapons cleaning and/or maintenance related activities. (RAC 3)

(1) Medical Surveillance.

(a) It is important for the State Occupational Health, or Medical Service Corp, determine the medical surveillance requirements based on occupancy type and occupancy responsibilities, i.e. administrative personnel, state maintenance workers, contract personnel, civilian population, and personnel who maintain or support IFR operations.

(2) Occupant Notifications. Recommend the State ARNG make appropriate notifications to all occupants outlining the potential hazards, measures persons must take to ensure their health, and to outline the State ARNG's plan to remediate (abate), if necessary, the elevated lead levels within the facility as required by Federal, State, and local laws, regulations, and requirements. At the minimum, the following occupancy groups should be included within the notifications: AGR, IDT personnel, state employees, contract employees, youth program personnel, and all civilians. Note, the attached report may provide co-tenant organizations for inclusion of notifications. Documentation of notifications should be maintained by the facility command for future reference. (reference 29 CFR 1910.1025 as a resource guide)

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ARNG-CSG-P

SUBJECT: Executive Summary for Site Assistant Visit (IHSAV) for Las Cruces Armory, 249 N. Armory Road, Las Cruces, NM on 14 OCT 2014.

b. Although the area wipe samples collected returned results below the 40 ug/ft2 threshold, prevention efforts should continue to ensure the workplace is as free as practical from lead. (RAC NOT ASSIGNED)

(1) Recommend continued cleaning within the administrative offices, kitchen, and communal areas to maintain lead particulate concentrations below the ARNG standard of 40ug/ft2. Utilize the enclosed Clean-up SOP as a guide to assist with the prevention efforts. Ensure personnel clean-up area(s) and tables after weapons cleaning activities. Tables used for weapons cleaning should be marked, "For Weapons Cleaning Only," when utilized as such. (DODI 6055.01 Appendix to Enclosure 4, date 14 OCT 2014)

c. Although the Armory was believed to be built approximately 1990, during this IHSAV an Asbestos Containing Material (ACM) Management Plan could not be located. (para 3.2) (RAC 4)

(1) Conduct a facility survey to identify Asbestos Containing Material (ACM) within the facility and develop ACM Management Plan. Conduct awareness training to all personnel who occupy, or frequent the facility as it relates to the findings and the ACM Management Plan. The survey may have been completed, however, at the time of this assistance visit, awareness training, ACM identification, or an ACM Management Plan was not available.

d. The facility has an Emergency Eyewash/Deluge Shower System. Documentation could not be located to determine if inspected/checked weekly. (reference paragraph 3.4) (RAC 4)

 Inspect the system weekly and ensure checks/inspection records are maintained at the location of the system.

e. The Hazard Communication Program, or Material Safety Data Sheet (MSDS), was very well organized. However, MSDS's are still used at the facility listing the harmful chemicals/ products within the facility. The new format, Safety Data Sheets (SDS), should be utilized to comply with the current Hazard Communication Program requirements. (para. 3.5 and 29 Code of Federal Regulations (CFR) 1910.1200) (RAC 4)

 Update current chemical inventory list and acquire all current SDS's for the hazardous materials used/maintained in this facility.

7. Violation Correction Log.

 a. IHSW has provided a Violation Correction Log derived from the observations from this visit. IHSW recommends the following:

(1) Commander(s) assign an Action OIC/NCOIC, Suspense Date for completion, and Estimated Cost(s) to ensure item completion and corrective status is briefed during quarterly (or monthly) Safety Meetings/Councils until resolved.

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ARNG-CSG-P

SUBJECT: Executive Summary for Site Assistant Visit (IHSAV) for Las Cruces Armory, 249 N. Armory Road, Las Cruces, NM on 14 OCT 2014.

personnel and forward to the New Mexico Army National Guard Industrial Hygiene, Occupational Health and Safety Office for final review and approval (signature).

NOTE: The Hazard Assessments can be used for monthly meetings to brief/train, and document large group training events and activities.

9. IHSW recommends the Senior Unit Commander of this Facility and any Co-Tenant Organizations or Units, review and provide assistance with implementation of these recommendations. This will educate the chain of command and allow the unit or co-tenant organizations to take any necessary precautions or actions required by them and their personnel.

10. To assist you with execution of your responsibilities in correcting the observations noted, we encourage you to consult with the State Safety Manager, Occupational Health Manager and Industrial Hygiene professions located and/or authorized within the State Safety and Occupational Health Office.

11. For additional information please contact the NGB-IHSW office at (916) 854-1491 or via email at Non-Responsive



NGB, IHSW, CIV Regional Industrial Hygiene Manager

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LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS

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REFERENCES	Occupational Safety and Health Administration (OSHA) standard for lead. 1910.1025 (h)(1)	DODI 6055.01 Appendix to Enclosure 4 date 14 OCT 2014
DATE CORRECTED	Occupa Safety a Adminis (OSHA) for lead 1910.10	Appe Findio 14 Oc
Estimated Cost(s) COI	+	
ACTION OIC/NCOIC	1	-
SUSPENSE DATE		
CORRECTIVE ACTIONS (Abatement Plan)	Occupational Safety and Health Administration (OSHA) standard for lead, 1910.1025 (h)(1) require that all surfaces shall be maintained as free as practicable of accumulations of lead. Any area that exceeds 40 ug/ ft2 should be thoroughly decontaminated. Utilize Clean- Up SOP provided in the report for future cleaning episodes.	Recommend continued cleaning within the administrative offices, kitchen, and communal areas to maintain lead particulate concentrations below the ARNG standard of 40ug/ft2. Utilize the enclosed Clean-up SOP as a guide to assist with the prevention efforts. Ensure personnel clean-up area(s) and tables after weapons cleaning should be marked. "For Weapons Cleaning Only." when utilized as such.
RAC	ø	RAC NOT ASSIGNED
SITE	ER	Amoty
HAZARD DESCRIPTION	Wipe sampling collected from within the space identified as an IFR returned with elevated (> 40 ug/f2) lead levels.	Wipe samples collected in other areas of the facility returned results below the 40 ug/ff* threshold.
	14-3.1 14-3.1	FOIA Requested Record #J-15-008

Reference DA FORM 4754 VER: 15 OCT 2009

Posted to NGB FOIA Re May, 2018

DIA Requested Record #J-15-0085 (NM) Released by National Guard Bureau Page 791 of 1628 Industrial Hygiene Southwest

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS LAS CRUCES ARMORY.NEW MEXICO 88007 Violation Inventory Log

50	BEST AVAILABLE COPY	60	
REFERENCES	29 CFR 1910, 1001	ANSI Z358.1-2009	(29 CFR 1910,1200)
DATE CORRECTED			
Estimated Cost(s)			
ACTION OIC/NCOIC			
SUSPENSE DATE			
CORRECTIVE ACTIONS (Abatement Plan)	Conduct a facility survey to identify Asbestos Containing Material (ACM) within the facility and develop ACM Management Plan. Conduct awareness training to all personnel who occupy, or frequent the facility as it relates to the findings and the ACM Management Plan. The survey may have been completed, however, at the time of this assistance visit, awareness training, ACM Management Plan was not available.	Document on inspection tag and check eye wash on a weekly basis	Update current chemical Inventory list and acquire all current SDS's for the hazardous materials used/maintained in this facility.
RAC	4	4	4
SITE	Armory	Armory	Armary
HAZARD DESCRIPTION	During this IHSAV an Asbestos Containing Material (ACM) Management Plan could not be located.	Documentation could not be located to determine if the Emergency Eyewash/Detuge Shower system is being inspected/checked weekly.	MSDS's are still used at the facility listing the harmful chemicals/products within the facility. The new format, Safety Sata Sheets (SDS), should be utilized to comply with the current Hazard Communication Program requirements.
	MLCA-10142014	10142014-3.4	9:5-510145014-3.5 10145014-3.5 sted Record #J-15-0085

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ARMORY

CLEANUP & FOLLOW-UP HOUSEKEEPING RECOMMENDATIONS

Materials Needed:

- 1. Cloth Mop head (s) & Mop head holder(s) with handle.
- 2. Mop bucket (s) with wringer.
- 3. Clean cotton rags and sponges.
- 4. Disposable gloves
- 5. Large barrel (55 gal.) to store wastewater in after changing out of dirty scrub water. Waste water containers.
- 6. Disposable overshoes or rubber boots. Personnel conducting cleaning operations should not take clothes, boots, etc., home for laundering.
- 7. HEPA vacuum
- 8. Six (6) mill plastic bags to dispose of waste.
- 9. Detergent with surfactant, e.g., Spic-N-Span, Mr. Clean, etc.

Disposal of Waste Water and Cleaning Materials:

- NOTE: Consult with Local Army National Guard Environmental Office prior to taking any collection, disposal or wiping activities commence. Each state and territory may have additional regulatory guidance on collection, storage and disposal of wastewater.
- Mop heads should be disposed of after initial cleanup, unless otherwise advised by Environmental office personnel. Note: <u>thorough cleaning of</u> <u>mop heads may be sufficient enough to reuse on future Armory cleanups</u> but check with local Environmental Office.
- 3. Disposable gloves should be treated as hazardous waste.
- 4. Soiled cotton rags should be treated as hazardous waste.
- 5. Wash water contaminated with Lead can be collected and allowed to slowly evaporate leaving Lead deposits/sludge that may be collected in plastic containers, placed in metal drums, and stored for future delivery to an authorized hazardous waste disposal site.

- a. Drums shall be properly labeled to identify contents In-Accordance With (IAW) Federal, State and local regulatory guidance.
- b. Disposal of containerized waste shall be coordinated IAW State hazardous waste program requirements.
- c. The Environmental Office shall coordinate removal and disposal of all containerized hazardous waste through established waste streams.

Post-Cleanup Precautionary Measures:

- 1. Thoroughly wash hands with soap and water.
- Rinse off rubber boots with soap and water, capturing wastewater for collection into established waste stream. If personnel choose to use over shoes for protection, dispose of overshoes into waste stream. NOTE: <u>This recommendation is for initial clean up activities and PPE</u> requirements may be reduced after it has been determined non-hazardous levels have been achieved.
- 3. Wash BDU's or personal clothing separately from children's clothes.

NOTE: No eating, drinking or cosmetics allowed during cleanup procedures (these may be allowed after washing of hands/face and done outside of cleanup area)

NOTE: Avoid blowing, shaking or like actions which could potentially disperses lead dust. <u>Dry sweeping, dusting, wiping or blowing with compressed air shall not be permitted</u>

Initial Armory Cleanup:

- Use a vacuum cleaner equipped with a HEPA exhaust filter. HEPA vacuum all surfaces in the room (ceiling, walls trim, and floors). Start with the ceiling and work down, moving toward the entry door. <u>Completely clean each room before moving on</u>.
- Prepare water and detergent for the wipe down phase, according to manufactures recommendations.

- Wet wipe, with cotton rags or sponge, any horizontal, diagonal or vertical surfaces up six (6) feet from floor surfaces using hot water and "Spic-n-Span" or an equivalent product.
 - a. Rinse out cleaning cloths thoroughly and frequently.
 - b. Change out cleaning water as necessary.

NOTE: If walls to be cleaned show signs of deterioration, e.g., chipping or crumbling paint, in which wiping, scrubbing, or disrupting might potentially increase or spread contamination, then this portion of the clean up should be avoided.

- Now prepare water and detergent (e.g. Spic N Span, Mr. Clean, Pine Sol) for the mopping phase, according to manufactures recommendations, which should be found on the products label for general clean up.
 - a. Change out water frequently (when water appears dirty)
 - B. Rinse out mop heads frequently to prevent contamination of dirty water.
- Cover entire drill floor surface with above prescribed water and detergent.
- Final rinse should be with clean water only -after mop heads have been cleaned.

Recommended Follow-up Housekeeping Practices after Clearance sampling of cleaned area is performed by certified personnel:

 Floor cleaning and dusting should be accomplished using the wet method described in Initial Armory Cleanup SOP.

Note: Only exception to these wet cleaning procedures would be the use of a chemically treated dust floor mop. This can be used for follow-up armory cleaning by sweeping of large particles of dirt and paper.

a. Pre-treated (chemically treated) dust floor mop will limit dust particles from being disbursed into the surround atmosphere.

- b. If treated dust mop is used -<u>Do Not Shake Mop head</u> - have mop head laundered after use. <u>Always keep used dust mop heads</u> <u>in sealed double plastic bags when stored at armory/facility</u>. Shaking of mop head could release unwanted contaminants into surrounding atmosphere.
- Frequency of Cleanup- Armories will vary, according to usage and how often they should be cleaned. The following general cleaning schedule is provided:
 - a. Only full-time technicians and traditional soldiers using facility during the month. (*Cleaned Monthly*)
 - b. Occasional activities taking place during the month, e.g., 1-2 classes or volleyball games, etc. (Cleaned 2x's Monthly)
 - Used regularly by soldiers or outside agencies/personnel. (Cleaned Regularly - -at least Weekly)

NOTE: Armories with adjoining Indoor Firing Ranges (IFR) should be cleaned more than weekly, again depending on use of Armory and IFR.

NOTE: Clearance sampling/testing is to be accomplished by certified personnel after these cleanup procedures are followed. If the area is an average Armory, occupied by adults only, for which you are cleaning and is not a Converted IFR space, you may continue to utilize the Armory space before the officials re-test this space. <u>Please notify your Safety and/or Occupational Health personnel of the completion of this cleaning regime and they will notify the proper officials of the sampling/testing requirements needed.</u>

If work is contracted out, a third party should do the clearance sampling.

Young children and females who are pregnant, there should be posted signs on all facilities, warning of the potential danger of exposure to lead dust.

NEW MEXICO ARMY NATIONAL GUARD

LAS CRUCES ARMORY

249 N Armory Rd. Las Cruces, NM 88007 (576) 647 2404



Submitted to:

Ion-Responsive

National Guard Bureau Southwest Region Industrial Hygiene Office 10510 Superfortress Avenue Suite C Mather, CA 95655

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Aloha World

INDUSTRIAL HYGIENE ASSISTANCE VISIT LAS CRUCES ARMORY LAS CRUCES, NEW MEXICO



1.0. Introduction and Background

1.1. This report summarizes the results of the Industrial Hygiene (IH) Survey conducted at the Las Cruces Armory in Las Cruces, New Mexico on October 14, 2014. The Army National Guard of Industrial Hygiene Southwest Regional Manager (ARNG-IHSW) requested Aloha World to visit the Las Cruces Armory to evaluate ventilation, lighting, noise, and verify vehicle and hazardous materials inventories. The IH Survey also included an interview with Non-Responsive regarding industrial hygiene, OSHA training compliance, personnel Federal Employees Compensation Act (FECA) claims, as well as safety standards in the work area. Finally, the IH Assessment included the development of employee profiles as baseline administrative occupational health records for employees. Non-Responsive remains a baseline administrative occupational health records for employees.

1.2. The following sections will provide details on how the IH Survey was conducted. A drawing showing the facility layout and sampling locations is included as <u>Attachment E</u>. The most stringent OSHA, ARNG, Corps of Engineers (COE), American National Standards Institute (ANSI), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and Design Guide standards in effect at the time of the survey were used to assess the workplace.

1.3. The Las Cruces Armory supports the HHC 1200, 613th FSC and the 126th MP. The Armory has 22 full time guard members (**Appendix F**) and approximately 300 guardsmen and women on drill weekend. This armory was constructed in the early 1990's. The armory has offices used for administrative purposes and also contains a drill floor, arms room, supply room, classroom and weight room.

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There is a Converted Indoor Firing Range (CIFR) in this facility. The CIFR was never used as a firing range. It has always been the supply room. Weapons are cleaned in the armory.

Vehicle preventive maintenance is done at this armory on drill weekend. Most maintenance is done at FMS 2, directly next door.

2.0. Survey Procedures

2.1. Lead wipe samples were collected on dusty horizontal floor surfaces in the facility including but not limited to the drill floor and supply room, the CIFR. "Ghost Wipe" brand wipes was used with a 16 square inch template. The wipes used conform to American Standards for Testing Materials E1792-96A, *Standard Specification for Wipe Sampling Materials for Lead in Surface Dust.* The collected wipe samples were placed in clean, labeled centrifuge tubes. Samples were submitted to Reservoir Environmental Services, Inc for analysis via Flame Atomic Absorption, USEPA Method SW846 3050B. Laboratory results are listed in <u>micrograms of lead per square foot (µg/ft2)</u>. Copies of the raw analytical data are presented in **Appendix E**.

A visual inspection of materials utilized in this 1990's constructed building was performed. All accessible areas of the facility were visually inspected to identify suspect asbestos-containing materials (ACM).

Illumination measurements were taken in several areas of the armory using a Konica Minolta Light Meter, Model TL-1. Measurements in the office and classroom areas were taken at typical work locations, such as the tops of desks and near computer workstations.

Air ventilation was measured on the industrial kitchen hood but not in the maintenance bay, there was no ventilation system in the bay.

Equipment Used

Type	Model Number	Serial Number	Calibration Date
VelociCalc	8386A	54110581	March, 2014
Туре	Model Number	Serial Number	Calibration Date
Konica Mino	lta TL1	00279029	September 2014

3.0. Findings and Recommendations

Lead wipe sampling- Analytical results from the lead wipe sampling obtained from the armory are found in Table 3.1.A. A graphical and written representation of sampling locations can be found in <u>Appendix E</u> along with analytical reports. Photographs were taken of each sample point and are presented in <u>Appendix C</u>. There are currently no standards that dictate what a safe level of lead is from a wipe sample. Lead sampling results can be compared to the protocol

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outlined in the U.S. Department of Housing and Urban Development's (HUD's) *Guidelines For The Evaluation And Control Of Lead-Based Paint Hazards In Housing*, June 1997. HUD currently recommends an exposure limit of 40 ug/ft². This guideline was established to prevent lead exposure to children in domestic homes, along with females who are pregnant. Areas that have levels that exceed 40 ug/ft² should be thoroughly cleaned and employees that may come into contact with those areas should be properly trained in the hazards of lead exposure.

	Table 3.1.A	•		
Sample ID	AREA	Photo #	Result ug/ft2	
101114-1	Control	NA	BDL	
101114-2	North drill hall	2	BDL	
101114-3	Center drill hall	3	BDL	
101114-4	South drill hall	4	BDL	
101114-5	West drill hall	5	BDL	
101114-6	East drill hall	6	BDL	
101114-7	North CFR	7	66.4	
101114-8	Center CFR	8	BDL	
101114-9	South CFR	9	33.6	
101114-10	West CFR	10	46.4	
101114-11	East CFR	11	BDL	

Lead	Wipe
Table	3.1.A.

BDL= Below Detection Limits

ug/ ft2= Micrograms per Square Foot

<u>NOTE</u>: Please continue the cleaning of working environment throughout the armory, especially in weapons cleaning areas and the supply room. Please utilize the attached SOP and general information paper provided for cleaning procedures.

Recommendation: Dry sweeping should be restricted in areas where accumulations of dust are present to prevent toxic metals on surfaces from becoming airborne. The cleaning of loose material from horizontal surfaces should be conducted with HEPA (High Efficiency Particulate Air) vacuums and/or wet mopping. Any area that exceeds 40 ug/ft 2 should be thoroughly decontaminated

3.2. Asbestos Survey- Non-Responsive was asked during this survey about the presence of asbestos and he advised no asbestos has ever been found or suspected in the armory.

All accessible areas of the facility were visually inspected to identify suspect ACM. All accessible surfaces, structures, and mechanical systems within these areas were examined and all suspected ACM was inspected to determine friability. No bulk samples were taken during this survey period.

Asbestos is regulated as a hazardous air pollutant by the Environmental Protection Agency (EPA) under the authority of the Clean Air Act. The asbestos regulations are included in the

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National Emissions Standards for Hazardous Air Pollutants (NESHAPS) and are referenced as 40 CFR 61, Subpart M.

ACM is defined by the EPA, as any material containing greater than one percent of asbestos. ACMs are categorized as being either friable or non-friable. Friable ACMs are those materials that can be easily crumbled, pulverized, or otherwise broken up using hand or finger pressure when dry, and are materials considered more likely to produce airborne asbestos fibers. Nonfriable ACMs are materials that do not meet the above test, and are considered less likely to produce airborne asbestos fibers. Non-friable ACMs are further categorized into Category I nonfriable ACM (packing's, gaskets, resilient floor coverings, and asphalt roofing products) and Category II non-friable ACM (materials not included in Category I).

Limitations and Exclusions of Findings

This asbestos survey and assessment was performed using procedures and a level of diligence typically exercised by professional performing similar services. However, asbestos-containing material (ACM) can be present in a structure, but not identified using ordinary investigative procedures.

No asbestos survey can completely eliminate uncertainty regarding the presence of ACM. The level of diligence and investigative procedures are intended to reduce, but not eliminate, potential uncertainty regarding the presence of ACM.

The only way to tell if an object contains asbestos by looking at it is if the material is labeled. Otherwise, you should have it sampled and analyzed by a qualified professional. Until you receive the results, treat the material as if it contains asbestos. Samples should be extracted only by qualified professionals. If improperly done, extracting samples can be more hazardous than leaving the material undisturbed.

3.3 Indoor air quality and HVAC Systems- The armory is heated and cooled through a central air system. The Department of Military Affairs (DMA) maintains the HVAC system.

Building air temperature, within this facility, was in the comfort range for the occupants during this survey period. The day of the survey it was 62 degrees Fahrenheit outside. Inside air temperature is recommended to be between 68-75 degrees Fahrenheit and the relative humidity is to range from 30-60%. The indoor temperature was 72-75 degrees Fahrenheit. Humidity levels above 60 percent can result in proliferation of bacteria and fungi, while levels below 30 percent can cause dry eyes, skin, and mucous membranes. There were no signs of water leakage.

3.4. Exhaust and Ventilation Systems- The Las Cruces Armory maintenance bay is only used on drill weekend for preventive maintenance. All vehicle maintenance is done in FMS 2, located next door. They do not have an exhaust system in the maintenance bay. The eye wash is tested on drill weekend but is not documented.

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Recommendation: Document and check eye wash on a weekly basis (ANSZI Z87.1)

Air flow was measured in the industrial kitchen under the hood of the oven. Air flow was measured at 860 fpm. This kitchen exhaust duct meets the 2011 National Fire Protection Association Standard 96, Section 8.2.1.1, which requires exhaust fan ducts used in commercial cooking equipment to have a duct velocity of not less than 500 fpm.

3.5. Hazardous Materials Use and Storage- All Hazmat and POL's are stored and maintained at FMS 2, located next door to the armory.

Small quantities of cleaning products, utilized by the workers, were located in the janitors' closet. Arms custodians, for cleaning purposes, should be utilizing user and environmental friendly products, while the more harmful products should be properly disposed of. A well-ventilated area should be utilized when using any solvent products, along with the appropriate Personal Protective Equipment (PPE) as designated on the MSDS information sheets. The MSDS was updated and very well organized. However, it has not yet been updated to the new SDS format.

Recommendation: Update all MSDS for the facility with the new SDS format by June 2016 (CFR 1910.120)

3.6. Physical Safety and Condition of Facility- A physical walk through of the facility was conducted. Overall, housekeeping was found to be in above average condition. Electrical breaker boxes were properly labeled and accessible.

This 1990's building is of concrete block and brick construction with a concrete roof over the drill hall, tar and rock composite on remaining roof area.

The fire extinguishers within this facility are part of the fire suppression available and should be tested annually and inspected monthly. NFPA 10, 27-3.4.1 addresses alarm systems and 29 CFR 1910.157 addresses inspection requirements for fire extinguishers. Annual inspections should be accomplished by a qualified organization, e.g., fire department, and checked and documented monthly by the facilities personnel. The fire extinguishers were found to be up to date on annual and monthly inspections.

3.7. Sound Level Survey- A noise survey was not conducted in the Richfield Armory. No noise hazards were noted in the facility.

3.8. Illumination Survey- Illumination levels that were measured throughout the armory office and classroom areas can be found on the floor plan in <u>Appendix D</u>. The numbers represent the illumination level in foot-candles (FC). In general, the measurements were taken at task surface level, such as on desks. Measurements not taken on a desk were taken at waist level.

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991. In general,

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IES recommends a range of <u>50 to 100 foot-candles</u> as the minimum lighting requirements for performance of visual tasks of medium contrast or small size, such as would typically occur in an office area.

Based on these criteria, the general lighting appears to be adequate in most of the office spaces. Inadequate light levels may place strain on the eyes and cause headaches or vision problems. With an aging work force in place, task lighting can help reduce the vision problems associated with inadequate lighting.

3.9. Safety Policies, Training, and Record Keeping – The following safety policies and procedures were found at this site: Hazcom, OSHA compliance, SDS, bi annual fire drill and emergency evacuation.

4.0 Industrial Hygienist Certification and Project Limitations

All Industrial Hygiene Assessment techniques and tests used in the Industrial Hygiene survey of the Army National Guard Armories were reviewed by Non-Responsive Industrial Hygiene Southwest National Guard Bureau at (916) 854-1492.

This Project was performed using, as a minimum, practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services.

The procedures used in this investigation attempt to establish a balance between the competing goals of limiting investigative and reporting costs and time, and reducing the uncertainty about unknown conditions. Therefore, because the findings of this report were derived from the scope, costs, time, and other limitations, the conclusions should not be construed as a guarantee that all environmental or occupational hazards have been identified and fully evaluated. Where sample collection and testing have been performed, Aloha World's professional opinions are based in part on the interpretation of data from discrete sampling locations that may not represent conditions at non-sampled locations. Aloha World assumes no responsibility for omissions or errors resulting from inaccurate information or data provided by sources outside of Aloha World, or from omissions or errors in public records.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the client since Aloha World is not in a position to fully understand all of the client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

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5.0.Technical Assistance

For technical assistance regarding information found in this report or the performed survey, please contact Non-Responsive of the Southwest Regional Industrial Hygiene Office-(916) 854 1492. Contact the State Safety, State Industrial Hygiene and Occupational Health Office and/or the Regional Industrial Hygienist should any of the operations change, or should the personnel become incapable of following the previous recommendations and subsequent recommendations that are needed.

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Appendix A: References

American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation, A Manual of Recommended Practice, 23 Edition, 1998.

American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values for Chemical Substances and Physical Agents and Biological Indices for 1998.

American National Standards Institute (ANSI)/Illuminating Engineering Society (IES), Industrial Lighting 1991.

American National Standards Institute, Z358. 1-1998. Emergency Eyewash and Shower Equipment 1998.

AR 40-5, Preventative Medicine, 15 October 1990.

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

Corps of Engineers Guide Specification, CEGS-1585 1, Overhead vehicle tailpipe (and welding fume) Exhaust Systems, May 1984.

DA PAM 40-ERG, Ergonomics

DA PAM 40-501, Hearing Conservation, 27 August 1991.

National Safety Council, Fundamentals of Industrial Hygiene, 4~ edition, 1996.

NOR 385-10, Army National Guard Safety and Occupational Health Program, 29 December 1989.

TB MED 503, The Army Industrial Hygiene Program, February 1985.

TG022, US Army Environmental Hygiene Agency (USAEHA), Industrial Hygiene Evaluation Guide, October 1975

TG 141, US Army for Health Promotion and Preventive Medicine (USACHPPM) Industrial Hygiene Air Sampling Guide, Nov. 1997

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1910, Occupational Safety and Health Standards

Title 29, Code of Federal Regulations (CFR), 1998, revision Part 1926, Construction Standards

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BEST AVAILABLE COPY Industrial Hygiene Survey Las Cruces Armory

Appendix B: Assessment Criteria

A. Ventilation Standards

Ventilation rates were compared to recommendations made in the ACGIH Industrial Ventilation Manual and Corps of Engineers specifications. See Appendix A for reference information.

B. Illumination Standards

Illumination measurements were compared with recommendations made by the Industrial Engineering Society (IES)/American National Standards Institute (ANSI) RP7-1991 Standard and MIL-STD1472E.

C. Noise

Noise measurements were taken and compared with OSHA Standard 29 CFR 1910.95 and Department of the Army Pamphlet 40-501.

D. Air Sampling

Personal air sampling, if conducted, was in compliance with applicable NIOSH Analytical Methods. Sampling results were compared to relevant Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV), or National Institute of Occupational Safety and Health (NIOSH) Recommended Exposure Limits (REL).

E. Risk Assessment Codes

Risk Assessment Codes (RACs) are included in this report to quantify the risk of particular operations to employees and to establish funding priorities for corrective actions. RACs are assigned with regard to hazard severity and mishap probability. The type, length, and route of exposure are taken into consideration, as are the medical effects that would occur with such exposures.

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Photo Log

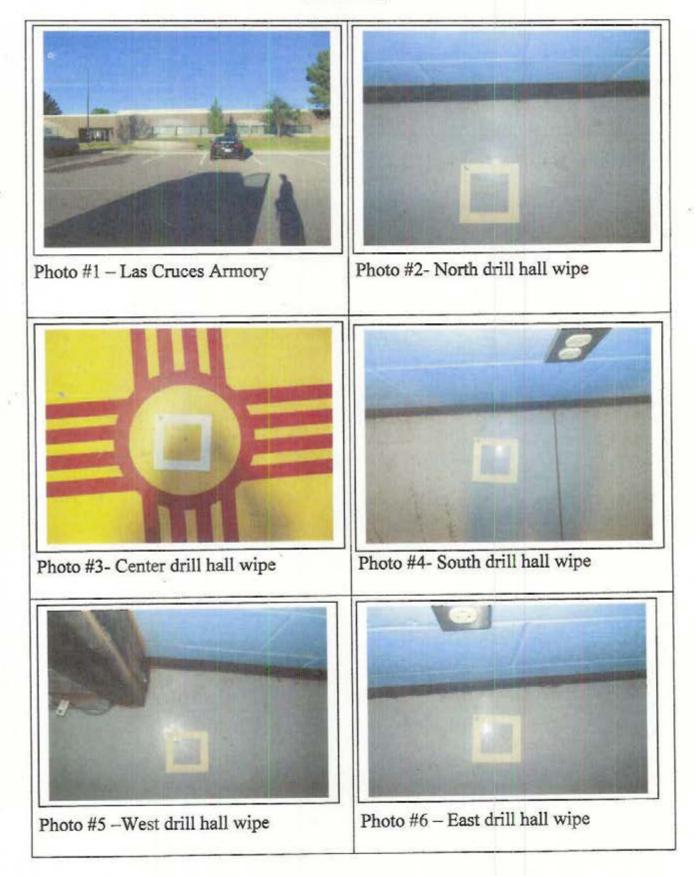


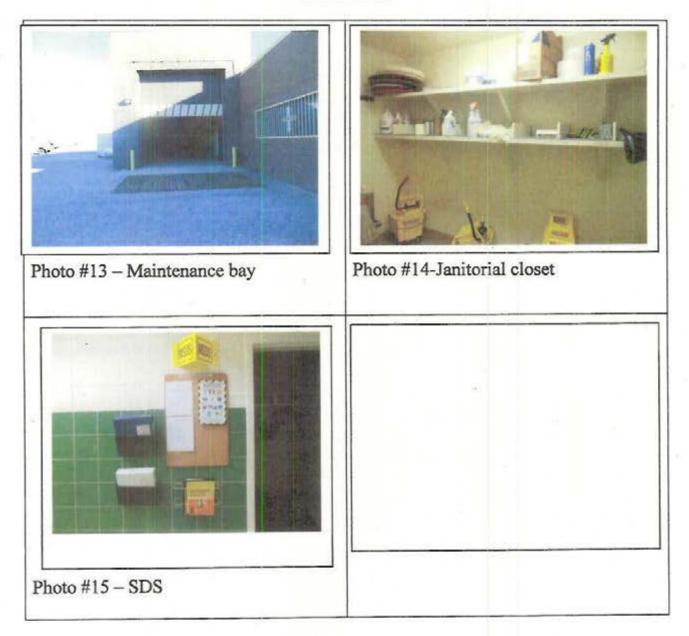
Photo Log

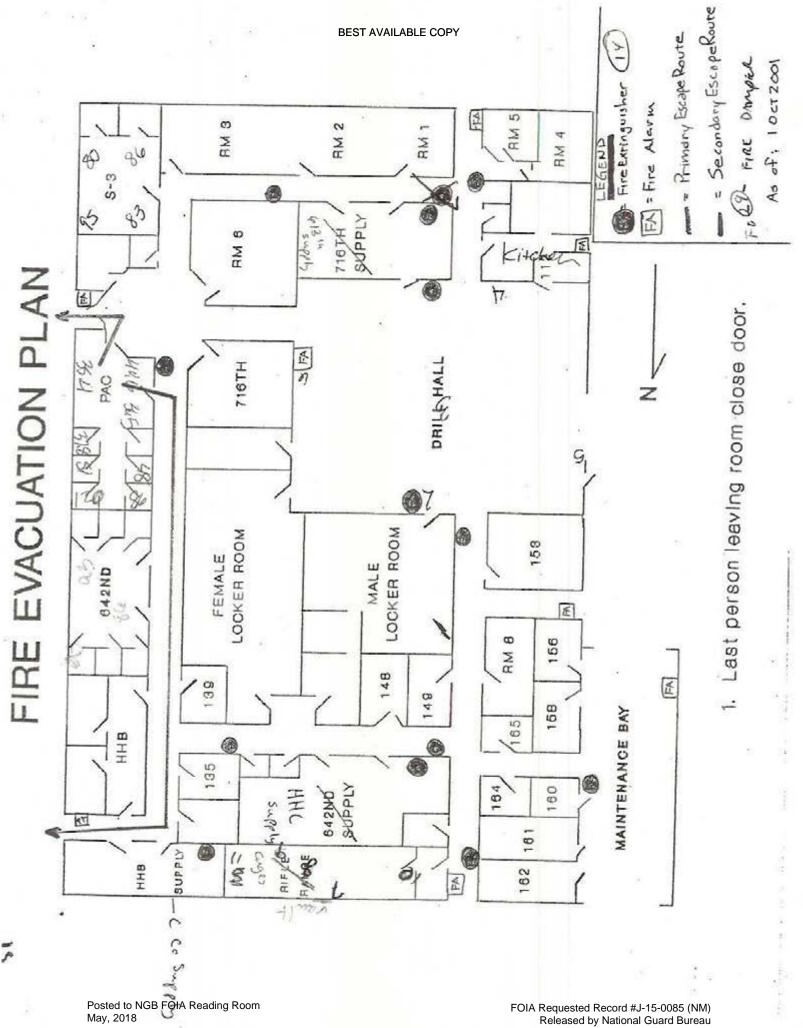


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Photo Log





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RESERVOIRS ENVIRONMENTAL, INC. 5801 Logan St., Suite 100

Denver CO 80216

TABLE ANALYSIS:

LEAD BY WIPE SAMPLING

RES 303545-1
Aloha World
101114
Las Cruces Armory
October 21, 2014
USEPA SW846 3050B / AA (7420)
3-5 Day
October 23, 2014

Client ID Number	Lab ID N	lumber	Sample Area (sq.ft.)	LEAD (µg)	Reporting Limit (µg/ft ²)	LEAD CONCENTRATION (µg/ft ²)
101114-1 Bathroom	EM	1280820	0.11	BRL	22.7	BRL
101114-2 North Drill Hall	EM	1280821	0.11	BRL	22.7	BRL
101114-3 Center Drill Hall	EM	1280822	0.11	BRL	22.7	. BRL
101114-4 South Drill Hall	EM	1280823	0.11	BRL	22.7	BRL
101114-5 West Drill Hall	EM	1280824	0.11	BRL	22.7	BRL
101114-6 East Drill Hall	EM	1280825	0.11	BRL	22.7	BRL
101114-7 North CIFR	EM	1280826	0.11	7.3	22.7	66.4
101114-8 Center CIFR	EM	1280827	0.11	BRL	22.7	BRL
101114-9 South CIFR	EM	1280828	0.11	3.7	22.7	33.6
101114-10 West CIFR	EM	1280829	0.11	5.1	22.7	46.4
101114-11 East CIFR	EM	1280830	0.11	BRL	22.7	BRL

*Calculations Based On A 1 sq.ft. Sample Area Unless Otherwise Noted

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.

1-866-RESI-ENV

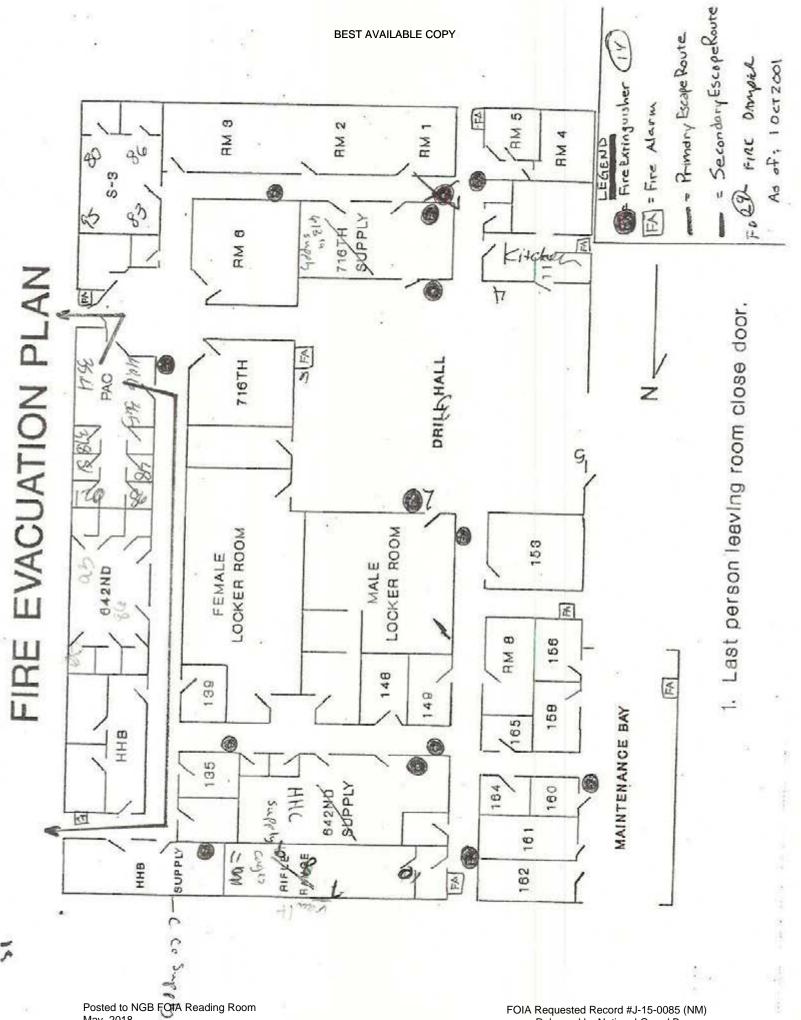
Data QA

BRL = Below Reporting Limit

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LAS CRUCES ARMORY Las Cruces, New Mexico

PERSONNEL



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Army National Guard <u>Armory</u> Survey (To Be Included In Report)

Five lead wipe samples collected from drill floor (take samples from dusty horizontal floor surfaces)	
Are any weapons cleaned in the facility, if yes where are they cleaned?	Yes
Additional lead wipe samples taken from 25% of the rest of the building(on floor areas only)	L
Is there a converted indoor firing range? If so collect additional wipe samples IAW the SOW.	Yes-never used
Is there any peeling paint? Take bulk sample if able.	no
Are there any signs of water damage or mold?	none
Any suspected ACM? Where and what condition is it in. Bulk sample if able.	no
Quality of housekeeping	good
HVAC maintenance plan in place?	State maintenance
Overall condition of HVAC system	geod
Obtained CO2, Temp, RH monitoring	60°out 73° n Kitchen- Swampcooler-ho
HAZMAT inventory on hand (make copies for the report), MSDS available for all materials.	V MSDS organized
HAZMAT storage, Condition of lockers, if outside storage building is used is it ventilated and does it meet OSHA standards.	none, FMS #2

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Fire alarm in working conditionnot usually in place in older armories	Yes
Fire extinguishers in place and properly identified and mounted	VILS
Evidence of monthly fire extinguisher inspections	4.05
Annual fire extinguisher inspections tags current	Yls
Are eye wash stations available in areas where hazardous materials are used and are they inspected weekly (inspections must be documented)	maint only used on drill - checket weekly @ drill
Egress routes accessible and properly markednoted on Fire Evacuation Plan	YLS.
Training programs in place; Hazcom, Respiratory Protection, Confined Spaces, Hearing conservation, PPE (if applicable)	hazcom, OSHA comp., SDS, biannual fire drill g emerg evac.
Any Photo labs	
Any hazardous noise sources	no
Light levels checked throughout building	
Breaker panels properly labeled with no exposed wiring	good
Check building occupancy	
 How many military personnel, how many civilian personnel What types of units occupy facility, i.e. Administrative, Maintenance, etc.? 	
Any civilian activities in armory (cub scouts, classes, day care, parties etc)	sherrifs dot a cademy - drill halls
Obtain two lead air samples	On IHSW Request Only

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Evaluate Kitchen Stove Hood Flow if Present IAW NFPA Standard 96.	360
Collect Source Noise Measurements of Kitchen Appliances and Document Using DD 2214	$n(\alpha)$
Conduct a safety walkthrough of entire facility document any safety deficiencies found.	· ·
Take photos of outside of building, all sample points and any pertinent hazards or concerns.	Non-Responsive
Name of Armory, POC, phone #, address and organizations in Armory	
(Add Checklist to Report)	(Add Checklist to Report)

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Table of Contents (MSDS)

1. Buffer Pads

2. Prime Source/Shine-On Spray Buff & Carrof Spray Buff

- 3. Simple Green
- 4. Paper Towels
- 5. Toilet Paper
- 6. Citrus Solv- Degreaser
- 7. Frequency 64- Neutral Disinfectant
- 8. Johnson Wax Professional- floor wax
- 9. Power Green
- 10. Reflecta- Neutral Floor Cleaner
- 11. Ajax
- 12. Glass cleaner
- 13. Toilet Bowl Cleaner
- 14. Aerosol Ocide Plus Disinfectant
- 15. Mop heads
- 16. Gloves
- 17. Toilet blocks
- 18. Urinal screens
- 19. Abrasive pads
- 20. Scouring bricks
- 21. Trash Bags
- 22. Hand Soap
- 23. Solar Crystals/ Water Softening Salt

Industrial Hygiene Southwest

Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS LAS CRUCES ARMORY, NEW MEXICO 88007

~ ~ ~		2
MLCA-10142014 3.0	NMLCA- 10142014-3.1	NUMBER CLOSED X
Wipe samples collected in other areas of the facility returned results below the 40 ug/ff* threshold.	Wipe sampling collected from within the space identified as an IFR returned with elevated (> 40 ug/ft2) lead levels.	HAZARD DESCRIPTION
Amory	IFR	SITE
RAC NOT ASSIGNED	ω	RAC
Recommend continued cleaning within the administrative offices, kitchen, and communal areas to maintain lead particulate concentrations below the ARNG standard of 40ug/ft2. Utilize the enciosed Clean-up SOP as a guide to assist with the prevention efforts. Ensure personnel clean-up area(s) and tables after weapons cleaning activities. Tables used for weapons cleaning should be marked, "For Weapons Cleaning Only," when utilized as such.	Occupational Safety and Health Administration (OSHA) standard for lead; 1910 1025 (h)(1) require that all surfaces shall be maintained as free as practicable of accumulations of lead. Any area that exceeds 40 ug/ f12 should be thoroughly decontaminated. Utilize Clean- Up SOP provided in the report for future cleaning episodes.	CORRECTIVE ACTIONS (Abatement Plan)
		SUSPENSE DATE
		ACTION OIC/NCOIC
		Estimated Cost(s)
		DATE
DODI 6055.01 Enclosure 4 date 14 OCT 2014 ed to NGB FOIA Reading Room	Occupational Safety and Health Administration (OSHA) standard for lead; 1910.1025 (h)(1)	REFERENCES Requeste Released

Reference DA FORM 4754 VER: 15 OCT 2009

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Industrial Hygiene Southwest

Violation Inventory Log

LOG OF SCHEDULE OF CORRECTIVE ACTION - COMPLIANCE WITH SAFETY AND HEALTH STANDARDS LAS CRUCES ARMORY NEW MEXICO 88007

CLOSED	BEST AVAILABLE COPY	101	101
NUMBER	NMLCA-10142014 3.2	NMLCA- 10142014-3,4	NMLCA- 10142014-3.5
HAZARD DESCRIPTION	During this IHSAV an Asbestos Containing Material (ACM) Management Plan could not be located	Documentation could not be located to determine if the Emergency Eyewash/Deluge Shower system is being inspected/checked weekly	MSDS's are still used at the facility listing the harmful chemicals/products within the facility. The new format, Safety Sata Sheets (SDS), should be utilized to comply with the current Hazard Communication Program requirements.
SITE	Armory	Armory	Armory
RAC	*	4	4
CORRECTIVE ACTIONS (Abatement Plan)	Conduct a facility survey to identify Asbestos Containing Material (ACM) within the facility and develop ACM Management Plan. Conduct awareness training to all personnel who occupy, or frequent the facility as t relates to the findings and the ACM Management Plan. The survey may have been completed, however, at the time of this assistance visit, awareness training. ACM identification, or an ACM Management Plan was not available.	Document on inspection tag and check eye wash on a weekly basis	Update current chemical inventory list and acquire all current SDS's for the hazardous materials used/maintained in this facility.
SUSPENSE	2. U		
ACTION OIC/NCOIC			
Estimated Cost(s)			
DATE			*
REFERENCES	1910.1001 FOIA Reg	ANSI Z358 1-2009	(29 CFR 1910 1200) ed to NGB FOIA Reading

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Reference DA FORM 4754 VER: 15 OCT 2009