

**Former National Guard Armory
McAlester, Oklahoma**

Remediation Final Report



**Prepared by:
Department of Environmental Quality
707 North Robinson
Oklahoma City, Oklahoma 73101**



The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the City of McAlester with the Final Remediation Report for the former McAlester Armory.



DEED NOTICE

A Notice of Remediation has been filed in the county courthouse and is included in this report. It summarizes remediation performed at the former McAlester Armory and describes continuing operation and maintenance and land use restrictions. This completes the DEQ cleanup of the property. For more detail on the activities described below, see enclosed reports.

ASBESTOS REMEDIATION

DEQ and its contractors completed the following activities:

- Asbestos inspection, including:
 - ◊ Floor tile, mastic, bedding mud, and transite materials
- Asbestos Abatement, including:
 - ◊ Removal of all asbestos-containing floor tile, mastic, bedding mud, and the transite soffit and siding from building 4

TARGETED BROWNFIELD ASSESSMENT

On May 8, 2013, DEQ provided a Phase I Targeted Brownfield Assessment to the City of McAlester. A copy of this report is available at <http://www.deq.state.ok.us/lpdnew/scapIndex.htm>

LEAD REMEDIATION

DEQ and its contractors completed the following activities:

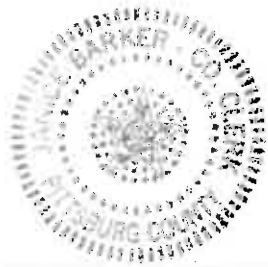
- Lead-based paint (LBP) and lead dust inspection
- LBP abatement, including:
 - ◊ Scraping and sealing down spouts, window lintels and sills, overhead door frames, door guards, and casings, exterior trim, lead-based painted walls, and the handrails located in the drill floor
 - ◊ Removal and replacement of doors and windows containing LBP
- Indoor firing range cleanup, including:
 - ◊ Lead dust cleanup: high efficiency particulate air (HEPA) vacuuming, wet washing, and sealing with appropriate sealant floors, walls, and ceiling
- HEPA vacuuming and wet washing of floors in the building



1	Deeds and Legal Documents
2	Maintenance Plan
3	Inspection Reports
4	Scope of Work
5	Final Abatement Reports
6	Confirmation Sampling

DEEDS AND LEGAL DOCUMENTS

7384 Rev. 0-



238494

STATE OF OKLAHOMA
PITTSBURG COUNTY
FILED OR RECORDED

2011 AUG 18 AM 11:47

JANICE PARKER
COUNTY CLERK

10.00
5.00

QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS:

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto City of McAlester, Oklahoma, Grantee, the following described real property and premises lying and situated in the Pittsburg County, State of Oklahoma, as follows:

All of Lots 9 and 10 and the West 39 feet of Lot 11; and

The south half of Lots 6,7, and 8 and the east 61 feet of Lot 11 and that part of the alley as follows: beginning at the southwest corner of Lot 8; thence in a southerly direction a distance of 20 feet to the northwest corner of Lot 9; thence in an easterly direction a distance of 300 feet to the northeast corner of Lot 11; thence in a northerly direction a distance of 20 feet to the southeast corner of Lot 6; thence in a westerly direction a distance of 300 feet to the point of beginning; and

The north half of lots 6, 7, and 8, Block 99, and the south half of vacated Taylor Avenue adjacent to lots 6,7, and 8; and

The northerly 80.50 feet of Lot 5; and

Lots 5 and 12;

All in Block 99 in the City of McAlester, Pittsburg County, State of Oklahoma;

together with the improvements thereon and appurtenances thereunto belonging.


NOTICE: THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.

TO HAVE AND TO HOLD unto the Grantee, its successors, and assigns for so long as said real property is used for a public purpose as required for this transfer in accordance with title 44, section 233 3(B) of the Oklahoma Statutes.

Signed and delivered this 18 day of August 2011.

PK 0018942113

STATE OF OKLAHOMA

By: 
Major General Myles L. Deering,
Adjutant General of the State of Oklahoma

ACKNOWLEDGMENT

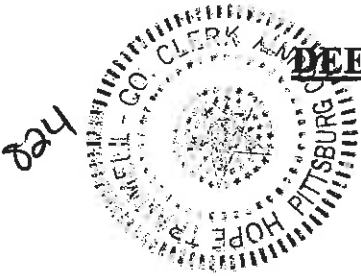
STATE OF OKLAHOMA)
) ss
COUNTY OF OKLAHOMA)

Before me, Jennifer Meyer in and for this state, on this 18 day of August, 2011, personally appeared Major General Myles L. Deering, as Adjutant General of the State of Oklahoma, to me known to be the identical person who executed the within and foregoing Quitclaim Deed, and acknowledged to me that he executed the same as free and voluntary act and deed for the uses and purposes therein set forth.

Jennifer Meyer
Notary Public

 My Commission Expires:
11/23/12
My Commission Number:
040000685

0018947414



DEED NOTICE & LAND USE RESTRICTIONS

**NOTICE OF REMEDIATION
FORMER McALESTER ARMORY
McALESTER, OKLAHOMA**

I-2015-000881 Book 2149 Pg:261
02/03/2015 12:53 pm Pg 0261-0264
Fee: \$ 19.00 Doc: \$ 0.00
Hope Trammell - Pittsburg County Clerk
State of Oklahoma

AFFECTED PROPERTY: The Affected Property is the former McAlester Armory located at 319 East Polk Avenue, City of McAlester, Pittsburg County, Oklahoma 74502.

The legal description is as follows:

All of Lots 9 and 10 and the West 39 feet of Lot 11; and

The south half of Lots 6,7, and 8 and the east 61 feet of Lot 11 and that part of the alley as follows: beginning at the southwest corner of Lot 8; thence in a southerly direction a distance of 20 feet to the northwest corner of Lot 9; thence in an easterly direction a distance of 300 feet to the northeast corner of Lot 11; thence in a northerly direction a distance of 20 feet to the southeast corner of Lot 6; thence in a westerly direction a distance of 300 feet to the point of beginning; and

The north half of lots 6, 7, and 8, Block 99, and the south half of vacated Taylor Avenue adjacent to lots 6,7, and 8; and

The northerly 80.50 feet of Lot 5; and

Lots 5 and 12;

All in Block 99 in the City of McAlester, Pittsburg County, State of Oklahoma;

LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statutes, 27A O.S. § 2-7-123 (C). This Notice does not grant any right to any person not already allowed by law and shall not be construed to authorize or encourage any person or other legal entity to cause or increase pollution, to avoid compliance with state or federal laws and regulations regarding pollution or to escape responsibility for maintaining environmentally sound operations.

DEQ may take administrative or civil action to recover costs or to compel compliance with the Land Use Restrictions and to prevent damage to or interference with the Engineering Controls and Continuing Operation and Maintenance of said Engineering Controls herein described.

The Land Use Restrictions, Engineering Controls and Continuing Operation and Maintenance of said Engineering Controls shall apply to the Affected Property and to persons who own and/or use the Affected Property until such time as DEQ files a subsequent Notice of Remediation that changes or removes one or more of them. Activities that cause or could cause damage to the Remedy or the Engineering Controls or recontamination of soil or groundwater are prohibited.

REASON FOR NOTICE: The Affected Property was contaminated with materials that required remediation pursuant to state and federal environmental laws and regulations. Sampling performed by DEQ contractors, conducted on December 27, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building.

REMEDY: Remediation activities ("Remedy") at the Affected Property included abatement of asbestos, lead-based paint and dust. The remedy was completed on May 16, 2014.

For more detailed information please refer to *Former National Guard Armory McAlester, Oklahoma Remediation Final Report*. To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality
Central Records

Mailing Address
P.O. Box 1677
Oklahoma City, Oklahoma 73101

Physical Address
707 N Robinson
Oklahoma City, OK 73102

Electronic Address
<http://www.deq.state.ok.us/lpdnew/scapIndex.htm>

I-2015-000881 Book 2149 Pg:262
02/03/2015 12:53 pm Pg 0261-0264
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Hope Trammell - Pittsburg County Clerk
State of Oklahoma

DISCLAIMER:

(A) **Lead:** DEQ did not test every painted surface inside and outside of the building; therefore, there is a potential for lead-based paint at the affected property.

(B) **Asbestos:** DEQ did not test all building materials inside and outside of the building; therefore, there is a potential for asbestos at the affected property.

CONTINUING OPERATION, MAINTENANCE AND MONITORING

(A) **Lead-based paint encapsulant:** Lead-based paint encapsulant was applied over lead-based paint on non-friction surfaces. These areas should be periodically inspected and maintained as appropriate.

(B) **Sealant:** Following cleanup, sealant was applied to the Indoor Firing Range (IFR) and room floors where lead-based paint abatement was performed. Sealant should be inspected on a periodic basis and maintained as appropriate.

LAND USE RESTRICTIONS: The land use restrictions are applicable to the IFR. The IFR is located below grade on the west side of the building. The entrance to the IFR is a stairway located in the northwest corner of the building. The land use restrictions for the IFR are:

- a. No residential, daily care, pre K-12 schools, or edible agriculture uses.
- b. No residential use, as defined by US Housing and Urban Development, by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty-four (24) hour period.

I-2015-000881 Book 2149 Pg: 263
02/03/2015 12:53 pm Pg 0261-0264
Fee: \$ 19.00 Doc: \$ 0.00
Hope Trammell - Pittsburg County Clerk
State of Oklahoma

CHANGING LAND USE RESTRICTIONS: Changes to land use restrictions must be approved by DEQ or its successor agency. The person requesting the change in land use must demonstrate to DEQ's satisfaction that contamination at the site has reached levels appropriate for the proposed new land uses and that further remediation is not necessary or that additional institutional or engineering controls are adequate to achieve levels protective of human health and the environment for the proposed uses.

DEQ may require oversight costs, work plans, sampling, reports, and public participation as part of its review of the new information to support the requested change in land use restrictions. The person requesting the change will be required to follow agency procedures effective at the time of the request.

DEQ at its discretion may determine, based on the new information submitted, that contaminants are present at the Site at levels that will not pose a risk to human health or the environment if the new land use restrictions being requested are allowed. Upon making this determination, DEQ will file a recordable notice of remediation pursuant to state law in the land records in the office of the county clerk where the Site is located designating the new land use restrictions.

This Notice of Remediation and the restrictions and requirements contained herein run with the land and no change of ownership of the Affected Property will change the Land Use Restrictions.



Scott A. Thompson, Executive Director
Oklahoma Department of Environmental Quality

1-7-15

Date

ACKNOWLEDGMENT

I-2015-000881 Book 2149 Pg:264
02/03/2015 12:53 pm Pg 0261-0264
Fee: \$ 19.00 Doc: \$ 0.00
Hope Trammell - Pittsburg County Clerk
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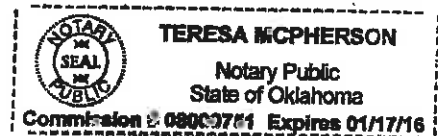
STATE OF OKLAHOMA
COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 7th day of Jan,
2015, personally appeared Scott A. Thompson to me known to be the identical person who
executed the within and foregoing instrument and acknowledged to me that executed the same as
free and voluntary act and deed for the uses and purposed therein set forth. In Testimony
Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

January 17, 2016.

Teresa McPherson
Notary Public



MAINTENANCE PLAN

**MAINTENANCE PLAN
FORMER McALESTER ARMORY
McALESTER, OKLAHOMA**

The Armory located at 319 East Polk Avenue, McAlester, Oklahoma, 74502, was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Please refer to Attachment 1 for land use restrictions. Sampling performed by DEQ contractors, conducted on December 27, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building. Remediation activities at the Affected Property included abatement of asbestos, lead-based paint, lead dust, and water from the Indoor Firing Range (IFR). The remedy was completed on May 16, 2014. The following maintenance plan is to be completed by the owner of the Affected Property. DEQ recommends inspection of remediated areas every 5 years. During site inspections the owner should note any signs of disrepair or improper maintenance. Continuing operation, maintenance and monitoring should include:

1. Firing Range – Walls, floor and ceiling of indoor firing range were cleaned and sealed with acrylic sealant to remediate surfaces below 40µg/SF for lead. These surfaces need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking.
2. All window lintels, window sills, overhead door (OHD) frames, OHD guards, OHD casings, and down spouts from Building 1 and all OHD guards from Building 3 were scraped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking.
3. The drill floor handrails, the exterior trim from Building 6 and the north wall in Room 4 of Building 7 were scraped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking. See Attachment 2 for McAlester Armory Floor Plan Map.
4. The floor of Room 2 of Building 1 and the door threshold on the exterior of Building 1 were cleaned and sealed with an epoxy coating to remediate surfaces below 40µg/SF for lead. These surfaces need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking. See Attachment 2 for McAlester Armory Floor Plan Map.
5. The ceiling in Building 5 and the roof of Building 7 contain transite asbestos. The ceiling and roof were in good condition and were therefore left in place.

Note – A list of DEQ approved acrylic sealant and elastomeric encapsulants is attached (Attachment 3). DEQ did not test every painted surface and all building materials inside and outside of the building, therefore there is a potential for lead-based paint and asbestos at the affected property.

If you have any questions or concerns feel free to contact me at (405) 702-5112.

Sincerely,


Brittany R. Downs

Environmental Programs Specialist

DEQ Land Protection Division, Site Cleanup Assistance Program

ATTACHMENT 1

Land use Restrictions

LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

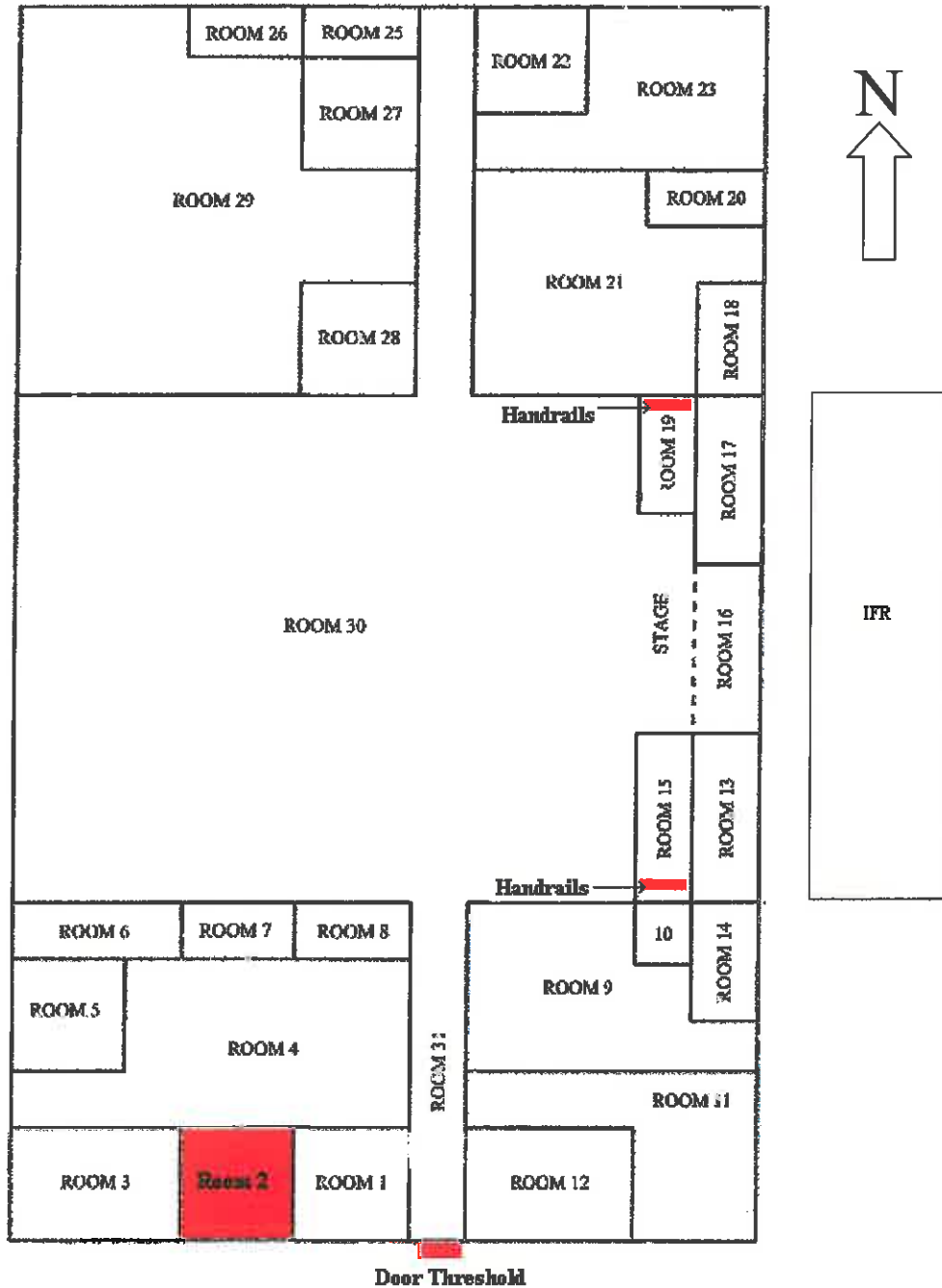
- a. No residential, daily care, pre K-12 schools, or edible agriculture uses of the Indoor Firing Range.
- b. No residential use of the Indoor Firing Range by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty-four (24) hour period.

ATTACHMENT 2

McAlester Armory Floor Plan Maps

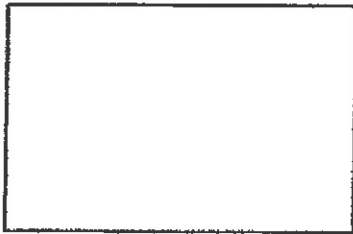
Labeled areas represent walls and floors with encapsulant and/or sealant. IFR is below grade.

Building 1

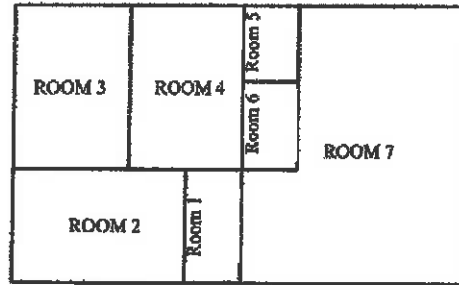


McAlester Armory Auxiliary Buildings

Building 2



Building 3



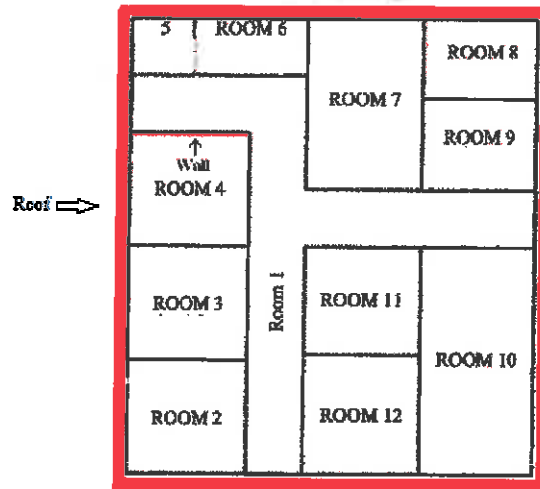
Building 4 (Demolished)



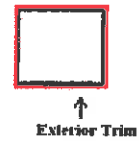
Building 5



Building 7



Building 6



ATTACHMENT 3

DEQ Approved Sealants and Encapsulants List

Acrylic Sealant approved by DEQ

KM-669 Acrylic

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK™
Dumond Chemicals	LEAD STOP™
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal™ I
Encap Systems Corporation	EncapSeal™ II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock™
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP™
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

INSPECTION REPORTS

McALESTER ARMORY

*319 East Polk Avenue
McAlester, Oklahoma 74502*

December 27, 2011

*Asbestos Inspection
Department of Central Services Contract Number: 12070-4*

Services Provided For:

*Oklahoma Department of Environmental Quality
Land Protection Division
Care Of: Dustin Davidson, Environmental Programs Specialist
Post Office Box: 1677
Oklahoma City, Oklahoma 73102
Phone: 405.702.5115
Email: dustindavidson@deq.ok.gov*

Services Provided By:

*Marshall Environmental Management, Incorporated
Attention: Jamie Marshall, Industrial Hygiene Associate
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
Phone: 405.616.0401
Email: marshenv@swbell.net*

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CERTIFICATION

This is to certify that, on December 27, 2011 Marshall Environmental Management, Incorporated was contracted by the State of Oklahoma, Department of Central Services to conduct an Asbestos Inspection of the McAlester Armory, located at 319 East Polk Avenue in McAlester, Oklahoma, for the State of Oklahoma Department of Environmental Quality, Land Protection Division. This Asbestos Inspection was performed by a licensed, Oklahoma Department of Labor, Asbestos Hazard Emergency Response Act Inspector Jamie Marshall, representative of Marshall Environmental Management, Incorporated, under the direction of a licensed, Oklahoma Department of Labor, Asbestos Hazard Emergency Response Act Management Planner Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Incorporated. The findings and analytical data resulting from this Asbestos Inspection are believed to accurately, depict the condition(s) and location(s) of material(s) that contain asbestos on the date this Inspection was conducted.



3-8-12

Dr. Charles L. Marshall, CIH, CSP

Date

- Certified Industrial Hygienist - Comprehensive Practice Certification* #4489
- Certified Safety Professional - Comprehensive Practice Certification* #9941
- Registered Professional Environmental Specialist - State Department of Health* #710
- Certified Hazardous Materials Manager, Master Level Certification* #1909
- Certified Healthcare Safety Professional, Master Level Certification* #521
- EPA AHERA Certifications*
 - Asbestos Inspector/Management Planner* #703240
 - Project Designer* #600556
- ODOL License*
 - Management Planner* #OK-MP130246
 - Project Designer* #OK-PD140028



3-8-12

Jamie Marshall, B.S., Industrial Hygiene Associate

Date

- EPA AHERA Certifications*
 - Asbestos Inspector/Management Planner* #703330
 - Project Designer* #600539
- ODOL License*
 - Management Planner* #OK-MP400477
 - Project Designer* #OK-PD400478

LABORATORY ANALYSIS PERFORMED BY

Marshall Environmental Management, Incorporated
1601 Southwest 89th Street, A-100
Oklahoma City, Oklahoma 73159

McALESTER ARMORY & AUXILIARY BUILDINGS

ASBESTOS INSPECTION

EXECUTIVE SUMMARY

On December 27, 2012, Marshall Environmental Management, Incorporated (MEM) completed an Asbestos Inspection of the McAlester Armory and six auxiliary buildings as part of the Oklahoma Department of Environmental Quality (ODEQ), Land Protection Division (LPD) Site Cleanup Assistance Program and Armory Cleanup Program. This Asbestos Inspection was accomplished so that a strategy, which follows the regulations set forth by the Environmental Protection Agency (EPA), may be prepared for the management and/or abatement of Asbestos Containing Materials (ACM) if present. As such, the analytical results identified the presence of asbestos-containing floor tile, floor-tile mastic and bedding mud in the Armory (building 1), asbestos-containing floor tile, cement board (i.e. Transite) and bedding mud in auxiliary building 7 and Transite in auxiliary buildings 4 and 5. The asbestos containing homogenous materials (i.e. suspected ACM that are uniform in color and texture and believed to be applied during the same period) are listed in the tables in the Observations and Findings portion of this Report.

The asbestos concentrations identified in the floor tile, floor-tile mastic and Transite were greater than one percent (>1%). Furthermore, the floor tile, floor-tile mastic and Transite are considered non-friable that which **cannot** be rendered to a powder via hand pressure. As a result, the floor tile, floor-tile mastic and Transite are categorized as a "Category I Non-Friable" ACM. Moreover, the asbestos concentrations detected in the bedding mud were >1% and because this material is considered friable, that which **can** be rendered to a powder via hand pressure, the asbestos-containing bedding mud is classified as a "Regulated" ACM. Although asbestos-containing floor tile, floor-tile mastic, Transite and bedding-mud exist within the Armory and auxiliary buildings, no action is required as long as these ACM remain in good condition and undisturbed. However, if asbestos-containing floor tile, floor-tile mastic, Transite and bedding-mud remain in place, an Asbestos Management Plan should be written, by a Licensed Oklahoma Department of Labor (ODOL) Management Planner, for the purpose of preventing or assisting with activities that could disturb these ACM. The asbestos-containing floor tile, floor-tile mastic, Transite and bedding-mud must be abated should any activities render or have the potential to render these ACM friable.

Even though the abatement of Category I Non-Friable ACM is not regulated by the ODOL, an Asbestos Abatement Contractor licensed by the ODOL is recommended to carry out the abatement of the asbestos-containing floor tile, floor-tile mastic and Transite to make certain that Occupational Safety and Health Administration (OSHA) and EPA compliant methods are utilized. As required by EPA regulations, the abatement and disposal of the asbestos-containing bedding mud must be treated as a regulated response action, which must be accomplished by a licensed ODOL Asbestos Abatement Contractor. Furthermore, due to the quantities of asbestos-containing bedding mud a Project Design written by a licensed, ODOL Asbestos Project Designer must be submitted to and approved by the ODOL prior to the initiation of any abatement activities. Lastly, a National Emission Standard for Hazardous Air Pollutants (NESHAP) Notification must be submitted to the ODEQ 10-business days preceding the initiation of any renovation and/or demolition activities where ACM are present in quantities that meet or exceed 160-square feet (ft²), 260-linear ft or 35-cubic ft (ft³). The remainder of this Report is comprised of the Sampling Strategy and Methodology, the Observations and Findings, Asbestos Response Actions, the Regulatory Review, Limitations of the Survey and the Appendix to this Report.

SAMPLING STRATEGY AND METHODOLOGY

Each accessible area throughout the Armory and auxiliary buildings was systematically inspected in order to collect samples of materials suspected of containing asbestos. The sample collection process includes thoroughly documenting the location, condition, classification and the estimated quantity of material(s) suspected of containing asbestos. Suspect ACM that are uniform in color and texture and believed to be applied during the same period are described as "Homogenous." A specified number of samples are collected from a homogenous material and if laboratory analyses determine that the material contains asbestos, the entirety of the homogenous area is considered asbestos containing. The following are examples of the types of materials that were visually inspected and sampled during this Asbestos Inspection:

Surfacing Materials

- Examples include, but are not limited to, blown on or troweled on surfacing material commonly observed on ceilings, walls or structural steel.

Thermal System Insulation

- Examples include, but are not limited to insulation on piping, thermal process or Heating Ventilation and Air Conditioning (HVAC) equipment and components.

Miscellaneous Materials

- Examples include, but are not limited, to floor and ceiling tiles, mastics, vinyl sheet-flooring, wallboard, wallboard-tape and mud or joint compounds.

"Asbestos Containing Materials" are any materials, which consist of greater than one percent (>1%) asbestos as defined by the EPA Approved Analytical Method: 40 Code of Federal Regulations (CFR) Chapter I, Part 763, Subpart F, Appendix C, referred to as "*Interim Method for determination of Asbestos in Bulk Insulation Samples*," using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982. Each sample collected was submitted for analysis in accordance with the EPA authorized Method: 600 49 CFR Part 61 Subpart M, Asbestos NESHAP Rules.

OBSERVATIONS AND FINDINGS

The McAlester Armory consists of a one-story structure with a brick façade, flat roof and a basement that was previously utilized as an Indoor Firing Range (IFR) in addition to six auxiliary buildings that were located in the immediate vicinity of the Armory. The Armory and auxiliary building were constructed circa 1936. Table I summarizes the sampling location and description of the ACM, the type of asbestos, the percent detected and the type and condition of the material. Table II reflects the homogenous locations and quantities of the respective ACM.

TABLE I: ASBESTOS-CONTAINING MATERIALS**ARMORY BUILDING I**

SAMPLE #	SAMPLE LOCATION	DESCRIPTION	ASBESTOS TYPE	%	MATERIAL TYPE	CONDITION
0003-76	ROOM 1 WEST - FLOOR	FLOOR TILE	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-77	ROOM 1 EAST - FLOOR	FLOOR TILE	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-78	ROOM 1 CENTER - FLOOR	FLOOR TILE	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-79	ROOM 1 WEST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-80	ROOM 1 EAST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-81	ROOM 1 CENTER - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-49	ROOM 6 SOUTH - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	8	MISCELLANEOUS	GOOD
0003-50	ROOM 6 EAST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	8	MISCELLANEOUS	GOOD
0003-51	ROOM 6 WEST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	8	MISCELLANEOUS	GOOD
0003-16	ROOM 7 EAST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-17	ROOM 7 WEST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-82	ROOM 7 NORTH - FLOOR	FLOOR TILE	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-83	ROOM 7 EAST - FLOOR	FLOOR TILE	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-85	ROOM 7 NORTH - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-86	ROOM 7 EAST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-18	ROOM 8 - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-84	ROOM 8 - FLOOR	FLOOR TILE	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-87	ROOM 8 - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-61	ROOM 14 CENTER - CEILING	BEDDING MUD	CHRYROTILE	2	SURFACING	GOOD
0003-62	ROOM 14 WEST - CEILING	BEDDING MUD	CHRYROTILE	2	SURFACING	GOOD
0003-63	ROOM 14 SOUTH - CEILING	BEDDING MUD	CHRYROTILE	2	SURFACING	GOOD
0003-55	ROOM 27 NORTH - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-56	ROOM 27 EAST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD
0003-57	ROOM 27 WEST - UNDER FLOOR TILE	BLACK MASTIC	CHRYROTILE	3	MISCELLANEOUS	GOOD

AUXILIARY BUILDING 4

SAMPLE #	SAMPLE LOCATION	DESCRIPTION	ASBESTOS TYPE	%	MATERIAL TYPE	CONDITION
0003-100	EXTERIOR SIDING/SOFFIT	TRANSITE	CHRYSTILE	40	MISCELLANEOUS	GOOD

AUXILIARY BUILDING 5

SAMPLE #	SAMPLE LOCATION	DESCRIPTION	ASBESTOS TYPE	%	MATERIAL TYPE	CONDITION
0003-107	CEILING	TRANSITE	CHRYSTILE	40	MISCELLANEOUS	GOOD

AUXILIARY BUILDING 7

SAMPLE #	SAMPLE LOCATION	DESCRIPTION	ASBESTOS TYPE	%	MATERIAL TYPE	CONDITION
0003-123	ROOM 1 - FLOOR	FLOOR TILE	CHRYSTILE	3	MISCELLANEOUS	GOOD
0003-124	ROOM 2 - FLOOR	FLOOR TILE	CHRYSTILE	3	MISCELLANEOUS	GOOD
0003-125	ROOM 3 - FLOOR	FLOOR TILE	CHRYSTILE	3	MISCELLANEOUS	GOOD
0003-129	ROOM 1 - WALL	BEDDING MUD	CHRYSTILE	2	SURFACING	GOOD
0003-130	ROOM 1 - WALL	BEDDING MUD	CHRYSTILE	2	SURFACING	GOOD
0003-131	ROOM 6 - WALL	BEDDING MUD	CHRYSTILE	2	SURFACING	GOOD
ASSUMED	ROOF	TRANSITE	CHRYSTILE	40	MISCELLANEOUS	GOOD

**TABLE II: ASBESTOS-CONTAINING HOMOGENOUS LOCATIONS & QUANTITIES
ARMORY BUILDING 1**

HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 1 - ROOM 1 - UNDER FLOOR TILE	BLACK MASTIC (2-LAYERS)	200-FT ² (2)	~2,200-FT ²
BUILDING 1 - ROOM 6 - UNDER FLOOR TILE	BLACK MASTIC	400-FT ²	
BUILDING 1 - ROOM 7 - UNDER FLOOR TILE	BLACK MASTIC	200-FT ²	
BUILDING 1 - ROOM 8 - UNDER FLOOR TILE	BLACK MASTIC	200-FT ²	
BUILDING 1 - ROOM 13 - UNDER FLOOR TILE	BLACK MASTIC	400-FT ²	
BUILDING 1 - ROOM 14 - UNDER FLOOR TILE	BLACK MASTIC	300-FT ²	
BUILDING 1 - ROOM 16 - UNDER FLOOR TILE	BLACK MASTIC	200-FT ²	
BUILDING 1 - ROOM 26 - UNDER FLOOR TILE	BLACK MASTIC	100-FT ²	
BUILDING 1 - ROOM 27 - UNDER FLOOR TILE	BLACK MASTIC	200-FT ²	
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 1 - ROOM 1 - FLOOR	FLOOR TILE (2-LAYERS)	200-FT ² (2)	~1,100-FT ²
BUILDING 1 - ROOM 3 - FLOOR	FLOOR TILE	400-FT ²	
BUILDING 1 - ROOM 5 - FLOOR	FLOOR TILE	100-FT ²	
BUILDING 1 - ROOM 7 - FLOOR	FLOOR TILE	200-FT ²	
BUILDING 1 - ROOM 8 - FLOOR	FLOOR TILE	200-FT ²	
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 1 - ROOM 14 - CEILING	BEDDING MUD	300-FT ²	~300-FT ²
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 4 - EXTERIOR SIDING/SOFFIT	TRANSITE	1,100-FT ²	~1,100-FT ²
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 5 - CEILING	TRANSITE	150-FT ²	~150-FT ²
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 7 - ROOM 1 - FLOOR	FLOOR TILE	300-FT ²	~1,800-FT ²
BUILDING 7 - ROOM 2 - FLOOR	FLOOR TILE	200-FT ²	
BUILDING 7 - ROOM 3 - FLOOR	FLOOR TILE	200-FT ²	
BUILDING 7 - ROOM 4 - FLOOR	FLOOR TILE	200-FT ²	
BUILDING 7 - ROOM 7 - FLOOR	FLOOR TILE	400-FT ²	
BUILDING 7 - ROOM 8 - FLOOR	FLOOR TILE	200-FT ²	
BUILDING 7 - ROOM 9 - FLOOR	FLOOR TILE	300-FT ²	
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
BUILDING 7 - ROOM 1 - WALL	BEDDING MUD	1,000-FT ²	~1,700-FT ²
BUILDING 7 - ROOM 5 - WALL	BEDDING MUD	400-FT ²	
BUILDING 7 - ROOM 6 - WALL	BEDDING MUD	300-FT ²	
HOMOGENOUS LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITIES	TOTAL QUANTITIES
ROOF	TRANSITE	3,900-FT ²	3,900-FT ²

ASBESTOS RESPONSE ACTIONS

NON-REGULATED ASBESTOS-CONTAINING MATERIALS

- As long as the asbestos-containing floor tile, floor-tile mastic and Transite remain in good condition and undisturbed no action is required.
- An Asbestos Management Plan should be written if the asbestos-containing floor tile, floor-tile mastic and Transite remain in place.
- The asbestos-containing floor tile, floor-tile mastic and Transite must be abated should any activities render or have the potential to render these ACM friable.
- An Asbestos Abatement Contractor licensed by the ODOL is recommended to carry out the abatement of the asbestos-containing floor tile, floor-tile mastic and Transite if abatement is necessary.
- A NESHAP notification must be submitted to the ODEQ 10-business days preceding the initiation of renovation and/or demolition activities where ACM are present in quantities that meet or exceed 160-ft.², 260-linear feet or 35-ft.³.

REGULATED ASBESTOS-CONTAINING MATERIALS

- As long as the asbestos containing bedding mud remain in good condition and undisturbed no action is required.
- An Asbestos Management Plan should be written if the asbestos-containing bedding mud remains in place.
- The asbestos-containing bedding-mud must be abated should any activities render or have the potential to render this ACM friable.
- If abatement becomes necessary, the abatement of the asbestos-containing bedding mud must be treated as a regulated response action, which must be accomplished by an Asbestos Abatement Contractor.
- An asbestos Project Design must be submitted to and approved by the ODOL prior to the initiation of the abatement of the asbestos-containing bedding mud.
- Ten (10) business days preceding the initiation of **any** renovation and/or demolition activities, a NESHAP Notification must be submitted to the ODEQ.

REGULATORY REVIEW

Prior to 1980 asbestos was commonly utilized during construction in addition to being found in various building materials. In 1994, OSHA required employers to identify ACM in pre-1980 construction as part of its Standard for Occupational Exposure to Asbestos in Construction (29 CFR 1926.1101). This OSHA standard covers maintenance, repair and removal functions involving ACM or Presumed ACM (PACM). Without Asbestos Inspections, owners and/or operators must treat suspected ACM as asbestos containing. The EPA and the ODOL define an ACM as any material that contains concentrations of asbestos >1%.

The ODOL regulates the Hazard Communication requirements for public employees as part of the ODOL Public Employees Occupational Safety and Health (PEOSH) Program. The State of Oklahoma Hazard Communication Standard (HAZCOM), revised as of August 2006, is provided in the Oklahoma Asbestos Control Act (OAC) 380 Chapter 45: http://www.ok.gov/odol/documents/Asbestos_law_rules.pdf

Specific provisions of the OAC Standard (45-15-1) address asbestos notifications and labeling requirements. The labeling requirements specify that asbestos-containing pipe insulation and various equipment insulation as well as rooms where asbestos is present be identified with an asbestos warning label. Section 380:45-15-2 requires a notice to employees when ACM are used in acoustical materials on ceilings and walls. This type of ACM is referred to as Surfacing Material. The asbestos warning labels are to be readily visible and include the following warning:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID BREATHING DUST
CANCER AND LUNG DISEASE HAZARD**

The EPA requires asbestos inspections in school buildings in grades Kindergarten through 12 as part of the Asbestos Hazard Emergency Response Act (AHERA), which is authorized in 40 CFR 763.6. If asbestos is present within School Facilities grades K-12 an Asbestos Management Plan is required by the Local Educational Authority (LEA) to be in place.

The AHERA sampling protocol addresses the systematic sample collection of all forms of ACM in addition to categorizing ACM materials as friable, that which can be rendered to a powder by hand pressure, Category I or II non-friable. The AHERA Inspection must also evaluate the condition and the potential for disturbance of ACM.

In addition to AHERA, the EPA also regulates commercial asbestos abatement activities. A NESHAP notification must be submitted to the ODEQ 10-business day prior to the initiation of any renovation and/or demolition activities where ACM are present in quantities that meet or exceed 160-square feet (ft²), 260-linear ft or 35-cubic ft (ft³). Instruction regarding NESHAP notification requirements and ODEQ compliance are provided on the DEQ website at: <http://www.deq.state.ok.us/odnew/asbestos/index.htm>

Land disposal requirements are also regulated by the EPA through State Landfill Permits. These efforts are now administered by the ODEQ Air Quality and Land Protection regulations. The ODEQ requires the advance filing of a NESHAP notification when any demolition or renovation activities take place. The NESHAP notification process tracks abated ACM to an ODEQ approved landfill on a project-by-project basis.

The ODOL Asbestos Division regulates asbestos abatement by implementing the rules that govern the abatement of friable ACM. Under the ODOL asbestos rule, OAC 380:50, only adequately licensed contractors can perform asbestos abatement, develop management plans and project designs. All abatement supervisors, abatement workers and asbestos inspectors must be licensed by the ODOL. The ODOL Rules are available on the ODOL web site at: <http://www.ok.gov/odol/>

LIMITATIONS OF SURVEY

This Asbestos Inspection was limited to certain aspects of the building construction. These limitations may have restricted or prevented the complete inspection of hidden or inaccessible building materials; therefore, inaccessible building materials were not inspected. Furthermore, locations presenting a hazard to bystanders or the Inspector were not assessed.

The findings resulting from these Inspections are valid as of the date this Asbestos Inspection was performed; however, changes in the condition of a structure may certainly occur with the passage of time whether due to natural processes or the works of man. Additionally, changes in applicable or appropriate standards may also occur possibly resulting from legislation or the expansion of knowledge.

Our Investigation was conducted using the degree of care and skill ordinarily exercised by professional consultants under similar circumstances practicing in this or similar localities. Professional services have been performed; results associated with this Asbestos Inspection were obtained and reported in accordance with generally accepted principles and practices. No other representations either expressed or implied are made, thus Marshall Environmental Management, Incorporated is not responsible for independent conclusions, opinions or recommendations made by others. It should also be noted that as-built plans were not available for review or use in the planning of this Asbestos Inspection.

APPENDIX

CHAIN OF CUSTODY
ANALYTICAL RESULTS
FLOOR PLAN DIAGRAM
DIGITAL PHOTOGRAPHS
LICENSURE

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0190-AB-122711		Client/Company		State of Oklahoma Department of Central Services		Client/Company		OK Dept. of Environmental Quality Land Protection Division	
Project Name		McAlester Armory Asbestos Inspection		Attention Title		Jason W. Doss Administrative Programs Officer II		Attention Title		Dustin Davidson Environmental Programs Specialist	
Project Address		319 E. Polk Ave. McAlester, OK 74502		Address		P.O. Box 53448 Oklahoma City, OK 73102		Address		P.O. Box 1677 Oklahoma City, OK 73102	
Site Contact		Mel Priddy		Phone Number		405-522-4804		Phone Number		405-702-5115	
Phone Number		918-421-9084		Fax Number		405-522-0051		Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address		Jason.Doss@dcgs.state.ok.us		E-mail Address		dustin.davidson@deg.ok.gov	
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analysis/Parameters	
0003	12/27/2011	PLM-1	White Ceiling Tile, Type 3	Building 1, Room - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-2	White Ceiling Tile, Type 3	Building 1, Room - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-3	White Ceiling Tile, Type 3	Building 1, Room - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-4	Brown 1x1 Ceiling Tile	Building 1, Room 13 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-5	Brown 1x1 Ceiling Tile	Building 1, Room 16 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-6	Brown 1x1 Ceiling Tile	Building 1, Room 17 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-7	Beige 12x12 Floor Tile	Building 1, Room 25 East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-8	Beige 12x12 Floor Tile	Building 1, Room 25 West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-9	Beige 12x12 Floor Tile	Building 1, Room 28	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-10	Yellow Mastic under 12x12 Floor Tile	Building 1, Room 25 East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
Collected By		<i>D. Smalley</i>		Date		12/27/2011		Relinquished By		N/A	
Received By				Date		15:00		Relinquished By			
Turn-Around-Time				Condition Upon Receipt		Acceptable		Method of Shipment		N/A	
<input checked="" type="checkbox"/>	Standard	5-7 Business Days		Sample Notes							
<input type="checkbox"/>	Rush	Next Day									
<input type="checkbox"/>	Immediate	Same Day									
Media				Matrix				Micro-Vacuum		1 of 14	
								Air		MV MP ST SW TL	
								Aqueous		Mold Plate	
								Bulk		Sport Trap	
								Sludge		Sabb	
								Soil		Tap-Life	
								Solid/Bulk			

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Project Address	319 E. Polk Ave. McAlester, OK 74502			Address	P.O. Box 53448 Oklahoma City, OK 73102			Address	P.O. Box 1677 Oklahoma City, OK 73102			
Site Contact	Mel Priddy			Phone Number	405-522-4804			Phone Number	405-702-5115			
Phone Number	918-421-9084			Fax Number	405-522-0051			Fax Number				
Mobile Number				Mobile Number				Mobile Number				
email				E-mail Address	jason.doss@oc.state.ok.us			E-mail Address	dustin.davidson@defg.ok.gov			
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analyses/Parameters		
0003	12/27/2011	PLM-11	Yellow Mastic under 12x12 Floor Tile	Building 1, Room 25 West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-12	Yellow Mastic under 12x12 Floor Tile	Building 1, Room 28	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-13	Beige & Teal Speckle 12x12 Floor Tile	Building 1, Room 7 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-14	Beige & Teal Speckle 12x12 Floor Tile	Building 1, Room 7 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-15	Beige & Teal Speckle 12x12 Floor Tile	Building 1, Room 8	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-16	Black Mastic under 12x12 Floor Tile	Building 1, Room 7 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-17	Black Mastic under 12x12 Floor Tile	Building 1, Room 7 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-18	Black Mastic under 12x12 Floor Tile	Building 1, Room 8	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-19	White Ceiling Tile, Type 1	Building 1, Room 1	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
0003	12/27/2011	PLM-20	White Ceiling Tile, Type 1	Building 1, Room 2	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis		
Collected By	<i>David Smalls</i>			Date	12/27/2011	Time	15:00	Relinquished By	N/A			
Received By				Date		Time		Relinquished By				
Turn-Around-Time				Condition Upon Receipt	Acceptable			Method of Shipment	N/A			
<input checked="" type="checkbox"/> Standard	5-7 Business Days			Sample Notes								
<input type="checkbox"/> Rush	Next Day											
<input type="checkbox"/> Immediate	Same Day											
Matrix:	Air	MV	MP	ST	SW	TL	Media	Micro-Vacuum	Mold Plate	Sport Trap	Swab	Tape-Lit
Page	2			of 14								

Marshall Environmental Management, Inc. Chain Of Custody

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Project Name	McAlester Armory Asbestos Inspection	Attention Title	Jason W. Doss Administrative Programs Officer II	Attention Title	Dustin Davidson Environmental Programs Specialist			Attention Title	Dustin Davidson Environmental Programs Specialist		
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102			Address	P.O. Box 1677 Oklahoma City, OK 73102		
Site Contact	Mel Priddy	Phone Number	405-522-4804	Phone Number	405-522-5115			Phone Number	405-522-5115		
Phone Number	918-421-9084	Fax Number	405-522-0051	Fax Number				Fax Number			
Mobile Number		Mobile Number		Mobile Number				Mobile Number			
email		E-mail Address	Jason.Doss@ocps.state.ok.us	E-mail Address	dustin.davidson@deq.ok.gov			E-mail Address	dustin.davidson@deq.ok.gov		
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analysis/Parameters	
0003	12/27/2011	PLM-21	White Ceiling Tile, Type 1	Building 1, Room 3	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-22	Cream 12x12 Floor Tile	Building 1, Room 3 - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-23	Cream 12x12 Floor Tile	Building 1, Room 2 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-24	Cream 12x12 Floor Tile	Building 1, Room 5 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-25	Yellow Mastic under 12x12 Floor Tile	Building 1, Room 3 - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-26	Yellow Mastic under 12x12 Floor Tile	Building 1, Room 2 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-27	Yellow Mastic under 12x12 Floor Tile	Building 1, Room 5 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-28	Brown Surfacing Material	Building 1, Exterior - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-29	Brown Surfacing Material	Building 1, Exterior - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-30	Brown Surfacing Material	Building 1, Exterior - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
Collected By	<i>Don Smalley</i>	Date	12/27/2011	Relinquished By	N/A	(print) (signature)	Date	N/A	Air	Matrix	
Received By		Time	15:00	Relinquished By		(print) (signature)	Time		Aqueous	MV	
Turn-Around-Time		Date		Relinquished By		(print) (signature)	Date		Bulk	MP	
Standard	5-7 Business Days	Time		Relinquished By		(print) (signature)	Time		Sludge	ST	
Rush	Next Day	Time		Relinquished By		(print) (signature)	Time		Soil	SW	
Immediate	Same Day	Time		Relinquished By		(print) (signature)	Time		Solid/Bulk	TL	
Condition Upon Receipt: Acceptable				Method of Shipment: N/A				Page 3 of 14			
Sample Notes											

Marshall Environmental Management, Inc. Chain Of Custody

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Site Contact		Mel Priddy		Phone Number		405-522-4804		Phone Number		405-702-5115	
Phone Number		918-421-9084		Fax Number		405-522-0051		Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address		Jason.Doss@state.ok.us		E-mail Address		dustin.davidson@deq.ok.gov	
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analysis/ Parameters	
0003	12/27/2011	PLM-31	Bed Mud	Building 1, Room 21-North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-32	Bed Mud	Building 1, Room 21-East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-33	Bed Mud	Building 1, Room 21-West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-34	Bed Tape	Building 1, Room 21-North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-35	Bed Tape	Building 1, Room 21-East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-36	Bed Tape	Building 1, Room 21-West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-37	Drywall	Building 1, Room 21-North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-38	Drywall	Building 1, Room 21-East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-39	Drywall	Building 1, Room 21-West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-40	Surfacing Material	Building 1, Room 27-North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
Collected By	Date	Time	Relinquished By	Date	Time	Signature		Volume	Media	Matrix	
	12/27/2011	15:00				N/A		N/A	Air	MV	MP
Received By	Date	Time	Relinquished By	Date	Time	Signature		Volume	Media	Matrix	
									Aqueous	Micro-Tecum	ST
Turn-Around-Time			Condition Upon Receipt			Method of Shipment			Page		
Standard			Acceptable			N/A			4 of 14		
Rush									Swab		
Immediate									Mold Plate		
									Spore Trap		
									Tape-Lift		

**Marshall Environmental Management, Inc.
Chain Of Custody**

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Project Identification	0190-AB-122711	Client/Company	State of Oklahoma Department of Central Services	Client/Company	OK Dept. of Environmental Quality Land Protection Division			
Project Name	McAlester Armory Asbestos Inspection	Attention Title	Jason W. Doss Administrative Programs Officer II	Attention Title	Dustin Davidson Environmental Programs Specialist			
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102			
Site Contact	Mel Priddy	Phone Number	405-522-4804	Phone Number	405-702-5115			
Phone Number	918-421-9084	Fax Number	405-522-0051	Fax Number				
Mobile Number		Mobile Number		Mobile Number				
email		E-mail Address	Jason.Doss@dcps.state.ok.us	E-mail Address	dustin.davidson@deq.ok.gov			

Laborsatory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analysis: Parameter:
0003	12/27/2011	PLM-51	Black Mastic	Building 1, Room 6- West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-52	Brown 12x12 Floor Tile	Building 1, Room 27- North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-53	Brown 12x12 Floor Tile	Building 1, Room 27- East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-54	Brown 12x12 Floor Tile	Building 1, Room 27- West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-55	Black Mastic under 12x12 Floor Tile	Building 1, Room 27- North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-56	Black Mastic under 12x12 Floor Tile	Building 1, Room 27- East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-57	Black Mastic under 12x12 Floor Tile	Building 1, Room 27- West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-58	White Ceiling Tile, Type 2	Building 1, Room 4	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-59	White Ceiling Tile, Type 2	Building 1, Room 5	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis
0003	12/27/2011	PLM-60	White Ceiling Tile, Type 2	Building 1, Room 6	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis

Collected By	<i>Don Snidell</i>	Date	12/27/2011	Relinquished By		Matrix	Micro-Vacuum	Media	MV	MP	ST	SW	TL
Received By		Date	15:00	Relinquished By		Matrix	Aqueous	Media	Air				
Turn-Around-Time		Date		Relinquished By		Matrix	Bulk	Media					
<input checked="" type="checkbox"/> Standard	5-7 Business Days	Date		Relinquished By		Matrix	Sludge	Media					
<input type="checkbox"/> Rush	Next Day	Date		Relinquished By		Matrix	Soil	Media					
<input type="checkbox"/> Immediate	Same Day	Date		Relinquished By		Matrix	Solid/Bulk	Media					
Condition Upon Receipt		Acceptable		Method of Shipment		N/A		Page		6	of		14
Sample Notes													

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO						
Project Identification		0190-AB-122711		Client/Company		State of Oklahoma Department of Central Services		Client/Company		OK Dept. of Environmental Quality Land Protection Division				
Project Name		McAlester Armory Asbestos Inspection		Attention		Jason W. Doss		Attention		Dustin Davidson				
Project Address		319 E. Polk Ave. McAlester, OK 74502		Title		Administrative Programs Officer II		Title		Environmental Programs Specialist				
Site Contact		Mel Priddy		Address		P.O. Box 53448 Oklahoma City, OK 73102		Address		P.O. Box 1677 Oklahoma City, OK 73102				
Phone Number		918-421-9084		Phone Number		405-522-4804		Phone Number		405-702-5115				
Mobile Number				Fax Number		405-522-0051		Fax Number						
email				Mobile Number				Mobile Number						
				E-mail Address		jason.doss@ocps.state.ok.us		E-mail Address		dustin.davidson@deq.ok.gov				
Labatory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/ Area	Unit	Analysis/ Parameters				
0003	12/27/2011	PLM-61	Bed Mud	Building 1, Room 14 Ceiling - Center	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-62	Bed Mud	Building 1, Room 14 Ceiling - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-63	Bed Mud	Building 1, Room 14 Ceiling - South	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-64	Drywall	Building 1, Room 14 Ceiling - Center	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-65	Drywall	Building 1, Room 14 Ceiling - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-66	Drywall	Building 1, Room 14 Ceiling - South	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-67	Bed Tape	Building 1, Room 14 Ceiling - Center	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-68	Bed Tape	Building 1, Room 14 Ceiling - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-69	Bed Tape	Building 1, Room 14 Ceiling - South	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-70	Beige Floor Tile	Building 1, Room 1, West Top Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
Collected By	<i>[Signature]</i>	Date	12/27/2011	Relinquished By	N/A	(print)	Date	N/A	Media	MV	MP	ST	SW	TL
Received By		Time	15:00	Relinquished		(signature)	Time		Air					
Turn-Around-Time		Date		By		(print)	Date		Liquidous					
Standard	5-7 Business Days	Date		By		(signature)	Time		Bulk					
Rush	Next Day	Condition Upon Receipt		Acceptable		Method of Shipment		N/A		Sludge				
Immediate	Same Day	Sample Notes								Soil				
										Solid/Bulk				
										Page	7	of	14	

**Marshall Environmental Management, Inc.
Chain Of Custody**

PROJECT INFORMATION				INVOICE TO				REPORT TO						
Project Identification	0190-AB-122711			Client/Company	State of Oklahoma Department of Central Services			Client/Company	OK Dept. of Environmental Quality Land Protection Division					
Project Name	McAlester Armory Asbestos Inspection			Attention Title	Jason W. Doss Administrative Programs Officer II			Attention Title	Dustin Davidson Environmental Programs Specialist					
Project Address	319 E. Polk Ave. McAlester, OK 74502			Address	P.O. Box 53448 Oklahoma City, OK 73102			Address	P.O. Box 1677 Oklahoma City, OK 73102					
Site Contact	Mel Priddy			Phone Number	405-522-4804			Phone Number	405-702-5115					
Phone Number	918-421-9084			Fax Number	405-522-0051			Fax Number						
Mobile Number				Mobile Number				Mobile Number						
email				E-mail Address	Jason.Doss@okstate.gov			E-mail Address	dustin.davidson@deq.ok.gov					
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analysis/Parameters				
0003	12/27/2011	PLM-71	Beige Floor Tile	Building 1, Room 1, East Top Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-72	Beige Floor Tile	Building 1, Room 1, Center Top Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-73	Black Mastic under Beige Floor Tile	Building 1, Room 1, West Top Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-74	Black Mastic under Beige Floor Tile	Building 1, Room 1, East Top Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-75	Black Mastic under Beige Floor Tile	Building 1, Room 1, Center Top Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-76	Green Floor Tile	Building 1, Room 1, West Bottom Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-77	Green Floor Tile	Building 1, Room 1, East Bottom Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-78	Green Floor Tile	Building 1, Room 1, Center Bottom Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-79	Yellow Mastic under Green Floor Tile	Building 1, Room 1, West Bottom Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
0003	12/27/2011	PLM-80	Yellow Mastic under Green Floor Tile	Building 1, Room 1, East Bottom Layer	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis				
Collected By	Date 12/27/2011 Time 15:00			Relinquished By				N/A						
Received By	Date			Relinquished By				Date						
Turn-Around-Time														
Standard	5-7 Business Days			Condition Upon Receipt/Acceptable				Method of Shipment N/A						
Rush	Next Day			Sample Notes										
Immediate	Same Day													
Collected By	Date			Relinquished By				Date						
Received By	Time			Relinquished By				Time						
Media														
Air			Aquous			Bulk			Sludge			Soil		
Solid/Bulk			Page			Micro-Vacuum			Mold Plate			Spore Trap		
Swab			Type-Lit			MV			MP			ST		
SW			TL			Media			Media			Media		
of			14			Page			8			of		

**Marshall Environmental Management, Inc.
Chain Of Custody**

PROJECT INFORMATION				INVOICE TO				REPORT TO								
Project Identification	0190-AB-122711	Client/Company	State of Oklahoma Department of Central Services	Client/Company	OK Dept. of Environmental Quality Land Protection Division	Project Name	McAlester Armory Asbestos Inspection	Attention Title	Jason W. Doss Administrative Programs Officer II	Attention Title	Dustin Davidson Environmental Programs Specialist	Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	
Site Contact	Mel Priddy	Phone Number	918-421-9084	Phone Number	405-522-4804	Mobile Number		Mobile Number	405-522-0051	Phone Number	P.O. Box 1677 Oklahoma City, OK 73102	Address		Phone Number	405-702-5115	
Mobile Number		Mobile Number		Mobile Number		Mobile Number		Mobile Number		Fax Number		Fax Number		Fax Number		
email		E-mail Address	Jason.Doss@dep.state.ok.us	E-mail Address		E-mail Address		E-mail Address		E-mail Address	dustin.davidson@deq.ok.gov	E-mail Address		E-mail Address		
Laboratory Identification		Field Identification		Sample Composition		Sampling Location		Sample Condition		Sample Matrix		Sample Media		Volume/Area		
0003	12/27/2011	PLM-81	Yellow Mastic under Green Floor Tile	Building 1, Room 1, Center Bottom Layer	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-82	Cream Speckle 12x12 Floor Tile	Building 1, Room 7 - North	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-83	Cream Speckle 12x12 Floor Tile	Building 1, Room 7 - East	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-84	Cream Speckle 12x12 Floor Tile	Building 1, Room 8	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-85	Black Mastic under 12x12 Floor Tile	Building 1, Room 7 - North	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-86	Black Mastic under 12x12 Floor Tile	Building 1, Room 7 - East	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-87	Black Mastic under 12x12 Floor Tile	Building 1, Room 8	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-88	White Ceiling Tile	Building 3, Room 2	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-89	White Ceiling Tile	Building 3, Room 3	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-90	White Ceiling Tile	Building 3, Room 4	Good	Bulk	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PLM-Bulk Analysis	
Collected By	Date		12/27/2011	Relinquished By	Date		N/A	Matrix	Date		Date		Date		Date	
Received By	Time		15:00	Relinquished By	Time			Air	Time		Time		Time		Time	
	Signature		<i>Don Smalley</i>		Signature			Aqueous	Signature		Signature		Signature		Signature	
Turn-Around-Time	Condition Upon Receipt		Acceptable	Method of Shipment		N/A		Sludge	Signature		Signature		Signature		Signature	
<input checked="" type="checkbox"/> Standard	Sample Notes			Sample Notes				Soil	Signature		Signature		Signature		Signature	
<input type="checkbox"/> Rush	5-7 Business Days			Sample Notes				Solid/Bulk	Signature		Signature		Signature		Signature	
<input type="checkbox"/> Immediate	Same Day			Sample Notes				Page	Signature		Signature		Signature		Signature	
	Same Day			Sample Notes				9	Signature		Signature		Signature		Signature	
	Same Day			Sample Notes				of	Signature		Signature		Signature		Signature	
	Same Day			Sample Notes				14	Signature		Signature		Signature		Signature	

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO										
Project Identification	0190-AB-122711			Client/Company	State of Oklahoma Department of Central Services			Client/Company	OK Dept. of Environmental Quality Land Protection Division									
Project Name	McAlester Armory Asbestos Inspection			Attention Title	Jason W. Doss Administrative Programs Officer II			Attention Title	Dustin Davidson Environmental Programs Specialist									
Project Address	319 E. Polk Ave. McAlester, OK 74502			Address	P.O. Box 53448 Oklahoma City, OK 73102			Address	P.O. Box 1677 Oklahoma City, OK 73102									
Site Contact	Mel Priddy			Phone Number	918-421-9084			Phone Number	405-702-5115									
Phone Number				Fax Number				Fax Number										
Mobile Number				Mobile Number				Mobile Number										
email				E-mail Address	Jason.Doss@dhs.state.ok.us			E-mail Address	dustin.davidson@deq.ok.gov									
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analyte/Parameters								
0003	12/27/2011	PLM-101	Beige Speckle Floor Tile	Building 4, Room 5 - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-102	Beige Speckle Floor Tile	Building 4, Room 5 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-103	Beige Speckle Floor Tile	Building 4, Room 5 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-104	Green Mastic under Floor Tile	Building 4, Room 5 - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-105	Green Mastic under Floor Tile	Building 4, Room 5 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-106	Green Mastic under Floor Tile	Building 4, Room 5 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-107	Transite Ceiling	Building 5	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-108	Black Mastic	Building 7, Room 6 - North	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-109	Black Mastic	Building 7, Room 6 - East	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
0003	12/27/2011	PLM-110	Black Mastic	Building 7, Room 6 - West	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis								
Collected By	[Signature]			Date	12/27/2011	Time	15:00	Relinquished By		N/A		Matrix						
Received By	[Signature]			Date		Time		Relinquished By				Air						
Turn-Around-Time				Condition Upon Receipt				Method of Shipment				Media						
<input checked="" type="checkbox"/> Standard	5-7 Business Days			Acceptable				N/A				Micro-Vacuum						
<input type="checkbox"/> Rush	Next Day											Mold Plate						
<input type="checkbox"/> Immediate	Same Day											Spot Trap						
											Page		11		of		14	

**Marshall Environmental Management, Inc.
Chain Of Custody**

PROJECT INFORMATION				INVOICE TO				REPORT TO																																																																																																																																
Project Identification	0190-AB-122711	Client/Company	State of Oklahoma Department of Central Services	Client/Company	OK Dept. of Environmental Quality Land Protection Division	Attention Title	Dustin Davidson Environmental Programs Specialist	Sample Matrix	Bulk	Sample Condition	Good	Volume/Area	N/A	Unit	N/A	Analysis/Parameters	PLM-Bulk Analysis																																																																																																																							
Project Name	McAlester Army Asbestos Inspection	Attention Title	Jason W. Doss Administrative Programs Officer II	Address	P.O. Box 53448 Oklahoma City, OK 73102	Phone Number	405-522-4804	Sample Matrix	Bulk	Sample Condition	Good	Volume/Area	N/A	Unit	N/A	Analysis/Parameters	PLM-Bulk Analysis																																																																																																																							
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Phone Number	405-522-4804	Fax Number	405-522-0051	Sample Matrix	Bulk	Sample Condition	Good	Volume/Area	N/A	Unit	N/A	Analysis/Parameters	PLM-Bulk Analysis																																																																																																																							
Site Contact	Mel Priddy	Phone Number	918-421-9084	Fax Number		Mobile Number		Sample Matrix	Bulk	Sample Condition	Good	Volume/Area	N/A	Unit	N/A	Analysis/Parameters	PLM-Bulk Analysis																																																																																																																							
Mobile Number		E-mail Address	Jason.Doss@dc.s.state.ok.us	E-mail Address	justin.davidson@derq.ok.gov																																																																																																																																			
Laboratory Identification	0003	Field Identification	PLM-121	Sample Composition	Upper Ceiling Tile, Type 3	Sampling Location	Building 7, Room 2 - East	Sample Matrix	Bulk	Sample Condition	Good	Volume/Area	N/A	Unit	N/A	Analysis/Parameters	PLM-Bulk Analysis																																																																																																																							
	0003		PLM-122		Upper Ceiling Tile, Type 3		Building 7, Room 2 - West		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-123		Brown 9x9 Floor Tile		Building 7, Room 1		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-124		Brown 9x9 Floor Tile		Building 7, Room 2		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-125		Brown 9x9 Floor Tile		Building 7, Room 3		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-126		Black Mastic under 9x9 Floor Tile		Building 7, Room 1		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-127		Black Mastic under 9x9 Floor Tile		Building 7, Room 2		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-128		Black Mastic under 9x9 Floor Tile		Building 7, Room 3		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-129		Bed Mud		Building 7, Room 1		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
	0003		PLM-130		Bed Mud		Building 7, Room 5		Bulk		Good		N/A				PLM-Bulk Analysis																																																																																																																							
Collected By	[Signature]		Date	12/27/2011	Relinquished By	N/A		Date		Time		Volume/Area	N/A	Unit	N/A	Analysis/Parameters																																																																																																																								
Received By	[Signature]		Date	12/27/2011	Relinquished By			Date		Time		Volume/Area		Unit		Analysis/Parameters																																																																																																																								
Turn-Around-Time	5-7 Business Days		Condition Upon Receipt	Acceptable	Method of Shipment	N/A																																																																																																																																		
Standard	Rush		Sample Notes																																																																																																																																					
Immediate	Some Day																																																																																																																																							
<table border="1"> <tr> <td>Matrix</td> <td>Air</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Micro-Vacuum</td> <td>MV</td> <td>MP</td> <td>ST</td> <td>SW</td> <td>TL</td> <td colspan="11"></td> </tr> <tr> <td>Mold Plate</td> <td colspan="16"></td> </tr> <tr> <td>Spore Trap</td> <td colspan="16"></td> </tr> <tr> <td>Swab</td> <td colspan="16"></td> </tr> <tr> <td>Type-Lite</td> <td colspan="16"></td> </tr> <tr> <td>Page</td> <td colspan="16">13 of 14</td> </tr> </table>																	Matrix	Air																	Micro-Vacuum	MV	MP	ST	SW	TL												Mold Plate																	Spore Trap																	Swab																	Type-Lite																	Page	13 of 14															
Matrix	Air																																																																																																																																							
Micro-Vacuum	MV	MP	ST	SW	TL																																																																																																																																			
Mold Plate																																																																																																																																								
Spore Trap																																																																																																																																								
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Type-Lite																																																																																																																																								
Page	13 of 14																																																																																																																																							

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0190-AB-122711		Client/Company		State of Oklahoma Department of Central Services		Client/Company		OK Dept. of Environmental Quality Land Protection Division	
Project Name		McAlester Armory Asbestos Inspection		Attention		Jason W. Doss		Attention		Dustin Davidson	
Project Address		319 E. Polk Ave. McAlester, OK 74502		Title		Administrative Programs Officer II		Title		Environmental Programs Specialist	
Site Contact		Mel Priddy		Address		P.O. Box 53448 Oklahoma City, OK 73102		Address		P.O. Box 1677 Oklahoma City, OK 73102	
Phone Number		918-421-9084		Phone Number		405-522-4804		Phone Number		405-702-5115	
Mobile Number				Fax Number		405-522-0051		Fax Number			
email				Mobile Number				Mobile Number			
				E-mail Address		Jason.Doss@dcsl.state.ok.us		E-mail Address		dustin.davidson@deq.ok.gov	
Laboratory Identification	Sample Date	Field Identification	Sample Composition	Sampling Location	Sample Condition	Sample Matrix	Sample Media	Volume/Arks	Unit	Analysis/Parameters	
0003	12/27/2011	PLM-131	Bed Mud	Building 7, Room 6	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-132	Bed Tape	Building 7, Room 1	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-133	Bed Tape	Building 7, Room 5	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-134	Bed Tape	Building 7, Room 6	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-135	Bed Mud	Building 7, Room 10	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-136	Bed Tape	Building 7, Room 10	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
0003	12/27/2011	PLM-137	Drywall	Building 7, Room 10	Good	Bulk	N/A	N/A	N/A	PLM-Bulk Analysis	
Collected By	<i>Jason Doss</i>		Date	12/27/2011	Time	15:00	Relinquished By	N/A		Volume	N/A
Received By			(signature)		Date		Time			Media	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Immediate	Turn-Around-Time		(signature)		Date		Time			Metric	
	5-7 Business Days		(signature)		Date		Time			MV	MP
	Next Day		(signature)		Date		Time			Micro-Vacuum	Mold Plate
Same Day		(signature)		Date		Time				Sport Trap	Swab
Sample Notes		Condition Upon Receipt: Acceptable		Method of Shipment: N/A						14 of 14	

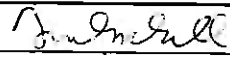
Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100
Oklahoma City, OK 73159
Phone: (405) 616-0401 Fax: (405) 681-6753
marshall@emvbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	McAlester Armory Asbestos Inspection	Attention	Jason W. Doss	Attention	Dustin Davidson
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Mel Priddy	Phone	405-522-4804	Phone	405-702-5115
Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@deq.state.ok.us

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-01	December 27, 2011	Ceiling Tile	White	Good		100% Fibrous Glass
		Building 1, Room Type 3				
		North	Miscellaneous			
0003-122711-PLM-02	December 27, 2011	Ceiling Tile	White	Good		100% Fibrous Glass
		Building 1, Room Type 3				
		East	Miscellaneous			
0003-122711-PLM-03	December 27, 2011	Ceiling Tile	White	Good		100% Fibrous Glass
		Building 1, Room Type 3				
		West	Miscellaneous			
0003-122711-PLM-04	December 27, 2011	1x1 Ceiling Tile	Brown	Good		100% Cellulose
		Building 1, Room 13 West				
			Miscellaneous			
0003-122711-PLM-05	December 27, 2011	1x1 Ceiling Tile	Brown	Good		100% Cellulose
		Building 1, Room 16 West				
			Miscellaneous			

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
AIHA PAT ID# 102334

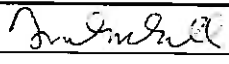
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dos.state.ok.us	email	dustin.davidson@depq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-06	December 27, 2011	1x1 Ceiling Tile	Brown	Good		100% Cellulose
		Building 1, Room 17 West	Miscellaneous			
0003-122711-PLM-07	December 27, 2011	12x12 Floor Tile	Beige	Good		100% Vinyl Aggregate
		Building 1, Room 25 East	Miscellaneous			
0003-122711-PLM-08	December 27, 2011	12x12 Floor Tile	Beige	Good		100% Vinyl Aggregate
		Building 1, Room 25 West	Miscellaneous			
0003-122711-PLM-09	December 27, 2011	12x12 Floor Tile	Beige	Good		100% Vinyl Aggregate
		Building 1, Room 28	Miscellaneous			
0003-122711-PLM-10	December 27, 2011	Yellow Mastic under 12x12 Floor Tile	Yellow	Good		100% Adhesive
		Building 1, Room 25 East	Miscellaneous			

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	Jamie Marshall, B.S., Industrial Hygiene Associate	DATE ANALYZED
	ANALYST SIGNATURE	

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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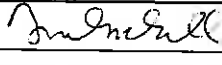
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dc.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-11	December 27, 2011	Yellow Mastic under 12x12 Floor Tile	Yellow	Good		100% Adhesive
		Building 1, Room 25 West		Miscellaneous		
0003-122711-PLM-12	December 27, 2011	Yellow Mastic under 12x12 Floor Tile	Yellow	Good		100% Adhesive
		Building 1, Room 28		Miscellaneous		
0003-122711-PLM-13	December 27, 2011	12x12 Floor Tile	Beige & Teal Speckle	Good		100% Vinyl Aggregate
		Building 1, Room 7 East		Miscellaneous		
0003-122711-PLM-14	December 27, 2011	12x12 Floor Tile	Beige & Teal Speckle	Good		100% Vinyl Aggregate
		Building 1, Room 7 West		Miscellaneous		
0003-122711-PLM-15	December 27, 2011	12x12 Floor Tile	Beige & Teal Speckle	Good		100% Vinyl Aggregate
		Building 1, Room 8		Miscellaneous		

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

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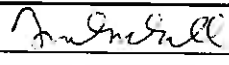
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Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED		
			COLOR	CONDITION			
0003-122711-PLM-16	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	97% Tar	
		Building 1, Room 7 East					
			Miscellaneous				
0003-122711-PLM-17	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	97% Tar	
		Building 1, Room 7 West					
			Miscellaneous				
0003-122711-PLM-18	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	97% Tar	
		Building 1, Room 8					
			Miscellaneous				
0003-122711-PLM-19	December 27, 2011	Ceiling Tile, Type 1	White	Good		100% Styrofoam	
		Building 1, Room 1					
			Miscellaneous				
0003-122711-PLM-20	December 27, 2011	Ceiling Tile, Type 1	White	Good		100% Styrofoam	
		Building 1, Room 2					
			Miscellaneous				

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	Jamie Marshall, B.S., Industrial Hygiene Associate	DATE ANALYZED
	ANALYST SIGNATURE	

Polarized Light Microscopy Asbestos Analysis Test Method:
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AIHA PAT ID# 102334

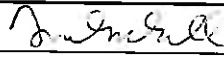
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marshenv@marshall.net

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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dos.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-21	December 27, 2011	Ceiling Tile, Type 1	White	Good		100% Styrofoam
		Building 1, Room 3	Miscellaneous			
0003-122711-PLM-22	December 27, 2011	12x12 Floor Tile	Cream	Good		100% Vinyl Aggregate
		Building 1, Room 3 North	Miscellaneous			
0003-122711-PLM-23	December 27, 2011	12x12 Floor Tile	Cream	Good		100% Vinyl Aggregate
		Building 1, Room 2 East	Miscellaneous			
0003-122711-PLM-24	December 27, 2011	12x12 Floor Tile	Cream	Good		100% Vinyl Aggregate
		Building 1, Room 5 West	Miscellaneous			
0003-122711-PLM-25	December 27, 2011	Mastic under 12x12 Floor Tile	Yellow	Good		100% Adhesive
		Building 1, Room 3 North	Miscellaneous			

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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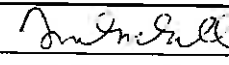
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marshenv@swball.net

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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dos.state.ok.us	email	dustin.davidson@den.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-26	December 27, 2011	Mastic under 12x12 Floor Tile	Yellow	Good		100% Adhesive
		Building 1, Room 2 East	Miscellaneous			
0003-122711-PLM-27	December 27, 2011	Mastic under 12x12 Floor Tile	Yellow	Good		100% Adhesive
		Building 1, Room 5 West	Miscellaneous			
0003-122711-PLM-28	December 27, 2011	Surfacing Material	Brown	Good		60% Perlite
		Building 1, Exterior North	Surfacing			40% Calcareous Material
0003-122711-PLM-29	December 27, 2011	Surfacing Material	Brown	Good		60% Perlite
		Building 1, Exterior East	Surfacing			40% Calcareous Material
0003-122711-PLM-30	December 27, 2011	Surfacing Material	Brown	Good		60% Perlite
		Building 1, Exterior West	Surfacing			40% Calcareous Material

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	January 15, 2012 DATE ANALYZED
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Polarized Light Microscopy Asbestos Analysis Test Method:
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Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@deq.state.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-31	December 27, 2011	Bed Mud	Grey	Good		100% Calcareous Material
		Building 1, Room 21 North		Surfacing		
0003-122711-PLM-32	December 27, 2011	Bed Mud	Grey	Good		100% Calcareous Material
		Building 1, Room 21 East		Surfacing		
0003-122711-PLM-33	December 27, 2011	Bed Mud	Grey	Good		100% Calcareous Material
		Building 1, Room 21 West		Surfacing		
0003-122711-PLM-34	December 27, 2011	Bed Tape	White	Good		100% Cellulose
		Building 1, Room 21 North		Miscellaneous		
0003-122711-PLM-35	December 27, 2011	Bed Tape	White	Good		100% Cellulose
		Building 1, Room 21 East		Miscellaneous		

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	January 15, 2012 DATE ANALYZED
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Cell		Other		Other	
email		email	Jason.Doss@dos.state.ok.us	email	dustin.davidson@denq.deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	White		
0003-122711-PLM-36	December 27, 2011	Bed Tape	CONDITION	Good		100% Cellulose
		Building 1, Room 21 West	TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-37	December 27, 2011	Drywall	COLOR	White		3% Cellulose
		Building 1, Room 21 North	CONDITION	Good		3% Fibrous Glass
			TYPE	Miscellaneous		94% Calcareous Material
			NOTE			
0003-122711-PLM-38	December 27, 2011	Drywall	COLOR	White		3% Cellulose
		Building 1, Room 21 East	CONDITION	Good		3% Fibrous Glass
			TYPE	Miscellaneous		94% Calcareous Material
			NOTE			
0003-122711-PLM-39	December 27, 2011	Drywall	COLOR	White		3% Cellulose
		Building 1, Room 21 West	CONDITION	Good		3% Fibrous Glass
			TYPE	Miscellaneous		94% Calcareous Material
			NOTE			
0003-122711-PLM-40	December 27, 2011	Surfacing Material	COLOR	Cream		30% Perlite
		Building 1, Room 27 North	CONDITION	Good		70% Calcareous Material
			TYPE	Surfacing		
			NOTE			

Jamie Marshall		January 15, 2012
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Cell		Other		Other	
email		email	jason_doss@des.state.ok.us	email	dustin.davidson@denr.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
			COLOR	CONDITION			
0003-122711-PLM-41	December 27, 2011	Surfacing Material	COLOR	Cream		30% Perlite	
		Building 1, Room 27 East	CONDITION	Good		70% Calcareous Material	
			TYPE	Surfacing			
			NOTE				
0003-122711-PLM-42	December 27, 2011	Surfacing Material	COLOR	Cream		30% Perlite	
		Building 1, Room 27 West	CONDITION	Good		70% Calcareous Material	
			TYPE	Surfacing			
			NOTE				
0003-122711-PLM-43	December 27, 2011	Cove Base	COLOR	Brown		100% Rubber	
		Building 1, Room 27 North	CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				
0003-122711-PLM-44	December 27, 2011	Cove Base	COLOR	Brown		100% Rubber	
		Building 1, Room 27 East	CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				
0003-122711-PLM-45	December 27, 2011	Cove Base	COLOR	Brown		100% Rubber	
		Building 1, Room 27 West	CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	January 15, 2012 DATE ANALYZED
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Polarized Light Microscopy Asbestos Analysis Test Method:
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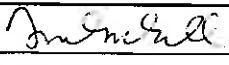
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Contact	Mel Priddy	Phone	405-522-4804	Phone	405-702-5115
Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dcsc.state.ok.us	email	dustin.davidson@denr.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-46	December 27, 2011	Cove Base Mastic	Brown	Good		100% Adhesive
		Building 1, Room 27 North	Miscellaneous			
0003-122711-PLM-47	December 27, 2011	Cove Base Mastic	Brown	Good		100% Adhesive
		Building 1, Room 27 East	Miscellaneous			
0003-122711-PLM-48	December 27, 2011	Cove Base Mastic	Brown	Good		100% Adhesive
		Building 1, Room 27 West	Miscellaneous			
0003-122711-PLM-49	December 27, 2011	Mastic	Black	Good	8% Chrysotile	92% Tar
		Building 1, Room 6 South	Miscellaneous			
0003-122711-PLM-50	December 27, 2011	Mastic	Black	Good	8% Chrysotile	92% Tar
		Building 1, Room 6 East	Miscellaneous			

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	Jamie Marshall, B.S., Industrial Hygiene Associate	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
AIHA PAT ID# 102334

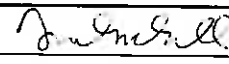
Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100
Oklahoma City, OK 73159
Phone: (405) 616-0401 Fax: (405) 681-6753
marsh@marshallenv.com

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	McAlester Armory Asbestos Inspection	Attention	Jason W. Doss	Attention	Dustin Davidson
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		8% ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-51	December 27, 2011	Mastic	Black	Good	8% Chrysotile	92% Tar
		Building 1, Room 6 West	Miscellaneous			
LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-52	December 27, 2011	12x12 Floor Tile	Brown	Good		2% Cellulose
		Building 1, Room 27 North	Miscellaneous			98% Vinyl Aggregate
LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-53	December 27, 2011	12x12 Floor Tile	Brown	Good		2% Cellulose
		Building 1, Room 27 East	Miscellaneous			98% Vinyl Aggregate
LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-54	December 27, 2011	12x12 Floor Tile	Brown	Good		2% Cellulose
		Building 1, Room 27 West	Miscellaneous			98% Vinyl Aggregate
LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-55	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	2% Cellulose
		Building 1, Room 27 North	Miscellaneous			95% Tar

Jamie Marshall		
	Jamie Marshall, B.S., Industrial Hygiene Associate	January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

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40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
AIHA PAT ID# 102334


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marshall@embi.net

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Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	McAlester Armory Asbestos Inspection	Attention	Jason W. Doss	Attention	Dustin Davidson
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dcs.state.ok.us	email	dustin.davidson@deg.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED		
			COLOR	CONDITION			
0003-122711-PLM-56	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	2% Cellulose	
		Building 1, Room 27 East				95% Tar	
			Miscellaneous				
0003-122711-PLM-57	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	2% Cellulose	
		Building 1, Room 27 West				95% Tar	
			Miscellaneous				
0003-122711-PLM-58	December 27, 2011	Ceiling Tile, Type 2	White	Good		30% Cellulose	
		Building 1, Room 4				20% Fibrous Glass	
			Miscellaneous			20% Perlite	
						30% Calcareous Material	
0003-122711-PLM-59	December 27, 2011	Ceiling Tile, Type 2	White	Good		30% Cellulose	
		Building 1, Room 5				20% Fibrous Glass	
			Miscellaneous			20% Perlite	
						30% Calcareous Material	
0003-122711-PLM-60	December 27, 2011	Ceiling Tile, Type 2	White	Good		30% Cellulose	
		Building 1, Room 6				20% Fibrous Glass	
			Miscellaneous			20% Perlite	
						30% Calcareous Material	

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@ocs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		2% ASBESTOS DETECTED	
			COLOR	CONDITION	Chrysotile	Calcareous Material
0003-122711-PLM-61	December 27, 2011	Bed Mud	Grey	Good	2%	98%
		Building 1, Room 14 Ceiling Center		Surfacing		
0003-122711-PLM-62	December 27, 2011	Bed Mud	Grey	Good	2%	98%
		Building 1, Room 14 Ceiling West		Surfacing		
0003-122711-PLM-63	December 27, 2011	Bed Mud	Grey	Good	2%	98%
		Building 1, Room 14 Ceiling South		Surfacing		
0003-122711-PLM-64	December 27, 2011	Drywall	White	Good		4%
		Building 1, Room 14 Ceiling Center		Miscellaneous		96%
0003-122711-PLM-65	December 27, 2011	Drywall	White	Good		4%
		Building 1, Room 14 Ceiling West		Miscellaneous		96%

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	January 15, 2012 DATE ANALYZED
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Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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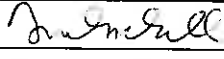
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ma:hbenv.g@bellsouth.net

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Cell		Other		Other	
email		email	Jason_Doss@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
			COLOR	CONDITION			
0003-122711-PLM-66	December 27, 2011	Drywall	White	Good		4% Cellulose	
		Building 1, Room 14 Ceiling South				96% Calcareous Material	
			Miscellaneous				
0003-122711-PLM-67	December 27, 2011	Bed Tape	Cream	Good		100% Calcareous Material	
		Building 1, Room 14 Ceiling Center					
			Miscellaneous				
0003-122711-PLM-68	December 27, 2011	Bed Tape	Cream	Good		100% Calcareous Material	
		Building 1, Room 14 Ceiling West					
			Miscellaneous				
0003-122711-PLM-69	December 27, 2011	Bed Tape	Cream	Good		100% Calcareous Material	
		Building 1, Room 14 Ceiling South					
			Miscellaneous				
0003-122711-PLM-70	December 27, 2011	Floor Tile, Bottom Layer	Beige	Good		100% Vinyl Aggregate	
		Building 1, Room 1 West					
			Miscellaneous				

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
AIHA PAT ID# 102334

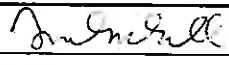
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	jason.doss@dcsc.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
			COLOR	CONDITION			
0003-122711-PLM-71	December 27, 2011	Floor Tile, Bottom Layer	Beige	Good	100%	Vinyl Aggregate	
		Building 1, Room 1 East					
			Miscellaneous				
0003-122711-PLM-72	December 27, 2011	Floor Tile, Bottom Layer	Beige	Good	100%	Vinyl Aggregate	
		Building 1, Room 1 Center					
			Miscellaneous				
0003-122711-PLM-73	December 27, 2011	Mastic under Floor Tile, Top Layer	Yellow	Good	100%	Adhesive	
		Building 1, Room 1 West					
			Miscellaneous				
0003-122711-PLM-74	December 27, 2011	Mastic under Floor Tile, Top Layer	Yellow	Good	100%	Adhesive	
		Building 1, Room 1 East					
			Miscellaneous				
0003-122711-PLM-75	December 27, 2011	Mastic under Floor Tile, Top Layer	Yellow	Good	100%	Adhesive	
		Building 1, Room 1 Center					
			Miscellaneous				

Jamie Marshall		January 15, 2012
	Jamie Marshall, B.S., Industrial Hygiene Associate	
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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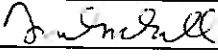
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 Phone: (405) 616-0401 Fax: (405) 681-6753
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Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@denr.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED	
			COLOR	Green	3% Chrysotile	97% Vinyl Aggregate
0003-122711-PLM-76	December 27, 2011	Floor Tile, Top Layer	COLOR	Green	3% Chrysotile	97% Vinyl Aggregate
		Building 1, Room 1 West	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-77	December 27, 2011	Floor Tile, Top Layer	COLOR	Green	3% Chrysotile	97% Vinyl Aggregate
		Building 1, Room 1 East	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-78	December 27, 2011	Floor Tile, Top Layer	COLOR	Green	3% Chrysotile	97% Vinyl Aggregate
		Building 1, Room 1 Center	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-79	December 27, 2011	Mastic under Floor Tile, Bottom Layer	COLOR	Black	3% Chrysotile	97% Tar
		Building 1, Room 1 West	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-80	December 27, 2011	Mastic under Floor Tile, Bottom Layer	COLOR	Black	3% Chrysotile	97% Tar
		Building 1, Room 1 East	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			

Jamie Marshall		January 15, 2012
	Jamie Marshall, B.S., Industrial Hygiene Associate	
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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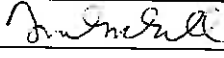
Oklahoma City, OK 73159

Phone: (405) 616-0401 Fax: (405) 681-6753

mailto:jen@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dcps.state.ok.us	email	dustin.davidson@den.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-81	December 27, 2011	Mastic under Floor Tile, Bottom Layer	Black	Good	3% Chrysotile	97% Tar
		Building 1, Room 1 Center	Miscellaneous			
0003-122711-PLM-82	December 27, 2011	12x12 Floor Tile	Cream Speckle	Good	3% Chrysotile	97% Vinyl Aggregate
		Building 1, Room 7 North	Miscellaneous			
0003-122711-PLM-83	December 27, 2011	12x12 Floor Tile	Cream Speckle	Good	3% Chrysotile	97% Vinyl Aggregate
		Building 1, Room 7 East	Miscellaneous			
0003-122711-PLM-84	December 27, 2011	12x12 Floor Tile	Cream Speckle	Good	3% Chrysotile	97% Vinyl Aggregate
		Building 1, Room 8	Miscellaneous			
0003-122711-PLM-85	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	97% Tar
		Building 1, Room 7 North	Miscellaneous			

Jamie Marshall		January 15, 2012
	Jamie Marshall, B.S., Industrial Hygiene Associate	
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

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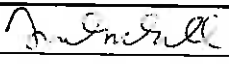
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email		email	Jason.Doss@dcsc.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED		
			COLOR	CONDITION			
0003-122711-PLM-86	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	97% Tar	
		Building 1, Room 7 East					
			Miscellaneous				
0003-122711-PLM-87	December 27, 2011	Mastic under 12x12 Floor Tile	Black	Good	3% Chrysotile	97% Tar	
		Building 1, Room 8					
			Miscellaneous				
0003-122711-PLM-88	December 27, 2011	Ceiling Tile	White	Good		100% Foam	
		Building 3, Room 2					
			Miscellaneous				
0003-122711-PLM-89	December 27, 2011	Ceiling Tile	White	Good		100% Foam	
		Building 3, Room 3					
			Miscellaneous				
0003-122711-PLM-90	December 27, 2011	Ceiling Tile	White	Good		100% Foam	
		Building 3, Room 4					
			Miscellaneous				

Jamie Marshall		January 15, 2012
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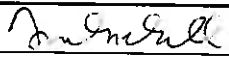
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dc.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION	4% Cellulose	96% Calcareous Material
0003-122711-PLM-91	December 27, 2011	Drywall	White	Good		
		Building 3, Room 5 Bathroom North		Miscellaneous		
0003-122711-PLM-92	December 27, 2011	Drywall	White	Good		
		Building 3, Room 5 Bathroom East		Miscellaneous		
0003-122711-PLM-93	December 27, 2011	Drywall	White	Good		
		Building 3, Room 5 Bathroom West		Miscellaneous		
0003-122711-PLM-94	December 27, 2011	Bed Tape	Cream	Good		
		Building 3, Room 5 Bathroom North		Miscellaneous		
0003-122711-PLM-95	December 27, 2011	Bed Tape	Cream	Good		
		Building 3, Room 5 Bathroom East		Miscellaneous		

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	January 15, 2012 DATE ANALYZED
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Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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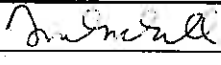
Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100
Oklahoma City, OK 73159
Phone: (405) 616-0401 Fax: (405) 681-6753
marcbon@sbhcell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	McAlester Armory Asbestos Inspection	Attention	Jason W. Doss	Attention	Dustin Davidson
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Mel Priddy	Phone	405-522-4804	Phone	405-702-5115
Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dcs.state.ok.us	email	dustin.davidson@den.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-96	December 27, 2011	Bed Tape	COLOR	Cream		100% Cellulose
		Building 3, Room 5 Bathroom West	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-97	December 27, 2011	Bed Mud	COLOR	Grey		1% Cellulose
		Building 3, Room 5 Bathroom North	CONDITION	Good		99% Calcareous Material
			TYPE	Surfacing		
0003-122711-PLM-98	December 27, 2011	Bed Mud	COLOR	Grey		1% Cellulose
		Building 3, Room 5 Bathroom East	CONDITION	Good		99% Calcareous Material
			TYPE	Surfacing		
0003-122711-PLM-99	December 27, 2011	Bed Mud	COLOR	Grey		1% Cellulose
		Building 3, Room 5 Bathroom West	CONDITION	Good		99% Calcareous Material
			TYPE	Surfacing		
0003-122711-PLM-100	December 27, 2011	Transite Siding/ Soffit	COLOR	Grey	40% Chrysotile	60% Cementous Material
		Building 4 Exterior	CONDITION	Good		
			TYPE	Miscellaneous		

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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marsh@emmiwebll.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-101	December 27, 2011	Floor Tile	Beige Speckle	Good		100% Vinyl Aggregate
		Building 4, Room 5 North	Miscellaneous			
0003-122711-PLM-102	December 27, 2011	Floor Tile	Beige Speckle	Good		100% Vinyl Aggregate
		Building 4, Room 5 East	Miscellaneous			
0003-122711-PLM-103	December 27, 2011	Floor Tile	Beige Speckle	Good		100% Vinyl Aggregate
		Building 4, Room 5 West	Miscellaneous			
0003-122711-PLM-104	December 27, 2011	Mastic under Floor Tile	Green	Good		100% Tar
		Building 4, Room 5 North	Miscellaneous			
0003-122711-PLM-105	December 27, 2011	Mastic under Floor Tile	Green	Good		100% Tar
		Building 4, Room 5 North	Miscellaneous			

Jamie Marshall		January 15, 2012
	Jamie Marshall, B.S., Industrial Hygiene Associate	
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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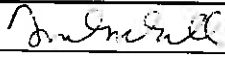
Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

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Oklahoma City, OK 73159
Phone: (405) 616-0401 Fax: (405) 681-6753
marsh@mcshabell.net

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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason_Doss@des.state.ok.us	email	dustin.davidson@denq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-106	December 27, 2011	Mastic under Floor Tile	Green	Good		100% Tar
		Building 4, Room 5 North	Miscellaneous			
0003-122711-PLM-107	December 27, 2011	Transite Ceiling	Grey	Good	40% Chrysotile	60% Cementous Material
		Building 5	Miscellaneous			
0003-122711-PLM-108	December 27, 2011	Mastic	Black	Good		100% Tar
		Building 7, Room 6 North	Miscellaneous			
0003-122711-PLM-109	December 27, 2011	Mastic	Black	Good		100% Tar
		Building 7, Room 6 East	Miscellaneous			
0003-122711-PLM-110	December 27, 2011	Mastic	Black	Good		100% Tar
		Building 7, Room 6 West	Miscellaneous			

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	January 15, 2012 DATE ANALYZED
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Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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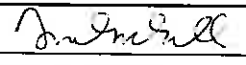
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marshenv@marshall.net

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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-111	December 27, 2011	Drywall	White	Good		100% Calcareous Material
		Building 7, Room 1 Ceiling	Miscellaneous			
0003-122711-PLM-112	December 27, 2011	Drywall	White	Good		100% Calcareous Material
		Building 7, Room 5 Ceiling	Miscellaneous			
0003-122711-PLM-113	December 27, 2011	Drywall	White	Good		100% Calcareous Material
		Building 7, Room 6 Ceiling	Miscellaneous			
0003-122711-PLM-114	December 27, 2011	Ceiling Tile	White	Good		100% Foam
		Building 7, Room 3	Miscellaneous			
0003-122711-PLM-115	December 27, 2011	Ceiling Tile	White	Good		100% Foam
		Building 7, Room 4	Miscellaneous			

Jamie Marshall		
	Jamie Marshall, B.S., Industrial Hygiene Associate	January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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Bulk Asbestos Analysis

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1601 Southwest 890th Street, Suite A-100


Oklahoma City, OK 73159

Phone: (405) 616-0401 Fax: (405) 681-6753

marsh@emabell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
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Contact	Mel Priddy	Phone	405-522-4804	Phone	405-702-5115
Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@ok.gov	email	dustin.davidson@den.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-116	December 27, 2011	Ceiling Tile	White	Good		100% Foam
		Building 7, Room 12	Miscellaneous			
0003-122711-PLM-117	December 27, 2011	Ceiling Tile, Type 2	White	Good		20% Cellulose
		Building 7, Room 2	Miscellaneous			20% Fibrous Glass
						15% Perlite
						45% Calcareous Material
0003-122711-PLM-118	December 27, 2011	Ceiling Tile, Type 2	White	Good		20% Cellulose
		Building 7, Room 7	Miscellaneous			20% Fibrous Glass
						15% Perlite
						45% Calcareous Material
0003-122711-PLM-119	December 27, 2011	Ceiling Tile, Type 2	White	Good		20% Cellulose
		Building 7, Room 8	Miscellaneous			20% Fibrous Glass
						15% Perlite
						45% Calcareous Material
0003-122711-PLM-120	December 27, 2011	Upper Ceiling Tile, Type 3	Cream	Good		20% Cellulose
		Building 7, Room 2 North	Miscellaneous			40% Fibrous Glass
						40% Calcareous Material

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	Jamie Marshall, B.S., Industrial Hygiene Associate	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.		Lab Accreditation: AIHA PAT ID# 102334
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Phone: (405) 616-0401 Fax: (405) 681-6753

ma-shen@gsvbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
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Project	McAlester Armory Asbestos Inspection	Attention	Jason W. Doss	Attention	Dustin Davidson
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Mel Priddy	Phone	405-522-4804	Phone	405-702-5115
Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@dcps.state.ok.us	email	dustin.davidson@deq.state.ok.us

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-121	December 27, 2011	Upper Ceiling Tile, Type 3	COLOR	Cream		20% Cellulose
		Building 7, Room 2 East	CONDITION	Good		40% Fibrous Glass
			TYPE	Miscellaneous		40% Calcareous Material
			NOTE			
0003-122711-PLM-122	December 27, 2011	Upper Ceiling Tile, Type 3	COLOR	Cream		20% Cellulose
		Building 7, Room 2 West	CONDITION	Good		40% Fibrous Glass
			TYPE	Miscellaneous		40% Calcareous Material
			NOTE			
0003-122711-PLM-123	December 27, 2011	9x9 Floor Tile	COLOR	Brown	3% Chrysotile	97% Vinyl Aggregate
		Building 7, Room 1	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-124	December 27, 2011	9x9 Floor Tile	COLOR	Brown	3% Chrysotile	97% Vinyl Aggregate
		Building 7, Room 2	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			
0003-122711-PLM-125	December 27, 2011	9x9 Floor Tile	COLOR	Brown	3% Chrysotile	97% Vinyl Aggregate
		Building 7, Room 3	CONDITION	Good		
			TYPE	Miscellaneous		
			NOTE			

Jamie Marshall		January 15, 2012
	Jamie Marshall, B.S., Industrial Hygiene Associate	
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.		Lab Accreditation: AIHA PAT ID# 102334
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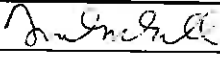
Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100
 Oklahoma City, OK 73159
 Phone: (405) 616-0401 Fax: (405) 681-6753
 marshall@marshall.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	McAlester Armory Asbestos Inspection	Attention	Jason W. Doss	Attention	Dustin Davidson
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Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	Jason.Doss@des.state.ok.us	email	dustin.davidson@den.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-126	December 27, 2011	Mastic under 9x9 Floor Tile	Black	Good		100% Tar
		Building 7, Room 1				
				Miscellaneous		
0003-122711-PLM-127	December 27, 2011	Mastic under 9x9 Floor Tile	Black	Good		100% Tar
		Building 7, Room 2				
				Miscellaneous		
0003-122711-PLM-128	December 27, 2011	Mastic under 9x9 Floor Tile	Black	Good		100% Tar
		Building 7, Room 3				
				Miscellaneous		
0003-122711-PLM-129	December 27, 2011	Bed Mud	White	Good	2% Chrysotile	98% Calcareous Material
		Building 7, Room 1				
				Surfacing		
0003-122711-PLM-130	December 27, 2011	Bed Mud	White	Good	2% Chrysotile	98% Calcareous Material
		Building 7, Room 5				
				Surfacing		

Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	Jamie Marshall, B.S., Industrial Hygiene Associate	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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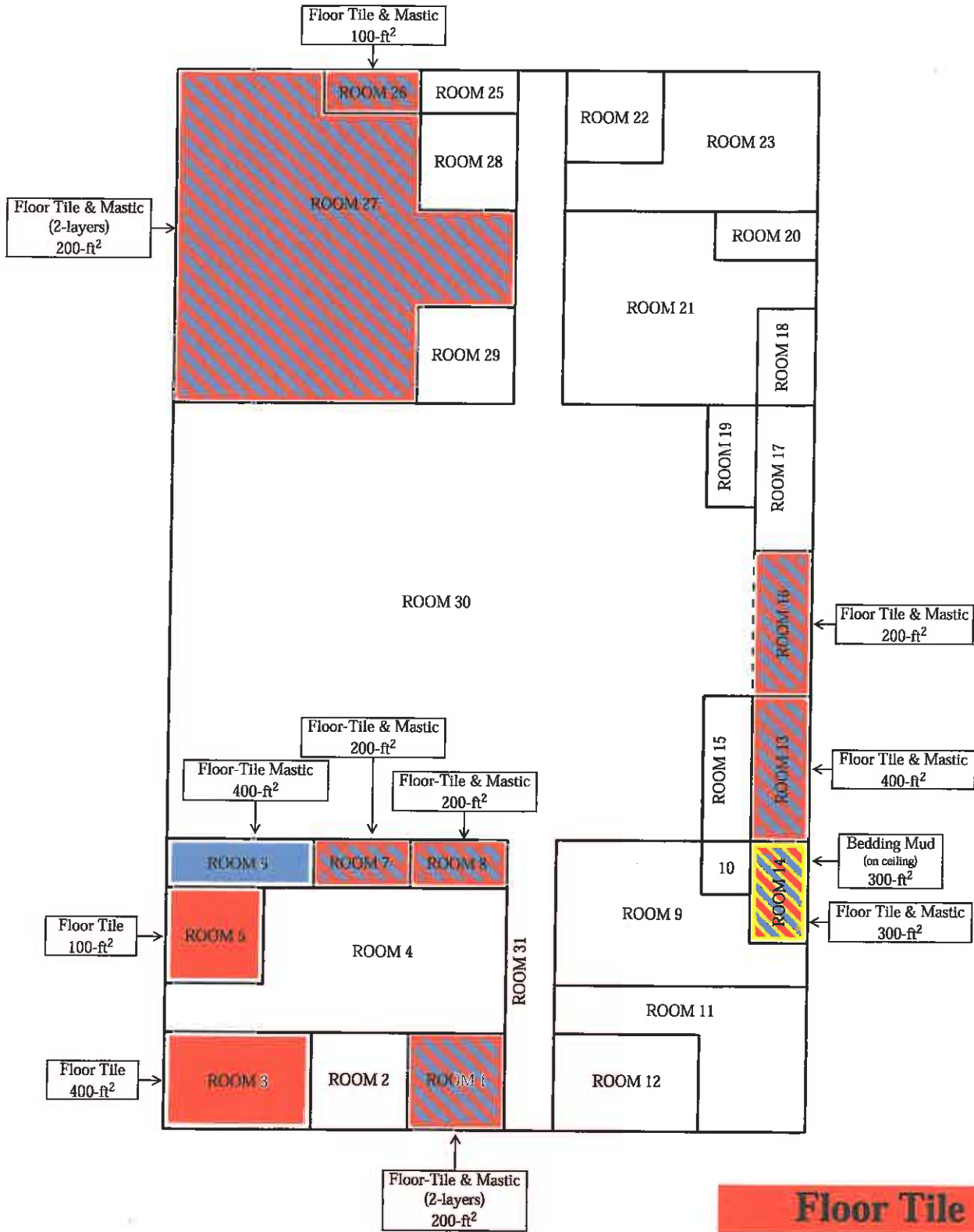
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Cell		Other		Other	
email		email	Jason.Doss@dos.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		2% ASBESTOS DETECTED		
			COLOR	White	2%	Chrysotile	98%
0003-122711-PLM-131	December 27, 2011	Bed Mud	COLOR	White			
		Building 7, Room 6	CONDITION	Good			
			TYPE	Surfacing			
			NOTE				
0003-122711-PLM-132	December 27, 2011	Bed Tape	COLOR	Cream			100% Cellulose
		Building 7, Room 1	CONDITION	Good			
			TYPE	Miscellaneous			
0003-122711-PLM-133	December 27, 2011	Bed Tape	COLOR	Cream			100% Cellulose
		Building 7, Room 5	CONDITION	Good			
			TYPE	Miscellaneous			
0003-122711-PLM-134	December 27, 2011	Bed Tape	COLOR	Cream			100% Cellulose
		Building 7, Room 6	CONDITION	Good			
			TYPE	Miscellaneous			
0003-122711-PLM-135	December 27, 2011	Bed Mud	COLOR	White			100% Calcareous Material
		Building 7, Room 10	CONDITION	Good			
			TYPE	Surfacing			

Jamie Marshall		
	Jamie Marshall, B.S., Industrial Hygiene Associate	January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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McAlester Armory Asbestos-Containing Materials



Floor Tile
Floor-Tile Mastic
Bedding Mud

Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

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 marshenv@marshall.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
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Cell		Other		Other	
email		email	jason_doss@ces.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0003-122711-PLM-136	December 27, 2011	Bed Tape	Cream	Good		100% Fibrous Glass
		Building 7, Room 10				
			Miscellaneous			
0003-122711-PLM-137	December 27, 2011	Drywall	White	Good		2% Cellulose
		Building 7, Room 10				98% Calcereous Material
			Miscellaneous			

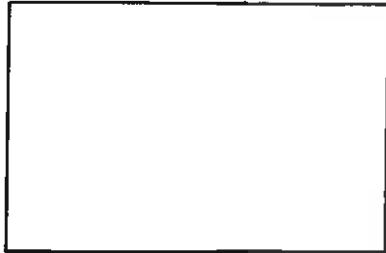
Jamie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

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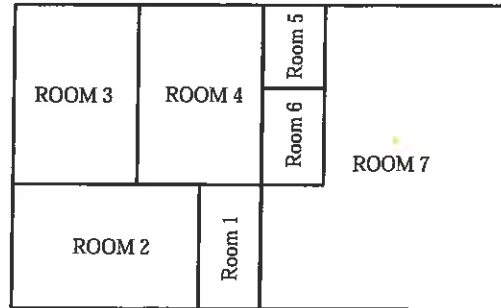
McAlester Armory Auxiliary Buildings

Asbestos-Containing Materials

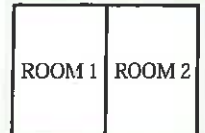
Building 2



Building 3

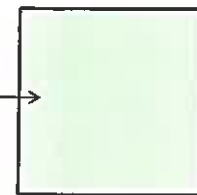


Building 4



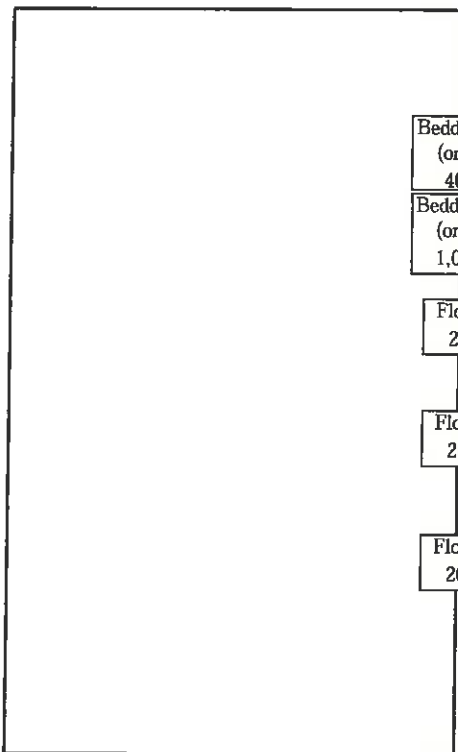
Transite
(on exterior soffit & siding)
1,100-ft²

Building 5



Transite
(on ceiling)
150-ft²

**Building 1
(Main Armory)**

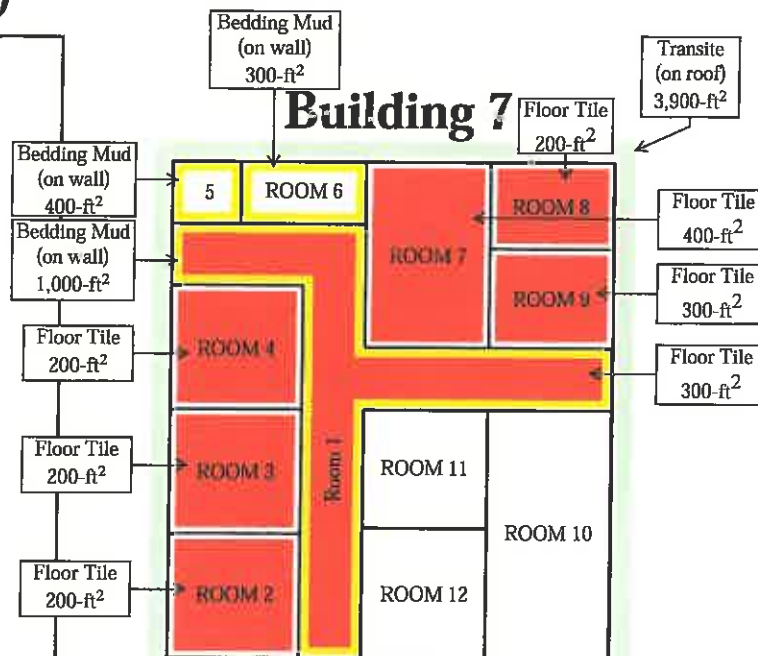


Building 6



Building 6 is actually located
approximately 10-feet east of
Building 4

Building 7



Floor Tile

Transite

Bedding Mud





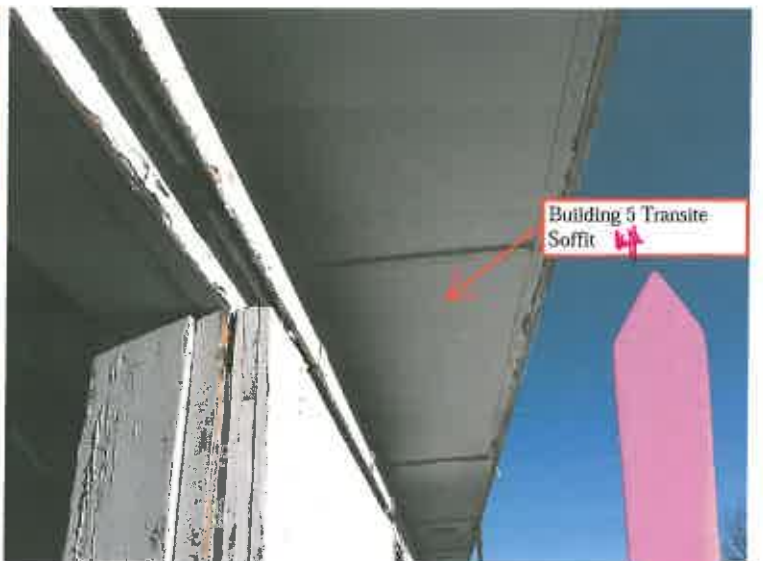
Building 2



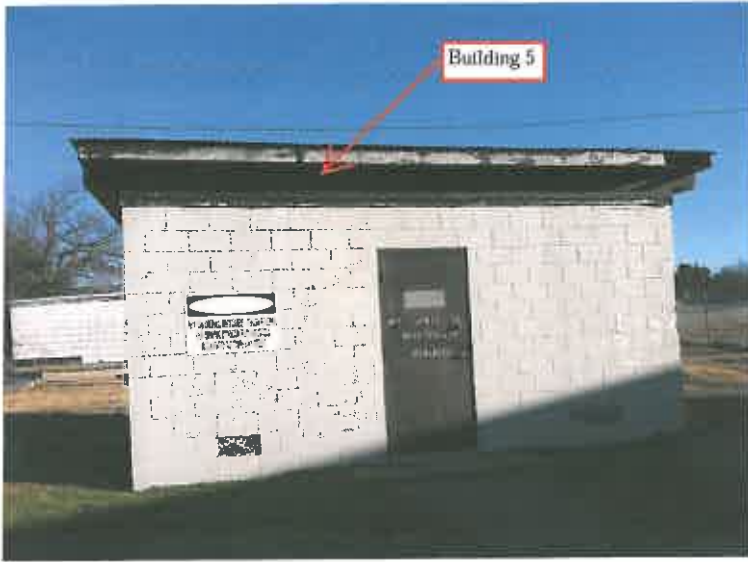
Building 3



Building 4 Exterior Transite



Building 5 Transite Soffit



Building 5



Building 5 Transite Ceiling

FEE: \$500.00

Oklahoma Department of Labor



Jamie Marshall

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA MANAGEMENT PLANNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in him by law hereby issues to the
applicant license No. **OK-MP400477**.

Mark Costello

MARK COSTELLO
Commissioner of Labor

June 01, 2011

Date of Issuance

EXPIRES: June 01, 2012

FEE: \$500.00

Oklahoma Department of Labor



Charles Marshall

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA MANAGEMENT PLANNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in him by law hereby issues to the
applicant license No. OK-MP130246.

Mark Costello

MARK COSTELLO
Commissioner of Labor

July 18, 2011

Date of Issuance

EXPIRES: June 29, 2012

McALESTER ARMORY

*319 East Polk Avenue
McAlester, Oklahoma 74502*

December 27, 2011

*Lead-Based Paint Inspection & Surface-Dust Sampling
Department of Central Services Contract Number: 12070-4*

Services Provided For:

*Oklahoma Department of Environmental Quality
Land Protection Division
Care Of: Dustin Davidson, Environmental Programs Specialist
Post Office Box: 1677
Oklahoma City, Oklahoma 73102
Phone: 405.702.5115
Email: dustindavidson@deq.ok.gov*

Services Provided By:

*Marshall Environmental Management, Incorporated
Attention: Jacob Jones, Industrial Hygiene Associate
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
Phone: 405.616.0401
Email: marshenv@swbell.net*

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CERTIFICATION

This is to certify that, Marshall Environmental Management, Incorporated was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection, as well as collect samples of surface dust, of the McAlester Armory, located at 319 East Polk Avenue in McAlester, Oklahoma, for the State of Oklahoma Department of Environmental Quality, Land Protection Division. All services performed on December 27, 2011 were conducted by Certified, Oklahoma Department of Environmental Quality, Lead-Based Paint Inspector/Risk Assessor Jacob Jones, representative of Marshall Environmental Management, Incorporated, under the direction of Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Incorporated. The analytical results associated with this Lead-Based Paint Inspection and settled dust sampling are believed to accurately, reflect the concentrations of lead in paint and surface dust that were present at the time this Inspection was accomplished.

OWNER INFORMATION

City of McAlester

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR


Jacob Jones, B.S./Industrial Hygiene Associate
ODEQ Certification Number: OKRASR13457

3-8-12
Report Date

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Incorporated
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
ODEQ Certification Number: OKFIRM11160

X-RAY FLUORESCENCE ANALYZER

Analyzer Make: Niton XLP Spectrum Analyzer
Analyzer Model: #XLP 300A
Analyzer Serial Number: 12585
Source Date: April 2011

MCALESTER ARMORY

LEAD-BASED PAINT INSPECTION & SURFACE-DUST SAMPLING

EXECUTIVE SUMMARY

On December 27, 2011 Marshall Environmental Management, Incorporated (MEM) performed a Lead-Based Paint (LBP) Inspection in addition to collecting samples of surface dust as part of the Oklahoma Department of Environmental Quality (ODEQ), Land Protection Division (LPD) Site Cleanup Assistance Program and Armory Cleanup Program. This Inspection and settled dust sampling were accomplished for the purpose of establishing the presence of LBP and/or lead-leaden dust so, if necessary, a strategy may be prepared for abatement/remediation activities. As such, the analytical data identified LBP and/or lead-leaden dust on various miscellaneous, door and doorjamb, window and floor surfaces throughout the McAlester Armory (see the Analytical Findings below and attached diagrams for specific locations). Several windows were not tested and assumed positive for LBP due to the condition of the paint. Additionally, No testing or sample collection was performed in the Indoor Firing Range (IFR) because the basement was flooded at the time of the Inspection. The remainder of this Report is comprised of the Sampling Methodology, Scope of Service, specific Analytical Findings and sampling locations, the Disclaimer and Standard of Care, information regarding LBP and the obligation to disclose the results of this LBP Inspection.

SAMPLING METHODOLOGY

This LBP Inspection and Surface-Dust Sampling Event were conducted in accordance with the US Housing and Urban Development (HUD) guidelines, "*Guidelines for the Evaluation of Lead-Based Paint Hazards in Housing*," and the requirements set forth by the Environmental Protection Agency (EPA), "*Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities*," 40 Code of Federal Regulations (CFR) Part 745.

SCOPE OF SERVICE

LEAD-BASED PAINT

All painted surfaces within the Armory were representatively sampled and analyzed for lead content excluding non-fixed and factory painted items utilizing an X-Ray Fluorescence (XRF), direct reading, data logging instrument. The street facing side of the Armory was labeled as Side A and going in a clockwise direction, the remaining sides were categorized as Side B, Side C and Side D respectively. The corresponding analytical data, including start and stop times and calibration checks, and the floor plan diagrams that illustrate room equivalents and the locations of LBP surfaces are provided with the Appendix to this Report.

LEAD-LADEN DUST

Surface-dust collected from randomly selected floor surfaces throughout the Armory were sampled and analyzed for lead content. The surface dust is collected by placing a template of a known dimension firmly against the selected surface; next, the area within the template is wiped in a particular pattern utilizing a specified wipe; each wipe is then placed in an approved container for transportation purposes. The laboratory data resulting from the analysis of the surface samples coincides with the sampling locations illustrated on the floor plan diagram attached with the Appendix to this Report.

ANALYTICAL FINDINGS

LEAD-BASED PAINT

According to HUD/EPA, “Lead-Based Paint” is characterized as paint that contains concentrations of lead greater than or equal to 1-milligram per square centimeter ($\geq 1\text{-mg/cm}^2$). Excluding the doors and doorjamb, the following tables list and categorize the painted surfaces in which the lead concentrations exceeded 1-mg/cm^2 thus characterizing the paint as lead-based. Table II summarizes the positive/negative door and doorjamb analytical data.

**TABLE I: MISCELLANEOUS LEAD-BASE PAINTED SURFACES
BUILDING I – ARMORY**

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
EXTERIOR	A	ROOF DRAIN	METAL	BROWN
EXTERIOR	A	OVERHEAD DOOR FRAME #1	METAL	BROWN
EXTERIOR	A	OVERHEAD DOOR FRAME #3	METAL	BROWN
EXTERIOR	A	ROOF DRAIN #2	METAL	BROWN
EXTERIOR	A	OVERHEAD DOOR FRAME #5	METAL	BROWN
EXTERIOR	A	OVERHEAD DOOR FRAME #6	METAL	BROWN
EXTERIOR	A	OVERHEAD DOOR FRAME #9	METAL	BROWN
EXTERIOR	A	ROOF DRAIN #3	METAL	BROWN
EXTERIOR	A	ROOF DRAIN #4	METAL	BROWN
EXTERIOR	B	WINDOW LEDGE #1	CONCRETE	BROWN
EXTERIOR	B	WINDOW LEDGE #2	CONCRETE	BROWN
EXTERIOR	B	WINDOW LINTEL #2	METAL	BROWN
EXTERIOR	C	ROOF DRAIN #1	METAL	BROWN
EXTERIOR	C	ROOF DRAIN #2	METAL	BROWN
EXTERIOR	C	ROOF DRAIN #3	METAL	BROWN
EXTERIOR	C	ROOF DRAIN #4	METAL	BROWN
EXTERIOR	D	PARKING STOP	CONCRETE	WHITE
EXTERIOR	D	PARKING STOP	CONCRETE	RED
EXTERIOR	D	WINDOW LINTEL	CONCRETE	WHITE
EXTERIOR	D	DOOR THRESHOLD	CONCRETE	YELLOW
ROOM 2	N/A	FLOOR	CONCRETE	BLACK
ROOM 15	NA	STAIR RAIL	METAL	BROWN
ROOM 19	NA	STAIR RAIL	METAL	BROWN
ROOM 23	B	WINDOW GUARD	METAL	WHITE
ROOM 23	C	WINDOW GUARD	METAL	WHITE
ROOM 31	C	TRIM	WOOD	RED

McAlester Armory – Lead-Based Paint Inspection & Surface-Dust Sampling

BUILDING 3 – AUXILIARY BUILDING

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
BUILDING 3 – EXTERIOR	A	DOOR GUARD	METAL	YELLOW

BUILDING 4 – AUXILIARY BUILDING

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
BUILDING 4 – EXTERIOR	A	SOFFIT	TRANSITE	WHITE
BUILDING 4 – EXTERIOR	A	OVERHEAD DOOR TRACK	METAL	WHITE
BUILDING 4 – ROOM 1	A	OVERHEAD DOOR	METAL	WHITE
BUILDING 4 – ROOM 1	A	OVERHEAD DOOR	METAL	WHITE
BUILDING 4 – ROOM 2	B	WALL	WOOD	WHITE
BUILDING 4 – ROOM 2	C	WALL	WOOD	WHITE
BUILDING 4 – ROOM 2	D	WALL	WOOD	WHITE
BUILDING 4 – ROOM 2	N/A	CEILING	WOOD	WHITE
BUILDING 4 – ROOM 2	A	OVERHEAD DOOR	METAL	WHITE

BUILDING 6 – AUXILIARY BUILDING

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
BUILDING 6 – EXTERIOR	D	TRIM	METAL	WHITE

BUILDING 7 – AUXILIARY BUILDING

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
BUILDING 7 – ROOM 4	C	WALL	DRYWALL	WHITE

**TABLE II: DOORS & DOORJAMBS
BUILDING 1 – ARMORY**

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NEGATIVE	POSITIVE	—
2	FACTORY FINISH	NEGATIVE	—
3	NO PAINT	NEGATIVE	—
4	FACTORY FINISH	NO PAINT	—
5	NEGATIVE	FACTORY FINISH	—
6	NEGATIVE	NEGATIVE	—
7	FACTORY FINISH	NEGATIVE	—
8	NO PAINT	NEGATIVE	—
9	NO PAINT	NO PAINT	—
10	NO PAINT	NO PAINT	—
11	NO PAINT	POSITIVE	—
12	NO PAINT	NEGATIVE	5x7-feet
13	NO DOOR	POSITIVE	—
14	NO PAINT	POSITIVE	3x7-feet
15	POSITIVE	POSITIVE	4x7-feet
16	POSITIVE	POSITIVE	3x7-feet
17	POSITIVE	POSITIVE	3x7-feet
18	NO DOOR	POSITIVE	6x7x1-feet
19	NO PAINT	NEGATIVE	—
20	NO PAINT	NEGATIVE	—
21	NEGATIVE	POSITIVE	3x7-feet
22	POSITIVE	POSITIVE	3x7-feet
23	NEGATIVE	NEGATIVE	—
24	NEGATIVE	NEGATIVE	—
25	NEGATIVE	NO PAINT	—
26	NEGATIVE	NEGATIVE	—
27	POSITIVE	POSITIVE	3x7-feet
28	NO PAINT	NEGATIVE	—
29	NO PAINT	NEGATIVE	—
30	POSITIVE	POSITIVE	3x7-feet
31	NEGATIVE	POSITIVE	3x7-feet
32	NO PAINT	POSITIVE	5x7-feet
33	POSITIVE	POSITIVE	3x7-feet
34	NO PAINT	NEGATIVE	—
35	NO PAINT	NEGATIVE	—
36	NO DOOR	POSITIVE	3x7x1-feet
37	NO PAINT	POSITIVE	3x7x1-feet
38	NEGATIVE	POSITIVE	3x7x1-feet
39	POSITIVE	POSITIVE	4x7x1-feet
40	POSITIVE	POSITIVE	3x7-feet
41	POSITIVE	POSITIVE	3x7-feet
42	NEGATIVE	POSITIVE	4x7-feet
43	NEGATIVE	POSITIVE	3x7-feet
44	POSITIVE (assumed)	POSITIVE (assumed)	3x7-feet
45	NEGATIVE	POSITIVE	3x7-feet
46	NEGATIVE	POSITIVE	3x7-feet
47	POSITIVE	POSITIVE	4x7-feet
48	NO DOOR	POSITIVE	3x7-feet
49	NEGATIVE	NEGATIVE	—
50	NEGATIVE	NEGATIVE	—

McAlester Armory – Lead-Based Paint Inspection & Surface-Dust Sampling

BUILDING 3 – AUXILIARY BUILDING

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NEGATIVE	NEGATIVE	—
2	NO PAINT	NO PAINT	—
3	NO PAINT	NEGATIVE	—
4	NEGATIVE	NEGATIVE	—
5	NEGATIVE	NEGATIVE	—
6	NEGATIVE	NEGATIVE	—
7	NEGATIVE	NEGATIVE	—

BUILDING 4 – AUXILIARY BUILDING

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NEGATIVE	NO PAINT	—

BUILDING 5 – AUXILIARY BUILDING

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NEGATIVE	NEGATIVE	—

BUILDING 6 – AUXILIARY BUILDING

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	POSITIVE	POSITIVE	3X7-feet

BUILDING 7 – AUXILIARY BUILDING

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NEGATIVE	NEGATIVE	—
2	NEGATIVE	NEGATIVE	—
3	NEGATIVE	NEGATIVE	—
4	NEGATIVE	NEGATIVE	—
5	NEGATIVE	NEGATIVE	—
6	NEGATIVE	NEGATIVE	—
7	NEGATIVE	FACTORY FINISH	—
8	NO PAINT	NO PAINT	—
9	NEGATIVE	NEGATIVE	—
10	NEGATIVE	NEGATIVE	—
11	NEGATIVE	NEGATIVE	—
12	NO PAINT	FACTORY FINISH	—
13	NEGATIVE	NEGATIVE	—
14	NEGATIVE	NEGATIVE	—
15	NEGATIVE	NEGATIVE	—
16	NEGATIVE	NEGATIVE	—

***TABLE III: LEAD-BASE PAINTED WINDOWS
BUILDING 1 – ARMORY***

WINDOW NUMBER	SIDE	WINDOW RESULT	DIMENSIONS
1	B	POSITIVE	2.5X6-feet
4	B	POSITIVE	2.5X6-feet
1	C	POSITIVE	2.5X6-feet

LEAD-LADEN DUST

In accordance with HUD/EPA, surface-dust containing a concentration of lead equal to or greater than 40-micrograms per square foot (40- $\mu\text{g}/\text{ft}^2$) represents lead contamination; this action level applies to all surfaces within the Armory. The table below reflects the concentrations of lead in surface dust that were established throughout the Armory, and the “Bolded” data represents lead concentrations that exceeded the respective action level.

**TABLE VI: LEAD IN SURFACE DUST
BUILDING I – ARMORY**

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
1	ROOM 1	118-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2	ROOM 2	21.9- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3	ROOM 3	48.9-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4	ROOM 4	42.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5	ROOM 5	48.7-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6	ROOM 6	136-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7	ROOM 7	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8	ROOM 8	23.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9	ROOM 9	105-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10	ROOM 10	434-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11	ROOM 11	488-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12	ROOM 12	69.1-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13	ROOM 13	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
14	ROOM 14	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
15	ROOM 15	86.9-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
16	ROOM 16	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
17	ROOM 17	94.8-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
18	ROOM 18	73.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
19	ROOM 19	305-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
20	ROOM 20	194-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
21	ROOM 21	93.1-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
22	ROOM 22	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
23	ROOM 23	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
24	ROOM 24	40.5-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
25	ROOM 25	150-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
26	ROOM 26	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
27	ROOM 27	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
28	ROOM 28	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
29	ROOM 29	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
30	ROOM 30	107-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
31	ROOM 30-EAST	397-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
32	ROOM 30-CENTER	31.4-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
32	ROOM 30-WEST	24.1-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
34	ROOM 31	80.0-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
35	STAGE	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

McAlester Armory – Lead-Based Paint Inspection & Surface-Dust Sampling

BUILDING 2 – AUXILIARY BUILDING

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
36	BUILDING 2-ROOM 1	55.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

BUILDING 3 – AUXILIARY BUILDING

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
37	BUILDING 3-ROOM 1	45.7- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
38	BUILDING 3-ROOM 2	75.1- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
39	BUILDING 3-ROOM 3	56.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
40	BUILDING 3-ROOM 4	105- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
41	BUILDING 3-ROOM 5	293- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
42	BUILDING 3-ROOM 6	443- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
43	BUILDING 3-ROOM 7	193- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

BUILDING 4 – AUXILIARY BUILDING

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
44	BUILDING 4-ROOM 1	1,750- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
45	BUILDING 4-ROOM 2	374- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

BUILDING 5 – AUXILIARY BUILDING

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
46	BUILDING 5-ROOM 1	169- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

BUILDING 7 – AUXILIARY BUILDING

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
47	BUILDING 7-ROOM 1	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
48	BUILDING 7-ROOM 2	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
49	BUILDING 7-ROOM 3	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
50	BUILDING 7-ROOM 4	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
51	BUILDING 7-ROOM 5	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
52	BUILDING 7-ROOM 6	38.9- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
53	BUILDING 7-ROOM 7	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
54	BUILDING 7-ROOM 8	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
55	BUILDING 7-ROOM 9	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
56	BUILDING 7-ROOM 10	<21.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

HISTORICAL OVERVIEW OF LEAD-BASED PAINT ACTIVITIES

Historical records were not provided for review nor was there evidence or information that would suggest that a prior LBP Inspection or Risk Assessment occurred within the McAlester Armory.

DISCLAIMER AND STANDARD OF CARE

The McAlester Armory consists of a one-story structure with a brick façade, flat roof and a basement that was previously utilized as an IFR in addition to six auxiliary buildings that were located in the immediate vicinity of the Armory. The Armory and auxiliary building were constructed circa 1936. Although the paint on various surfaces does not contain lead in concentrations that exceed the federal standard, a hazard could be presented if painted surfaces are disturbed. Occupational Safety and Health Administration (OSHA) regulations covering worker safety and health may apply when painted surfaces, lead-based paint or not, are disturbed. For any renovation that may disturb more than two square feet (2-ft²) of painted surface in a facility built before 1978 the EPA pre-renovation rule requires that the contractor provide a copy of the booklet “*Protect Your Family From Lead in Your Home*” or “*Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools.*” Furthermore, if renovation of any kind takes place the contractor should provide a copy of “*Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools.*” This Report was generated utilizing HUD/EPA protocols referenced in the Certification portion of this Report. The analytical results associated with this LBP Inspection are only applicable on the date(s) indicated and future activities may alter the results. At the time these services were completed, the IFR was flooded so no testing or sample collection was performed in the basement. Furthermore, several windows were not tested due to the condition of the paint and assumed positive for LBP.

DISCLOSURE STATEMENT AND OWNERS LEGAL OBLIGATION

Under Federal law (24 CFR Part 35 and 40 CFR Part 745), this LBP Inspection Report must be disclosed and made available to prospective tenants before becoming obligated under a lease or sales contract where LBP is present. If an Inspection finds that LBP is not present in certain multifamily dwelling units, which are to be leased, the dwelling unit(s) is exempt from disclosure requirements. However, under federal law **even if no LBP is identified** the owner is still required to fulfill certain legal responsibilities when the property is sold not leased. Property owners and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that information is provided in order to protect children from LBP hazards.

Information regarding the legal obligation to disclose results associated with LBP inspections and/or risk assessments to tenants and/or purchasers can be obtained from the National Lead Information Center Clearinghouse (1-800-424-LEAD). This information is specified in 24 CFR Part 35 and 40 CFR Part 745 (published in the *Federal Register*, Volume 61, Number 45, April 6, 1996, beginning on p. 9064).

LEAD-BASED PAINT INFORMATION

You may contact the National Lead Information Center Clearinghouse (1-800-424-LEAD) to obtain HUD/EPA brochures, question and answer booklets, regulations, mentioned in this Report, and other information regarding LBP disclosure.

APPENDIX

XRF ANALYTICAL DATA
(CALIBRATION CHECKS & START & STOP TIMES)

SURFACE WIPES

CHAIN OF CUSTODY
ANALYTICAL DATA

FLOOR PLAN DIAGRAMS

MISCELLANEOUS SURFACES
DOORS & DOORJAMBS
WINDOWS
SURFACE DUST

DIGITAL PHOTOGRAPHS

CERTIFICATIONS

McAlester Armory
 319 East Polk Avenue
 McAlester, Oklahoma 74502

Marshall Environmental Management, Inc.
 1601 Southwest 89th Street, Suite A-100
 Oklahoma City, OK 73159

Grids	File	Type	Component	Substrate	Side	Color	Results	PPM	Pb	Pb/Pb
1	2011-12-27 13:41	PAINT			CALIBRATE		Positive	1.00 ± 0.10	1.00 ± 0.10	0.90 ± 0.30
4	2011-12-27 13:43	PAINT			CALIBRATE		Positive	1.00 ± 0.10	1.00 ± 0.10	0.90 ± 0.30
5	2011-12-27 13:43	PAINT			CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	< LOD: 0.60
6	2011-12-27 13:44	PAINT	ROOF DRAIN	METAL	A	BROWN	Positive	< LOD: 5.70	< LOD: 1.65	< LOD: 5.70
7	2011-12-27 13:45	PAINT	OVERHEAD DOOR FRAME #1	METAL	A	BROWN	Positive	< LOD: 5.10	< LOD: 3.45	< LOD: 5.10
8	2011-12-27 13:46	PAINT	OVERHEAD DOOR FRAME #3	METAL	A	BROWN	Positive	2.70 ± 1.20	< LOD: 0.60	2.70 ± 1.20
9	2011-12-27 13:47	PAINT	WALL	CONCRETE	A	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
10	2011-12-27 13:48	PAINT	ROOF DRAIN #2	METAL	A	BROWN	Positive	< LOD: 5.40	< LOD: 1.95	< LOD: 5.40
11	2011-12-27 13:48	PAINT	DGOR	METAL	5	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.94
12	2011-12-27 13:49	PAINT	DOOR JAMB	METAL	5	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.42
13	2011-12-27 13:49	PAINT	DOOR JAMB	METAL	46	BROWN	Positive	3.30 ± 2.10	3.30 ± 2.10	< LOD: 5.25
14	2011-12-27 13:50	PAINT	DOOR TRIM	METAL	46	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.03
15	2011-12-27 13:51	PAINT	TRIM	CONCRETE	A	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.21
16	2011-12-27 13:52	PAINT	OVERHEAD DOOR	METAL	A	WHITE	Negative	< LOD: 0.09	< LOD: 0.03	< LOD: 3.07
17	2011-12-27 13:52	PAINT	OVERHEAD DOOR	METAL	A	WHITE	Negative	< LOD: 0.09	< LOD: 0.03	< LOD: 2.40
18	2011-12-27 13:53	PAINT	OVERHEAD DOOR FRAME #5	METAL	A	BROWN	Positive	< LOD: 4.65	< LOD: 1.65	< LOD: 4.65
19	2011-12-27 13:54	PAINT	DOOR JAMB	METAL	45	BROWN	Positive	2.80 ± 1.60	2.80 ± 1.60	< LOD: 4.95
20	2011-12-27 13:55	PAINT	DOOR	METAL	45	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.17
21	2011-12-27 13:56	PAINT	ROOF DRAIN #3	METAL	A	BROWN	Positive	< LOD: 4.50	< LOD: 2.40	< LOD: 4.50
22	2011-12-27 13:57	PAINT	OVERHEAD DOOR FRAME #6	METAL	A	BROWN	Positive	3.40 ± 2.10	< LOD: 2.10	3.40 ± 2.10
23	2011-12-27 13:57	PAINT	OVERHEAD DOOR FRAME #9	METAL	A	BROWN	Positive	3.20 ± 2.00	2.40 ± 1.50	3.20 ± 2.00
24	2011-12-27 13:58	PAINT	DOOR	METAL	50	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.15
25	2011-12-27 13:59	PAINT	DOOR JAMB	METAL	50	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.30
26	2011-12-27 13:59	PAINT	ROOF DRAIN #4	METAL	A	BROWN	Positive	6.00 ± 3.90	< LOD: 4.50	6.00 ± 3.90
27	2011-12-27 14:00	PAINT	WALL	CONCRETE	A	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
29	2011-12-27 14:01	PAINT	TRIM	CONCRETE	B	BROWN	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.50
30	2011-12-27 14:02	PAINT	WALL	CONCRETE	B	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
31	2011-12-27 14:03	PAINT	STEP	CONCRETE	B	YELLOW	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.35
32	2011-12-27 14:03	PAINT	DOOR	METAL	42	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.26
33	2011-12-27 14:03	PAINT	DOOR JAMB	METAL	42	BROWN	Positive	2.30 ± 1.20	2.30 ± 1.20	< LOD: 3.90
34	2011-12-27 14:04	PAINT	WINDOW #1	METAL	B	BROWN	Positive	3.90 ± 2.30	3.90 ± 2.30	< LOD: 5.40
35	2011-12-27 14:05	PAINT	WINDOW #4	METAL	B	BROWN	Positive	2.50 ± 1.50	2.50 ± 1.50	< LOD: 3.75
36	2011-12-27 14:07	PAINT	WINDOW LEDGE #1	CONCRETE	B	BROWN	Positive	1.90 ± 0.80	0.80 ± 0.30	1.90 ± 0.80
37	2011-12-27 14:08	PAINT	WINDOW LEDGE #2	CONCRETE	B	BROWN	Positive	4.20 ± 2.30	4.20 ± 2.30	< LOD: 9.75
38	2011-12-27 14:09	PAINT	WINDOW LEDGE #3	CONCRETE	B	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
40	2011-12-27 14:09	PAINT	WINDOW LEDGE #3	CONCRETE	B	WHITE	Negative	0.12 ± 0.06	0.12 ± 0.06	1.10 ± 0.50
41	2011-12-27 14:10	PAINT	WINDOW LEDGE #4	CONCRETE	B	BROWN	Negative	0.15 ± 0.06	0.15 ± 0.08	< LOD: 1.35
42	2011-12-27 14:11	PAINT	ROOF DRAIN #1	METAL	C	BROWN	Positive	< LOD: 4.50	< LOD: 3.45	< LOD: 4.50
44	2011-12-27 14:11	PAINT	ROOF DRAIN #2	METAL	C	BROWN	Positive	< LOD: 5.70	< LOD: 3.45	< LOD: 5.70
45	2011-12-27 14:13	PAINT	WINDOW #1	METAL	C	BROWN	Positive	2.30 ± 1.20	2.30 ± 1.20	< LOD: 4.05

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Index	Date	Type	Component	Substrate	Side	Color	Results	PPM	PbI	PbII
46	2011-12-27 14:14	PAINT	WINDOW LEDGE #2	CONCRETE	C	BROWN	Negative	< LOD : 0.18	< LOD : 0.18	< LOD : 1.35
47	2011-12-27 14:15	PAINT	WINDOW LEDGE #1	CONCRETE	C	BROWN	Negative	0.13 ± 0.08	< LOD : 0.08	< LOD : 1.20
48	2011-12-27 14:22	PAINT	WINDOW LENTEL #2	METAL	B	BROWN	Positive	3.70 ± 1.80	3.70 ± 1.80	< LOD : 5.40
49	2011-12-27 14:24	PAINT	WINDOW LEDGE #2	CONCRETE	C	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
50	2011-12-27 14:26	PAINT	DOOR	METAL	36	BROWN	Negative	< LOD : 0.20	< LOD : 0.20	< LOD : 2.98
51	2011-12-27 14:26	PAINT	DOOR JAMB	METAL	26	BROWN	Negative	< LOD : 0.42	< LOD : 0.42	< LOD : 2.88
52	2011-12-27 14:27	PAINT	CAGE	METAL	C	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.77
53	2011-12-27 14:29	PAINT	ROOF DRAIN # 3	METAL	C	BROWN	Positive	6.70 ± 4.00	< LOD : 2.40	6.70 ± 4.00
54	2011-12-27 14:30	PAINT	ROOF DRAIN # 4	METAL	C	BROWN	Positive	7.10 ± 4.20	< LOD : 3.00	7.10 ± 4.20
55	2011-12-27 14:33	PAINT	TRIM	CONCRETE	D	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
56	2011-12-27 14:33	PAINT	SIGN	CONCRETE	D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.50
57	2011-12-27 14:34	PAINT	PARKING STOP	CONCRETE	D	WHITE	Positive	1.70 ± 0.70	1.70 ± 0.70	< LOD : 3.75
58	2011-12-27 14:34	PAINT	PARKING STOP	CONCRETE	D	RED	Positive	2.80 ± 1.20	2.80 ± 1.20	< LOD : 4.65
59	2011-12-27 14:36	PAINT	WINDOW LEDGE	CONCRETE	D	BROWN	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.35
60	2011-12-27 14:38	PAINT	WINDOW LENTEL #1	CONCRETE	D	WHITE	Negative	< LOD : 0.30	< LOD : 0.30	< LOD : 3.60
61	2011-12-27 14:39	PAINT	WINDOW LENTEL #3	CONCRETE	D	WHITE	Positive	2.40 ± 0.90	2.40 ± 0.90	< LOD : 4.95
62	2011-12-27 14:40	PAINT	DOOR	METAL	43	BROWN	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 2.66
63	2011-12-27 14:40	PAINT	DOOR JAMB	METAL	43	BROWN	Positive	2.80 ± 1.80	2.80 ± 1.80	< LOD : 5.10
64	2011-12-27 14:41	PAINT	DOOR THRESHOLD	CONCRETE	D	YELLOW	Positive	3.00 ± 1.30	3.00 ± 1.30	< LOD : 4.50
65	2011-12-27 14:44	PAINT	WALL	DRYWALL	RM 1 A	WHITE	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 1.65
66	2011-12-27 14:44	PAINT	WALL	DRYWALL	RM 1 B	WHITE	Negative	0.70 ± 0.30	0.70 ± 0.30	< LOD : 0.90
67	2011-12-27 14:44	PAINT	WALL	DRYWALL	RM 1 C	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 2.13
68	2011-12-27 14:45	PAINT	WALL	DRYWALL	RM 1 D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.92
69	2011-12-27 14:45	PAINT	WALL	DRYWALL	RM 2 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.97
70	2011-12-27 14:45	PAINT	WALL	DRYWALL	RM 2 B	WHITE	Negative	0.60 ± 0.30	0.60 ± 0.30	< LOD : 1.65
71	2011-12-27 14:46	PAINT	WALL	DRYWALL	RM 2 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.65
72	2011-12-27 14:46	PAINT	WALL	DRYWALL	RM 2 D	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.77
73	2011-12-27 14:46	PAINT	FLOOR	CONCRETE	RM 2	BLACK	Positive	1.30 ± 0.20	1.30 ± 0.20	1.80 ± 1.00
74	2011-12-27 14:48	PAINT	WALL	CONCRETE	RM 3 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
75	2011-12-27 14:48	PAINT	WALL	CONCRETE	RM 3 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.80
76	2011-12-27 14:49	PAINT	WALL	CONCRETE	RM 4 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
77	2011-12-27 14:50	PAINT	WALL	CONCRETE	RM 4 B	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.35
78	2011-12-27 14:50	PAINT	WALL	CONCRETE	RM 4 C	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.20
79	2011-12-27 14:50	PAINT	WALL	CONCRETE	RM 4 D	WHITE	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 1.05
80	2011-12-27 14:51	PAINT	CONDUIT	METAL	RM 4 B	WHITE	Negative	< LOD : 0.32	< LOD : 0.32	< LOD : 3.41
81	2011-12-27 14:53	PAINT	WALL	METAL	RM 5 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
82	2011-12-27 14:53	PAINT	WALL	METAL	RM 5 A	RED	Negative	< LOD : 0.01	< LOD : 0.04	< LOD : 1.20
83	2011-12-27 14:53	PAINT	WALL	METAL	RM 5 A	GOLD	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.75
84	2011-12-27 14:54	PAINT	WALL	METAL	RM 5 B	GOLD	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
85	2011-12-27 14:54	PAINT	WALL	WOOD	RM 5 C	GOLD	Negative	< LOD : 0.26	< LOD : 0.26	< LOD : 1.80

ID#	Time	Type	Component	Substrate	Side	Color	Results	PAC	PH	Pink
86	2011-12-27 14:54	PAINT	WALL	WOOD	RM 5 D	GOLD	Negative	< LOD: 0.08	< LOD: 0.08	< LOD: 1.50
87	2011-12-27 14:55	PAINT	WALL	WOOD	RM 6 A	GOLD	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
88	2011-12-27 14:55	PAINT	WALL	CONCRETE	RM 6 D	WHITE	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 1.35
89	2011-12-27 14:56	PAINT	WALL	CONCRETE	RM 7 D	WHITE	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 1.20
90	2011-12-27 14:57	PAINT	WALL	CONCRETE	RM 7 D	RED	Negative	< LOD: 0.09	< LOD: 0.09	< LOD: 1.20
91	2011-12-27 14:57	PAINT	WALL	CONCRETE	RM 7 D	GOLD	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 1.05
93	2011-12-27 14:57	PAINT	WALL	CONCRETE	RM 7 D	BLACK	Negative	< LOD: 0.26	< LOD: 0.26	< LOD: 1.23
94	2011-12-27 14:59	PAINT	WALL	CONCRETE	RM 9 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
95	2011-12-27 14:59	PAINT	WALL	CONCRETE	RM 9 B	WHITE	Negative	< LOD: 0.11	< LOD: 0.11	< LOD: 1.05
96	2011-12-27 15:00	PAINT	WALL	CONCRETE	RM 9 C 1	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
97	2011-12-27 15:00	PAINT	WALL	CONCRETE	RM 9 C 2	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
99	2011-12-27 15:01	PAINT	WALL	CONCRETE	RM 9 C 3	WHITE	Negative	0.05 ± 0.03	0.05 ± 0.03	1.20 ± 0.50
100	2011-12-27 15:01	PAINT	WINDOW LEDGE	CONCRETE	RM 9 C 3	WHITE	Negative	0.06 ± 0.03	0.05 ± 0.03	< LOD: 1.35
101	2011-12-27 15:02	PAINT	WALL	CONCRETE	RM 9 D	WHITE	Negative	< LOD: 0.07	< LOD: 0.07	< LOD: 1.20
102	2011-12-27 15:03	PAINT	WALL	CONCRETE	RM 10 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
103	2011-12-27 15:03	PAINT	WALL	CONCRETE	RM 10 B	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 2.40
104	2011-12-27 15:04	PAINT	WALL	CONCRETE	RM 10 C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
105	2011-12-27 15:04	PAINT	WALL	CONCRETE	RM 10 D	WHITE	Negative	< LOD: 0.08	< LOD: 0.08	< LOD: 1.20
106	2011-12-27 15:04	PAINT	FLOOR	CONCRETE	RM 9	GREY	Negative	< LOD: 0.13	< LOD: 0.13	< LOD: 1.50
107	2011-12-27 15:05	PAINT	FLOOR	CONCRETE	RM 11 A	GREY	Negative	0.21 ± 0.09	0.21 ± 0.09	< LOD: 1.35
108	2011-12-27 15:06	PAINT	WALL	CONCRETE	RM 11 B	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 1.20
109	2011-12-27 15:06	PAINT	WALL	CONCRETE	RM 11 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
110	2011-12-27 15:07	PAINT	WALL	CONCRETE	RM 11 C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 0.90
111	2011-12-27 15:07	PAINT	WALL	CONCRETE	RM 11 D	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.35
112	2011-12-27 15:08	PAINT	CABINET	WOOD	RM 11 D	BROWN	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.82
113	2011-12-27 15:09	PAINT	WALL	DRYWALL	RM 12 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.35
114	2011-12-27 15:09	PAINT	WALL	DRYWALL	RM 12 B	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.86
115	2011-12-27 15:09	PAINT	WALL	DRYWALL	RM 12 C	WHITE	Negative	0.70 ± 0.20	0.70 ± 0.20	< LOD: 0.90
116	2011-12-27 15:10	PAINT	WALL	DRYWALL	RM 12 D	WHITE	Negative	< LOD: 0.09	< LOD: 0.09	< LOD: 2.09
117	2011-12-27 15:10	PAINT	STALL	METAL	RM 12 A	RED	Negative	< LOD: 0.09	< LOD: 0.09	< LOD: 2.50
118	2011-12-27 15:32	PAINT	CEILING	DRYWALL	RM 14	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.50
119	2011-12-27 15:34	PAINT	WALL	CONCRETE	RM 15C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.50
120	2011-12-27 15:34	PAINT	WALL	CONCRETE	RM 15D	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 1.20
121	2011-12-27 15:34	PAINT	FLOOR	CONCRETE	RM 15	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.05
122	2011-12-27 15:35	PAINT	STAIR	CONCRETE	RM 15	BROWN	Negative	0.12 ± 0.06	0.12 ± 0.06	< LOD: 1.35
123	2011-12-27 15:35	PAINT	STAIR	CONCRETE	RM 15	BROWN	Negative	0.18 ± 0.09	0.18 ± 0.09	< LOD: 1.20
124	2011-12-27 15:35	PAINT	STAIR RAIL	CONCRETE	RM 15	WHITE	Negative	0.13 ± 0.07	0.12 ± 0.07	< LOD: 1.38
125	2011-12-27 15:39	PAINT	WINDOW SILL #1	CONCRETE	RM 18C	BROWN	Positive	2.20 ± 0.80	2.20 ± 0.80	< LOD: 4.50
126	2011-12-27 15:39	PAINT	WINDOW SILL #2	CONCRETE	RM 18C	BLACK	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
127	2011-12-27 15:40	PAINT	WINDOW SILL #3	CONCRETE	RM 18C	GREEN	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.35
				CONCRETE	RM 18C	BLACK	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.35

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Index	Date	Type	Component	Substrate	Side	Color	Results	PLC	PII	PLS
128	2011-12-27 15:41	PAINT	WALL	CONCRETE	RM 18C	WHITE	Negative	0.10 ± 0.04	9.10 ± 0.04	< LOD : 1.05
129	2011-12-27 15:42	PAINT	WALL	CONCRETE	RM 19 B	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	1.00 ± 0.50
130	2011-12-27 15:43	PAINT	WALL	CONCRETE	RM 19 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	1.20 ± 0.40
131	2011-12-27 15:43	PAINT	FLOOR	CONCRETE	RM 19	BROWN	Negative	0.14 ± 0.08	9.14 ± 0.08	< LOD : 1.35
132	2011-12-27 15:44	PAINT	STAIR	CONCRETE	RM 19	BROWN	Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 2.30
133	2011-12-27 15:44	PAINT	STAIR RAIL	METAL	RM 19	BROWN	Positive	3.40 ± 1.60	3.40 ± 1.60	< LOD : 5.25
134	2011-12-27 15:46	PAINT	WALL	CONCRETE	RM 21 A	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.20
135	2011-12-27 15:47	PAINT	WALL	CONCRETE	RM 21 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
136	2011-12-27 15:47	PAINT	WALL	CONCRETE	RM 21 C	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.35
137	2011-12-27 15:47	PAINT	WALL	CONCRETE	RM 21 D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.90
138	2011-12-27 15:48	PAINT	FLOOR	CONCRETE	RM 21 D	GREY	Negative	0.07 ± 0.05	0.07 ± 0.05	< LOD : 1.50
139	2011-12-27 15:50	PAINT	WALL	CONCRETE	RM 20 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
141	2011-12-27 15:51	PAINT	WALL	CONCRETE	RM 20 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
142	2011-12-27 15:51	PAINT	WALL	CONCRETE	RM 20 B	RED	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
143	2011-12-27 15:51	PAINT	WALL	CONCRETE	RM 20 C	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.35
144	2011-12-27 15:51	PAINT	WALL	CONCRETE	RM 20 D	WHITE	Negative	< LOD : 0.14	< LOD : 0.14	< LOD : 1.35
145	2011-12-27 15:53	PAINT	WALL	CONCRETE	RM 20 D	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.96
146	2011-12-27 15:54	PAINT	WALL	DRYWALL	RM 22 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.01
147	2011-12-27 15:54	PAINT	WALL	DRYWALL	RM 22 B	WHITE	Negative	0.80 ± 0.20	0.80 ± 0.20	< LOD : 0.90
148	2011-12-27 15:54	PAINT	WALL	DRYWALL	RM 22 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.10
149	2011-12-27 15:56	PAINT	WALL	CONCRETE	RM 23 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
150	2011-12-27 15:56	PAINT	WALL	CONCRETE	RM 23 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
151	2011-12-27 15:57	PAINT	WINDOW GUARD	METAL	RM 23 B	WHITE	Positive	3.30 ± 2.20	3.30 ± 2.20	< LOD : 9.45
152	2011-12-27 15:59	PAINT	WINDOW GUARD	METAL	RM 23 C	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 3.60
153	2011-12-27 15:59	PAINT	WINDOW GUARD	METAL	RM 23 C	WHITE	Positive	< LOD : 5.85	< LOD : 5.85	< LOD : 9.00
154	2011-12-27 16:00	PAINT	WALL	DRYWALL	RM 24 A	WHITE	Negative	< LOD : 0.14	< LOD : 0.14	< LOD : 2.28
155	2011-12-27 16:01	PAINT	TRIM	WOOD	RM 24 A	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.67
156	2011-12-27 16:01	PAINT	WALL	DRYWALL	RM 24 A	BLUE	Negative	< LOD : 0.18	< LOD : 0.18	< LOD : 2.02
157	2011-12-27 16:01	PAINT	WALL	DRYWALL	RM 24 B	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.65
158	2011-12-27 16:01	PAINT	WALL	DRYWALL	RM 24 C	BLUE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 2.16
159	2011-12-27 16:02	PAINT	WALL	DRYWALL	RM 24 D	BLUE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 2.05
160	2011-12-27 16:03	PAINT	WALL	CONCRETE	RM 26 A	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
161	2011-12-27 16:03	PAINT	WALL	CONCRETE	RM 26 B	BLUE	Negative	< LOD : 0.29	< LOD : 0.29	< LOD : 2.28
162	2011-12-27 16:03	PAINT	WALL	CONCRETE	RM 26 C	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.08
163	2011-12-27 16:04	PAINT	WALL	CONCRETE	RM 26 D	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
164	2011-12-27 16:04	PAINT	WALL	DRYWALL	RM 25 A	WHITE	Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 2.25
165	2011-12-27 16:04	PAINT	WALL	DRYWALL	RM 25 B	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.89
166	2011-12-27 16:05	PAINT	WALL	DRYWALL	RM 25 C	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.76
167	2011-12-27 16:08	PAINT	WALL	DRYWALL	RM 25 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.95
168	2011-12-27 16:08	PAINT	WALL	DRYWALL	RM 25 D	WHITE	Negative	0.80 ± 0.20	0.80 ± 0.20	< LOD : 0.90

ID#	Time	Type	Component	Substrate	Side	Color	Results	PbC	PbB	MnK
169	2011-12-27 16:08	PAINT	WALL	DRYWALL	RM 27 A	WHITE	Negative	0.50 ± 0.30	0.50 ± 0.30	< LOD : 1.80
170	2011-12-27 16:09	PAINT	WALL	DRYWALL	RM 27 B	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.94
171	2011-12-27 16:09	PAINT	WALL	DRYWALL	RM 27 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.93
172	2011-12-27 16:09	PAINT	WALL	DRYWALL	RM 27 D	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 2.06
173	2011-12-27 16:10	PAINT	WALL	DRYWALL	RM 28 A	BLUE	Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 2.13
174	2011-12-27 16:11	PAINT	WALL	DRYWALL	RM 28 B	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.91
175	2011-12-27 16:11	PAINT	WALL	DRYWALL	RM 28 C	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.95
176	2011-12-27 16:11	PAINT	WALL	DRYWALL	RM 28 D	BLUE	Negative	< LOD : 0.19	< LOD : 0.19	< LOD : 1.91
177	2011-12-27 16:12	PAINT	WALL	CONCRETE	RM 29 A	BEIGE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
178	2011-12-27 16:12	PAINT	WALL	CONCRETE	RM 29 B	BEIGE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
179	2011-12-27 16:13	PAINT	WALL	DRYWALL	RM 29 C	ORANGE	Negative	9.80 ± 0.10	9.80 ± 0.10	< LOD : 0.90
180	2011-12-27 16:13	PAINT	WALL	DRYWALL	RM 29 C	BROWN	Negative	0.60 ± 0.20	0.60 ± 0.20	< LOD : 1.05
181	2011-12-27 16:14	PAINT	WALL	DRYWALL	RM 29 D	BROWN	Negative	0.70 ± 0.20	0.70 ± 0.20	< LOD : 1.05
182	2011-12-27 16:14	PAINT	WALL	DRYWALL	RM 29 D	BEIGE	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 1.87
183	2011-12-27 16:14	PAINT	WALL	DRYWALL	RM 29 D	ORANGE	Negative	0.70 ± 0.10	0.70 ± 0.10	< LOD : 0.90
184	2011-12-27 16:15	PAINT	WALL	DRYWALL	RM 30 A	WHITE	Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 2.13
185	2011-12-27 16:16	PAINT	WALL	DRYWALL	RM 30 B	WHITE	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 1.70
186	2011-12-27 16:17	PAINT	WALL	CONCRETE	RM 30 B	BLACK	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.89
187	2011-12-27 16:18	PAINT	WALL	DRYWALL	RM 30 C	WHITE	Negative	< LOD : 0.25	< LOD : 0.25	< LOD : 2.07
188	2011-12-27 16:18	PAINT	WALL	DRYWALL	RM 30 C	BLACK	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.82
189	2011-12-27 16:18	PAINT	WALL	DRYWALL	RM 30 C	RED	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 2.16
190	2011-12-27 16:19	PAINT	WALL	WOOD	RM 30 C	BLACK	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.95
191	2011-12-27 16:19	PAINT	STAGE	WOOD	RM 30 C	BLACK	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.09
192	2011-12-27 16:20	PAINT	WALL	DRYWALL	RM 30 D	WHITE	Negative	< LOD : 0.29	< LOD : 0.29	< LOD : 2.03
193	2011-12-27 16:21	PAINT	WALL	CONCRETE	RM 30 D	BLACK	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.18
194	2011-12-27 16:37	PAINT	WALL	DRYWALL	RM 31 A	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.88
195	2011-12-27 16:38	PAINT	WALL	DRYWALL	RM 31 B	WHITE	Negative	< LOD : 0.14	< LOD : 0.14	< LOD : 2.09
196	2011-12-27 16:38	PAINT	WALL	DRYWALL	RM 31 C	WHITE	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 2.01
197	2011-12-27 16:38	PAINT	WALL	DRYWALL	RM 31 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.65
198	2011-12-27 16:38	PAINT	WALL	WOOD	RM 31 C	RED	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.50
199	2011-12-27 16:39	PAINT	TRIM	WOOD	RM 31 C	RED	Positive	1.70 ± 0.60	1.70 ± 0.60	< LOD : 2.85
200	2011-12-27 16:40	PAINT	WALL	WOOD	RM 31 D	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.95
201	2011-12-27 16:40	PAINT	DOOR	METAL	1	BROWN	Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 3.00
202	2011-12-27 16:40	PAINT	DOOR JAMB	METAL	1	BROWN	Positive	2.20 ± 1.10	2.20 ± 1.10	< LOD : 5.40
203	2011-12-27 16:41	PAINT	DOOR JAMB	METAL	2	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.19
204	2011-12-27 16:42	PAINT	DOOR JAMB	METAL	4	BROWN	Negative	< LOD : 0.22	< LOD : 0.22	< LOD : 3.75
205	2011-12-27 16:46	PAINT	DOOR JAMB	WOOD	5	WHITE	Negative	< LOD : 0.19	< LOD : 0.19	< LOD : 1.64
206	2011-12-27 16:46	PAINT	DOOR	WOOD	6	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.95
207	2011-12-27 16:47	PAINT	DOOR JAMB	METAL	7	BROWN	Negative	< LOD : 0.20	< LOD : 0.20	< LOD : 3.60
208	2011-12-27 16:48	PAINT	DOOR JAMB	METAL	8	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.45

Entry	Time	Type	Component	Substrate	Side	Color	Results	Pb	Pb	Pb
209	2011-12-27 16:49	PAINT	DOOR JAMB	METAL	11	BROWN	Positive	4.50 ± 2.40	4.50 ± 2.40	< LOD: 4.95
210	2011-12-27 16:51	PAINT	DOOR JAMB	METAL	12	BROWN	Negative	< LOD: 0.69	< LOD: 0.69	< LOD: 2.10
212	2011-12-27 16:52	PAINT	DOOR JAMB	METAL	13	BROWN	Positive	2.80 ± 1.20	1.80 ± 0.80	2.80 ± 1.20
213	2011-12-27 16:52	PAINT	DOOR JAMB	METAL	14	BROWN	Positive	2.20 ± 1.10	2.20 ± 1.10	< LOD: 3.90
214	2011-12-27 16:53	PAINT	DOOR JAMB	METAL	15	BROWN	Positive	1.60 ± 0.50	1.60 ± 0.50	2.90 ± 1.20
215	2011-12-27 16:53	PAINT	DOOR	METAL	15 (DUP)	BROWN	Negative	0.70 ± 0.30	0.70 ± 0.30	< LOD: 2.70
216	2011-12-27 16:54	PAINT	DOOR	METAL	15	BROWN	Positive	2.00 ± 1.00	2.00 ± 1.00	< LOD: 3.45
217	2011-12-27 16:55	PAINT	DOOR	METAL	16	BROWN	Positive	3.40 ± 1.60	3.40 ± 1.60	< LOD: 4.95
218	2011-12-27 16:55	PAINT	DOOR JAMB	METAL	16	BROWN	Positive	< LOD: 3.90	< LOD: 3.90	< LOD: 8.25
219	2011-12-27 16:56	PAINT	DOOR JAMB	METAL	17	GREY	Positive	2.60 ± 1.20	2.60 ± 1.20	< LOD: 4.20
220	2011-12-27 16:56	PAINT	DOOR	METAL	17	GREY	Positive	3.90 ± 1.70	3.90 ± 1.70	< LOD: 4.65
221	2011-12-27 16:58	PAINT	DOOR	METAL	47	BROWN	Positive	< LOD: 3.45	< LOD: 3.45	< LOD: 7.80
222	2011-12-27 16:59	PAINT	DOOR JAMB	METAL	47	BROWN	Positive	3.60 ± 2.20	1.40 ± 0.50	3.60 ± 2.20
223	2011-12-27 17:00	PAINT	DOOR JAMB	METAL	18	BROWN	Positive	< LOD: 4.05	< LOD: 4.05	< LOD: 4.65
224	2011-12-27 17:01	PAINT	DOOR JAMB	WOOD	19	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.80
225	2011-12-27 17:02	PAINT	DOOR JAMB	WOOD	20	BROWN	Negative	< LOD: 1.40	< LOD: 1.50	< LOD: 1.40
226	2011-12-27 17:03	PAINT	DOOR JAMB	METAL	21	BROWN	Positive	2.80 ± 1.20	2.60 ± 1.00	2.80 ± 1.20
227	2011-12-27 17:03	PAINT	DOOR	WOOD	21	BROWN	Negative	< LOD: 0.20	< LOD: 0.20	< LOD: 1.83
228	2011-12-27 17:04	PAINT	DOOR	WOOD	22	BROWN	Positive	2.80 ± 1.70	1.90 ± 1.00	2.80 ± 1.70
229	2011-12-27 17:04	PAINT	DOOR JAMB	WOOD	22	BROWN	Positive	2.70 ± 1.50	2.70 ± 1.50	< LOD: 4.50
230	2011-12-27 17:05	PAINT	DOOR JAMB	WOOD	23	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.92
231	2011-12-27 17:05	PAINT	DOOR	WOOD	23	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 2.09
232	2011-12-27 17:06	PAINT	DOOR	WOOD	24	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.27
233	2011-12-27 17:06	PAINT	DOOR JAMB	WOOD	24	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.83
234	2011-12-27 17:07	PAINT	DOOR	WOOD	24 (DUP)	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.15
235	2011-12-27 17:07	PAINT	DOOR	WOOD	25	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.64
236	2011-12-27 17:09	PAINT	DOOR	WOOD	27	BROWN	Positive	2.50 ± 1.30	2.50 ± 1.30	< LOD: 2.85
237	2011-12-27 17:09	PAINT	DOOR JAMB	METAL	27	BROWN	Positive	2.30 ± 1.00	2.30 ± 1.00	< LOD: 3.75
238	2011-12-27 17:11	PAINT	DOOR JAMB	WOOD	28	BROWN	Negative	< LOD: 0.09	< LOD: 0.09	< LOD: 1.80
239	2011-12-27 17:11	PAINT	DOOR JAMB	WOOD	29	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.25
240	2011-12-27 17:12	PAINT	DOOR JAMB	METAL	30	BROWN	Positive	2.10 ± 1.10	2.10 ± 1.10	< LOD: 3.00
241	2011-12-27 17:12	PAINT	DOOR	METAL	30	BROWN	Positive	2.50 ± 1.50	1.80 ± 0.80	2.50 ± 1.50
242	2011-12-27 17:14	PAINT	DOOR	WOOD	31	BLUE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.61
243	2011-12-27 17:14	PAINT	DOOR JAMB	METAL	31	BLUE	Positive	2.30 ± 0.80	2.30 ± 0.80	< LOD: 4.20
244	2011-12-27 17:15	PAINT	DOOR JAMB	METAL	32	BLUE	Positive	< LOD: 3.60	< LOD: 1.05	< LOD: 3.60
245	2011-12-27 17:16	PAINT	DOOR	METAL	33	BLUE	Positive	2.60 ± 1.50	2.60 ± 1.50	< LOD: 3.45
246	2011-12-27 17:17	PAINT	DOOR JAMB	METAL	33	BLUE	Positive	2.20 ± 1.20	2.20 ± 1.20	< LOD: 3.45
247	2011-12-27 17:18	PAINT	DOOR JAMB	METAL	34	BLUE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.22
248	2011-12-27 17:19	PAINT	DOOR JAMB	METAL	35	BLUE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.69
249	2011-12-27 17:20	PAINT	DOOR JAMB	METAL	36	BLUE	Positive	2.90 ± 1.90	1.20 ± 0.70	2.90 ± 1.90

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Index	Time	Type	Component	Substrate	Side	Color	Results	PAC	PHI	PPH
250	2011-12-27 17:20	PAINT	DOOR JAMB	METAL	37	BLUE	Positive	2.50 ± 1.10	2.20 ± 0.80	2.50 ± 1.10
251	2011-12-27 17:21	PAINT	DOOR JAMB	METAL	38	BLUE	Positive	< LOD: 5.25	< LOD: 4.80	< LOD: 4.80
252	2011-12-27 17:21	PAINT	DOOR	METAL	38	BLUE	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 3.30
253	2011-12-27 17:23	PAINT	DOOR	METAL	39	BLUE	Positive	< LOD: 5.10	1.80 ± 1.00	< LOD: 5.10
254	2011-12-27 17:23	PAINT	DOOR JAMB	METAL	39	BLUE	Positive	3.30 ± 2.10	1.10 ± 0.50	3.30 ± 2.10
255	2011-12-27 17:24	PAINT	DOOR JAMB (DUP)	METAL	40	GREY	Negative	< LOD: 0.40	< LOD: 0.40	< LOD: 3.32
256	2011-12-27 17:24	PAINT	DOOR JAMB	METAL	40	GREY	Positive	< LOD: 11.25	< LOD: 6.15	< LOD: 11.25
257	2011-12-27 17:25	PAINT	DOOR (DUP)	METAL	40	GREY	Negative	< LOD: 0.21	< LOD: 0.21	< LOD: 3.60
258	2011-12-27 17:25	PAINT	DOOR	METAL	40	GREY	Positive	< LOD: 9.60	< LOD: 9.60	< LOD: 17.55
259	2011-12-27 17:25	PAINT	DOOR	METAL	41	GREEN	Positive	7.00 ± 4.60	7.00 ± 4.60	< LOD: 10.95
260	2011-12-27 17:26	PAINT	DOOR JAMB	METAL	41	GREEN	Positive	< LOD: 5.25	< LOD: 5.25	< LOD: 16.35
261	2011-12-27 17:29	PAINT	DOOR JAMB	METAL	48	BLUE	Positive	2.00 ± 1.00	< LOD: 0.60	2.00 ± 1.00
262	2011-12-27 17:30	PAINT	DOOR JAMB	WOOD	49	BLACK	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.92
263	2011-12-27 17:31	PAINT	DOOR	WOOD	49	BLACK	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.03
264	2011-12-27 17:31	PAINT	TRIM	CONCRETE	BLDG 7 - A	BLUE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
265	2011-12-27 17:40	PAINT	WALL	CONCRETE	BLDG 7 - RM 1 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
266	2011-12-27 17:40	PAINT	WALL	CONCRETE	BLDG 7 - RM 1 B	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.91
267	2011-12-27 17:40	PAINT	WALL	CONCRETE	BLDG 7 - RM 1 C	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 2.03
268	2011-12-27 17:41	PAINT	WALL	CONCRETE	BLDG 7 - RM 1 D	WHITE	Negative	< LOD: 0.60	< LOD: 0.60	< LOD: 0.60
269	2011-12-27 17:42	PAINT	WALL	CONCRETE	BLDG 7 - RM 2 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.65
270	2011-12-27 17:43	PAINT	WALL	CONCRETE	BLDG 7 - RM 2 B	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 1.50
271	2011-12-27 17:43	PAINT	WALL	CONCRETE	BLDG 7 - RM 2 C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
272	2011-12-27 17:44	PAINT	WALL	CONCRETE	BLDG 7 - RM 2 D	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 2.09
273	2011-12-27 17:46	PAINT	WALL	CONCRETE	BLDG 7 - RM 3 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.02
275	2011-12-27 17:46	PAINT	WALL	CONCRETE	BLDG 7 - RM 3 C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
276	2011-12-27 17:47	PAINT	WALL	CONCRETE	BLDG 7 - RM 3 D	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 1.20
277	2011-12-27 17:47	PAINT	WALL	CONCRETE	BLDG 7 - RM 4 A	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 1.65
278	2011-12-27 17:47	PAINT	WALL	CONCRETE	BLDG 7 - RM 4 B	WHITE	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 1.80
279	2011-12-27 17:48	PAINT	WALL	DRYWALL	BLDG 7 - RM 4 C	WHITE	Positive	1.60 ± 0.60	0.50 ± 0.10	1.60 ± 0.60
280	2011-12-27 17:48	PAINT	WALL	DRYWALL	BLDG 7 - RM 4 D	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
281	2011-12-27 17:49	PAINT	WALL	CONCRETE	BLDG 7 - RM 5 A	WHITE	Negative	< LOD: 0.11	< LOD: 0.11	< LOD: 1.95
283	2011-12-27 17:49	PAINT	WALL	CONCRETE	BLDG 7 - RM 5 B	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
284	2011-12-27 17:49	PAINT	WALL	CONCRETE	BLDG 7 - RM 5 C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.35
285	2011-12-27 17:50	PAINT	WALL	CONCRETE	BLDG 7 - RM 5 D	WHITE	Negative	< LOD: 0.11	< LOD: 0.11	< LOD: 1.84
286	2011-12-27 17:50	PAINT	WALL	CONCRETE	BLDG 7 - BLDG 7 - RM 5 D	WHITE	Negative	< LOD: 0.16	< LOD: 0.16	< LOD: 1.05
288	2011-12-27 17:51	PAINT	WALL	CONCRETE	BLDG 7 - RM 6 A	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	1.00 ± 0.60
289	2011-12-27 17:51	PAINT	WALL	CONCRETE	BLDG 7 - RM 6 B	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
290	2011-12-27 17:52	PAINT	WALL	CONCRETE	BLDG 7 - RM 6 D	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
291	2011-12-27 17:52	PAINT	WALL	CONCRETE	BLDG 7 - RM 7 A	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 0.96
292	2011-12-27 17:53	PAINT	WALL	CONCRETE	BLDG 7 - RM 7 B	BROWN	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.25

McAlester Armory
319 East Polk Avenue
McAlester, Oklahoma 74502

Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
Oklahoma City, OK 73159

Index	Time	Type	Component	Substrate	Side	Color	Results	Pb/C	Pb1	PbK
293	2011-12-27 17:53	PAINT	WALL	CONCRETE	BLDG 7 - RM 7 C	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
294	2011-12-27 17:53	PAINT	WALL	CONCRETE	BLDG 7 - RM 7 D	BROWN	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.20
295	2011-12-27 17:54	PAINT	WALL	CONCRETE	BLDG 7 - RM 8 A	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
296	2011-12-27 17:54	PAINT	WALL	CONCRETE	BLDG 7 - RM 8 A	GREEN	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 1.20
297	2011-12-27 17:54	PAINT	WALL	CONCRETE	BLDG 7 - RM 8 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.17
298	2011-12-27 17:55	PAINT	WALL	CONCRETE	BLDG 7 - RM 8 C	GREEN	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 2.23
299	2011-12-27 17:55	PAINT	WALL	CONCRETE	BLDG 7 - RM 8 D	GREEN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
300	2011-12-27 17:56	PAINT	WALL	CONCRETE	BLDG 7 - RM 9 A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.16
301	2011-12-27 17:56	PAINT	WALL	CONCRETE	BLDG 7 - RM 9 B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
302	2011-12-27 17:56	PAINT	WALL	CONCRETE	BLDG 7 - RM 9 C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.17
303	2011-12-27 17:57	PAINT	WALL	DRYWALL	BLDG 7 - RM 10 A	BLUE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.95
304	2011-12-27 17:57	PAINT	WALL	DRYWALL	BLDG 7 - RM 10 B	BLUE	Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 1.71
305	2011-12-27 17:58	PAINT	WALL	DRYWALL	BLDG 7 - RM 10 C	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.79
306	2011-12-27 17:58	PAINT	WALL	DRYWALL	BLDG 7 - RM 10 D	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.97
307	2011-12-27 17:59	PAINT	WALL	CONCRETE	BLDG 7 - RM 11 A	GREY	Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 1.35
308	2011-12-27 17:59	PAINT	WALL	CONCRETE	BLDG 7 - RM 11 B	GREY	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 1.20
309	2011-12-27 18:00	PAINT	WALL	CONCRETE	BLDG 7 - RM 11 C	GREY	Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.20
310	2011-12-27 18:00	PAINT	WALL	CONCRETE	BLDG 7 - RM 11 D	GREY	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.84
311	2011-12-27 18:01	PAINT	WALL	CONCRETE	BLDG 7 - RM 12 A	BEIGE	Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 2.27
312	2011-12-27 18:01	PAINT	WALL	CONCRETE	BLDG 7 - RM 12 B	BEIGE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 2.18
313	2011-12-27 18:02	PAINT	WALL	CONCRETE	BLDG 7 - RM 12 C	BEIGE	Negative	0.70 # 0.10	0.70 # 0.10	1.10 # 0.60
314	2011-12-27 18:02	PAINT	WALL	CONCRETE	BLDG 7 - RM 12 D	BEIGE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.90
315	2011-12-27 18:06	PAINT	DOOR	METAL	BLDG 7 - 1	BLUE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 3.32
316	2011-12-27 18:06	PAINT	DOOR JAMB	METAL	BLDG 7 - 1	BLUE	Negative	< LOD : 0.36	< LOD : 0.36	< LOD : 3.54
317	2011-12-27 18:08	PAINT	DOOR JAMB	METAL	BLDG 7 - 2	BROWN	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 3.58
320	2011-12-27 18:08	PAINT	DOOR	METAL	BLDG 7 - 2	BROWN	Negative	< LOD : 0.60	< LOD : 0.60	< LOD : 3.45
321	2011-12-27 18:10	PAINT	DOOR	METAL	BLDG 7 - 3	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.97
322	2011-12-27 18:10	PAINT	DOOR	METAL	BLDG 7 - 3	BROWN	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 3.55
323	2011-12-27 18:11	PAINT	DOOR JAMB	METAL	BLDG 7 - 4	BROWN	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 3.64
324	2011-12-27 18:11	PAINT	DOOR	METAL	BLDG 7 - 4	BROWN	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 3.06
325	2011-12-27 18:12	PAINT	DOOR JAMB	METAL	BLDG 7 - 5	BROWN	Negative	< LOD : 0.60	< LOD : 0.60	< LOD : 3.72
326	2011-12-27 18:13	PAINT	DOOR	METAL	BLDG 7 - 5	BROWN	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 3.30
327	2011-12-27 18:13	PAINT	DOOR JAMB	METAL	BLDG 7 - 6	BROWN	Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 3.50
328	2011-12-27 18:13	PAINT	DOOR	METAL	BLDG 7 - 6	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.15
330	2011-12-27 18:15	PAINT	DOOR	METAL	BLDG 7 - 7	BROWN	Negative	< LOD : 0.20	< LOD : 0.20	< LOD : 3.03
331	2011-12-27 18:17	PAINT	DOOR JAMB	METAL	BLDG 7 - 9	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.49
332	2011-12-27 18:17	PAINT	DOOR	METAL	BLDG 7 - 9	BROWN	Negative	< LOD : 0.20	< LOD : 0.20	< LOD : 3.38
333	2011-12-27 18:17	PAINT	DOOR	METAL	BLDG 7 - 10	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.20
334	2011-12-27 18:17	PAINT	DOOR JAMB	METAL	BLDG 7 - 10	BROWN	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 3.75
335	2011-12-27 18:18	PAINT	DOOR JAMB	METAL	BLDG 7 - 10	BROWN	Negative	< LOD : 0.05	< LOD : 0.05	< LOD : 3.53

Index	Time	Type	Component	Substrate	Side	Color	Results	PLC	PLI	PLK
336	2011-12-27 18:18	PAINT	DOOR JAMB	METAL	BLDG 7-11	BROWN	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 3.52
337	2011-12-27 18:18	PAINT	DOOR	METAL	BLDG 7-11	BROWN	Negative	< LOD: 0.10	< LOD: 0.10	< LOD: 2.95
338	2011-12-27 18:21	PAINT	DOOR	METAL	BLDG 7-13	BROWN	Negative	< LOD: 0.09	< LOD: 0.09	< LOD: 2.82
339	2011-12-27 18:21	PAINT	DOOR JAMB	METAL	BLDG 7-13	BROWN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.29
340	2011-12-27 18:22	PAINT	DOOR JAMB	METAL	BLDG 7-14	WHITE	Negative	< LOD: 0.07	< LOD: 0.07	< LOD: 3.45
341	2011-12-27 18:22	PAINT	DOOR	METAL	BLDG 7-14	WHITE	Negative	< LOD: 0.20	< LOD: 0.20	< LOD: 2.85
342	2011-12-27 18:23	PAINT	DOOR	METAL	BLDG 7-15	BEIGE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.93
343	2011-12-27 18:24	PAINT	DOOR JAMB	METAL	BLDG 7-15	BEIGE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.21
344	2011-12-27 18:24	PAINT	DOOR JAMB	METAL	BLDG 7-16	BROWN	Negative	< LOD: 0.14	< LOD: 0.14	< LOD: 2.71
345	2011-12-27 18:24	PAINT	DOOR	METAL	BLDG 7-16	BROWN	Negative	< LOD: 0.17	< LOD: 0.17	< LOD: 2.88
346	2011-12-27 18:35	PAINT	DOOR GUARD	METAL	BLDG 3-A	YELLOW	Positive	< LOD: 10.05	< LOD: 10.05	< LOD: 17.70
347	2011-12-27 18:38	PAINT	WALL	CONCRETE	BLDG 3-RM 1 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.05
348	2011-12-27 18:39	PAINT	WALL	CONCRETE	BLDG 3-RM 1 C	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
349	2011-12-27 18:39	PAINT	WALL	CONCRETE	BLDG 3-RM 4 A	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.95
350	2011-12-27 18:39	PAINT	WALL	CONCRETE	BLDG 3-RM 4 B	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
351	2011-12-27 18:39	PAINT	WALL	CONCRETE	BLDG 3-RM 4 C	WHITE	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 2.06
352	2011-12-27 18:40	PAINT	WALL	CONCRETE	BLDG 3-RM 4 D	WHITE	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
353	2011-12-27 18:40	PAINT	DUCT	METAL	BLDG 3-RM 4 D	WHITE	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 2.21
354	2011-12-27 18:41	PAINT	DUCT	METAL	BLDG 3-RM 5 A	YELLOW	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.95
355	2011-12-27 18:41	PAINT	DUCT	METAL	BLDG 3-RM 5 B	YELLOW	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.20
356	2011-12-27 18:41	PAINT	DUCT	METAL	BLDG 3-RM 5 C	YELLOW	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 1.96
357	2011-12-27 18:42	PAINT	DUCT	METAL	BLDG 3-RM 5 D	YELLOW	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 2.14
358	2011-12-27 18:43	PAINT	OVERHEAD DOOR TRACK	METAL	BLDG 3-RM 7 A	GREEN	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 3.80
359	2011-12-27 18:44	PAINT	WALL	METAL	BLDG 3-RM 7 B	GREEN	Negative	< LOD: 0.04	< LOD: 0.04	< LOD: 3.30
360	2011-12-27 18:44	PAINT	WALL	METAL	BLDG 3-RM 7 B	BLACK	Negative	< LOD: 0.03	< LOD: 0.03	< LOD: 0.99
361	2011-12-27 18:47	PAINT	DOOR	METAL	BLDG 3-1	BROWN	Negative	< LOD: 0.18	< LOD: 0.18	< LOD: 3.14
362	2011-12-27 18:47	PAINT	DOOR JAMB	METAL	BLDG 3-1	BROWN	Negative	< LOD: 0.30	< LOD: 0.30	< LOD: 3.59
363	2011-12-27 18:48	PAINT	DOOR JAMB	METAL	BLDG 3-5	BROWN	Negative	< LOD: 0.31	< LOD: 0.31	< LOD: 3.32
364	2011-12-27 18:48	PAINT	DOOR JAMB	METAL	BLDG 3-4	BROWN	Negative	< LOD: 0.14	< LOD: 0.14	< LOD: 3.09
365	2011-12-27 18:48	PAINT	DOOR	METAL	BLDG 3-4	BROWN	Negative	0.40 ± 0.20	0.40 ± 0.20	< LOD: 3.03
366	2011-12-27 18:49	PAINT	DOOR	METAL	BLDG 3-5	BROWN	Negative	< LOD: 0.19	< LOD: 0.19	< LOD: 3.03
367	2011-12-27 18:49	PAINT	DOOR JAMB	METAL	BLDG 3-5	BROWN	Negative	< LOD: 0.11	< LOD: 0.11	< LOD: 3.48
368	2011-12-27 18:49	PAINT	DOOR JAMB	METAL	BLDG 3-5	BROWN	Negative	< LOD: 0.06	< LOD: 0.06	< LOD: 3.45
369	2011-12-27 18:50	PAINT	DOOR	METAL	BLDG 3-5	BROWN	Negative	< LOD: 0.23	< LOD: 0.23	< LOD: 3.16
370	2011-12-27 18:50	PAINT	DOOR	METAL	BLDG 3-6	BROWN	Negative	< LOD: 0.24	< LOD: 0.24	< LOD: 3.12
371	2011-12-27 18:50	PAINT	DOOR JAMB	METAL	BLDG 3-6	BROWN	Negative	< LOD: 0.15	< LOD: 0.15	< LOD: 4.05
372	2011-12-27 18:51	PAINT	DOOR	METAL	BLDG 3-7	BROWN	Negative	< LOD: 0.12	< LOD: 0.12	< LOD: 3.21
373	2011-12-27 18:51	PAINT	DOOR	METAL	BLDG 3-7	BROWN	Negative	< LOD: 0.12	< LOD: 0.12	< LOD: 3.60
374	2011-12-27 18:52	PAINT	WALL	CONCRETE	BLDG 5-A	WHITE	Negative	< LOD: 0.05	< LOD: 0.05	< LOD: 1.20
375	2011-12-27 18:55	PAINT	WALL	CONCRETE	BLDG 5-B	WHITE	Negative	< LOD: 0.08	< LOD: 0.08	< LOD: 1.20

ID#	Date	Type	Component	Substrate	Side	Color	Results	Pb	Pb	Pb
376	2011-12-27 18:54	PAINT	SOFFIT	WOOD	BLDG 5 - B	BROWN	Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 1.99
377	2011-12-27 18:54	PAINT	TRIM	WOOD	BLDG 5 - B	BROWN	Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 2.25
378	2011-12-27 18:55	PAINT	TRIM	WOOD	BLDG 5 - C	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.89
379	2011-12-27 18:55	PAINT	TRIM	WOOD	BLDG 5 - D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.18
380	2011-12-27 18:56	PAINT	EGOR	METAL	BLDG 5 - 1 D	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.74
381	2011-12-27 18:56	PAINT	DOOR JAMB	METAL	BLDG 5 - 1 D	BROWN	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 3.06
383	2011-12-27 18:58	PAINT	SIDING	TRANSITE	BLDG - 4 - A	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.49
384	2011-12-27 18:59	PAINT	TRIM	WOOD	BLDG - 4 - A	WHITE	Negative	< LOD : 0.75	< LOD : 0.75	< LOD : 2.25
385	2011-12-27 19:00	PAINT	SOFFIT	TRANSITE	BLDG - 4 - A	WHITE	Positive	2.50 ± 1.20	2.50 ± 1.20	< LOD : 3.90
386	2011-12-27 19:00	PAINT	DOOR	WOOD	BLDG 4 - A	WHITE	Negative	< LOD : 0.60	< LOD : 0.60	< LOD : 2.32
387	2011-12-27 19:01	PAINT	FRACK	METAL	BLDG - 4 - A	WHITE	Positive	2.70 ± 1.20	2.70 ± 1.20	< LOD : 4.35
388	2011-12-27 19:02	PAINT	SIDING	TRANSITE	BLDG - 4 - B	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.77
389	2011-12-27 19:02	PAINT	SIDING	TRANSITE	BLDG - 4 - C	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.44
390	2011-12-27 19:02	PAINT	SIDING	TRANSITE	BLDG - 4 - D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.44
391	2011-12-27 19:03	PAINT	OVERHEAD DOOR 1	WOOD	BLDG - 4 - RM 1 A	WHITE	Positive	3.80 ± 2.20	3.80 ± 2.20	< LOD : 7.50
392	2011-12-27 19:04	PAINT	OVERHEAD DOOR 2	WOOD	BLDG - 4 - RM 1 A	WHITE	Positive	4.00 ± 2.40	4.00 ± 2.40	< LOD : 5.85
393	2011-12-27 19:04	PAINT	OVERHEAD DOOR 3	WOOD	BLDG - 4 - RM 2 A	WHITE	Positive	2.20 ± 0.80	2.20 ± 0.80	< LOD : 2.85
394	2011-12-27 19:05	PAINT	WALL	WOOD	BLDG - 4 - RM 2 B	WHITE	Positive	4.00 ± 2.20	4.00 ± 2.20	< LOD : 6.90
395	2011-12-27 19:05	PAINT	WALL	WOOD	BLDG - 4 - RM 2 C	WHITE	Positive	2.80 ± 1.50	2.80 ± 1.50	< LOD : 5.55
396	2011-12-27 19:06	PAINT	WALL	WOOD	BLDG - 4 - RM 2 D	WHITE	Positive	3.60 ± 1.90	3.60 ± 1.90	< LOD : 6.90
397	2011-12-27 19:07	PAINT	CEILING	WOOD	BLDG - 4 - RM 2	WHITE	Positive	2.10 ± 0.90	2.10 ± 0.90	< LOD : 3.00
398	2011-12-27 19:09	PAINT	WALL	CONCRETE	BLDG 6 - A	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 2.64
399	2011-12-27 19:10	PAINT	WALL	CONCRETE	BLDG 6 - B	WHITE	Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 2.44
400	2011-12-27 19:10	PAINT	WALL	CONCRETE	BLDG 6 - C	WHITE	Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 1.38
401	2011-12-27 19:10	PAINT	WALL	CONCRETE	BLDG 6 - D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.77
402	2011-12-27 19:10	PAINT	TRIM	CONCRETE	BLDG 6 - D	WHITE	Positive	2.40 ± 1.00	2.40 ± 1.00	< LOD : 4.95
403	2011-12-27 19:11	PAINT	TRIM	METAL	BLDG 6 - D	WHITE	Positive	2.20 ± 0.70	2.20 ± 0.70	< LOD : 4.05
404	2011-12-27 19:12	PAINT	DOOR	METAL	BLDG 6 - A	WHITE	Positive	1.80 ± 0.70	1.80 ± 0.70	< LOD : 2.85
405	2011-12-27 19:14	PAINT	WALL	TRANSITE	BLDG 6 - RM2 D	WHITE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.12
406	2011-12-27 19:16	PAINT	PARKING STRIPE	CONCRETE	A	YELLOW	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
407	2011-12-27 19:16	PAINT	PARKING STRIPE	CONCRETE	A	BLUE	Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 2.39
408	2011-12-27 19:17	PAINT			CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	< LOD : 0.60
409	2011-12-27 19:18	PAINT			CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	< LOD : 0.60
410	2011-12-27 19:18	PAINT			CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	< LOD : 0.57

Marshall Environmental Management, Inc.
Chain Of Custody

2029339

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0191-LBP-122711		Client/Company				Client/Company			
Project Name				Attention Title				Attention Title			
Project Address				Invoice To Address				Address			
Site Contact				Phone Number				Phone Number			
Phone Number				Fax Number				Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address				E-mail Address			

Lab Id	Sample Date	Field Id	Sample Description (Floor tile, Mastic, Dry-wall, Etc.)	Sample Location (Lobby, Ceiling, NW Corner)	Sample Condition	Sample Matrix	Sample Media	Volume/ Area	Unit	Analysis/Parameters
1	12/27/2011	1	Room 1			Dust	Wipe	108in ²		Total Pb
2	12/27/2011	2	Room 2			Dust	Wipe	108in ²		Total Pb
3	12/27/2011	3	Room 3			Dust	Wipe	108in ²		Total Pb
4	12/27/2011	4	Room 4			Dust	Wipe	108in ²		Total Pb
5	12/27/2011	5	Room 5			Dust	Wipe	108in ²		Total Pb
6	12/27/2011	6	Room 6			Dust	Wipe	108in ²		Total Pb
7	12/27/2011	7	Room 7			Dust	Wipe	108in ²		Total Pb
8	12/27/2011	8	Room 8			Dust	Wipe	108in ²		Total Pb
9	12/27/2011	9	Room 9			Dust	Wipe	108in ²		Total Pb
10	12/27/2011	10	Room 10			Dust	Wipe	108in ²		Total Pb

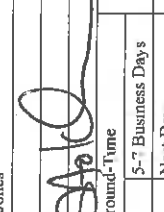
Collected By:	Jacob Jones	Date:	12/27/2011	Relinquished By:	Jacob Jones	Date:	12/28/2011
Received By:	<i>[Signature]</i>	Time:	12:00	Relinquished By:	<i>[Signature]</i>	Time:	12:45
Turn-Around-Time	Standard	5-7 Business Days		Method of Shipment			
	Rush	Nest Day					
	Immediate	Same Day					

Matrix	Media	Count
MV	MP	ST
Microvacuum	Nold Plate	Spore Trap
Aqueous	Bulk	Sludge
Soil	Soil	Soil
Solid/Bulk	Page	Page

Marshall Environmental Management, Inc. Chain Of Custody

202939

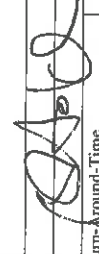
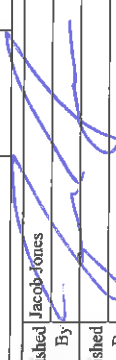
PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0191-LBP-122711		Client/Company				Client/Company			
Project Name				Attention Title				Attention Title			
Project Address				Invoice To Address				Address			
Site Contact				Phone Number				Phone Number			
Phone Number				Fax Number				Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address				E-mail Address			
Lab Id	Sample Date	Field Id.	Sample Description (Floor tile, Mascac, Drywall, Etc.)	Sample Location (Lobby, Ceiling, NW Corner)	Sample Condition	Sample Matrix	Sample Media	Volume/ Area	Unit	Analysts/ Parameters	
11	12/27/2011	11	Room 11			Dust	Wipe	108in ²		Total Pb	
12	12/27/2011	12	Room 12			Dust	Wipe	108in ²		Total Pb	
13	12/27/2011	13	Room 13			Dust	Wipe	108in ²		Total Pb	
14	12/27/2011	14	Room 14			Dust	Wipe	108in ²		Total Pb	
15	12/27/2011	15	Room 15			Dust	Wipe	108in ²		Total Pb	
16	12/27/2011	16	Room 16			Dust	Wipe	108in ²		Total Pb	
17	12/27/2011	17	Room 17			Dust	Wipe	108in ²		Total Pb	
18	12/27/2011	18	Room 18			Dust	Wipe	108in ²		Total Pb	
19	12/27/2011	19	Room 19			Dust	Wipe	108in ²		Total Pb	
20	12/27/2011	20	Room 20			Dust	Wipe	108in ²		Total Pb	

Collected By		Jacob Jones		Date		12/27/2011		Date		12/28/2011	
Received By				Time				Time		12:45	
Standard		5-7 Business Days		Relinquished By		Jacob Jones		Relinquished By			
Rush		Next Day		Relinquished		12-28-11		Relinquished		12-28-11	
Immediate		Same Day		By		12/27		By		12/27	
Condition Upon Receipt				Method of Shipment				Matrix		Media	
Sample Notes				Micro-Vacuum		2		Mold Plate		2	
				Solid/Bulk		Page		Spore Trap		of	
				Sludge				Air		6	
				Soil				Aqueous		Swab	
				Bulk				Bulk		Tape-Lift	

Marshall Environmental Management, Inc. Chain Of Custody

20 2939

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0191-LBP-122711		Client/Company				Client/Company			
Project Name				Attention Title				Attention Title			
Project Address				Invoice To Address				Address			
Site Contact				Phone Number				Phone Number			
Phone Number				Fax Number				Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address				E-mail Address			
Lab Id	Sample Date	Field Id	Sample Description (Floor tile, Mastic, Dry wall, Etc.)	Sample Location (Lobby-Corridor-NW Corner)	Sample Condition	Sample Matrix	Sample Media	Volume/ Area	Unit	Analysis/ Parameters	
21	12/27/2011	21	Room 21			Dust	Wipe	108in ²		Total Pb	
22	12/27/2011	22	Room 22			Dust	Wipe	108in ²		Total Pb	
23	12/27/2011	23	Room 23			Dust	Wipe	108in ²		Total Pb	
24	12/27/2011	24	Room 24			Dust	Wipe	108in ²		Total Pb	
25	12/27/2011	25	Room 25			Dust	Wipe	108in ²		Total Pb	
26	12/27/2011	26	Room 26			Dust	Wipe	108in ²		Total Pb	
27	12/27/2011	27	Room 27			Dust	Wipe	108in ²		Total Pb	
28	12/27/2011	28	Room 28			Dust	Wipe	108in ²		Total Pb	
29	12/27/2011	29	Room 29			Dust	Wipe	108in ²		Total Pb	
30	12/27/2011	30	Room 30			Dust	Wipe	108in ²		Total Pb	

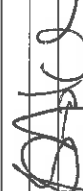
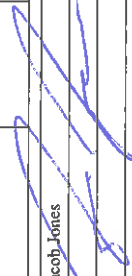
Collected By	Jacob Jones	Date	12/27/2011	Relinquished By	Jacob Jones	Date	12/28/2011
Received By		Time		Relinquished By		Time	12:45
Turn-Around-Time		Standard 5-7 Business Days		Condition Upon Receipt		Method of Shipment	
Rush		Next Day		Sample Notes			
Immediate		Same Day					

Matrix		Media	
Air	12.28.2011	MV	MP
Aqueous		ST	SW
Bulk		TL	TL
Sludge		Mold Plate	
Soil		Micro-Vacuum	
Solid/Bulk		Spore Trap	
Page	3	of 6	

Marshall Environmental Management, Inc.
Chain Of Custody

202939

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification	0191-LBP-122711			Client/Company				Client/Company			
Project Name				Attention Title				Attention Title			
Project Address				Invoice To Address				Address			
Site Contact				Phone Number				Phone Number			
Phone Number				Fax Number				Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address				E-mail Address			
Lab Id.	Sample Date	Field Id.	Sample Description (Floor tile, Mastec, Dry wall Etc.)	Sample Location (Lobby-Ceiling-NW Corner)	Sample Condition	Sample Matrix	Sample Media	Volume/Area	Unit	Analysis/Parameters	
31	12/27/2011	30-E	Room 30	East		Dust	Wipe	1 ft ²		Total Pb	
32	12/27/2011	30-C	Room 30	Center		Dust	Wipe	1 ft ²		Total Pb	
33	12/27/2011	30-W	Room 30	West		Dust	Wipe	1 ft ²		Total Pb	
34	12/27/2011	31	Room 31			Dust	Wipe	108in ²		Total Pb	
35	12/27/2011	32	Stage			Dust	Wipe	108in ²		Total Pb	
36	12/27/2011	33	Building 2 - Room 1			Dust	Wipe	108in ²		Total Pb	
37	12/27/2011	34	Building 3 - Room 1			Dust	Wipe	108in ²		Total Pb	
38	12/27/2011	35	Building 3 - Room 2			Dust	Wipe	108in ²		Total Pb	
39	12/27/2011	36	Building 3 - Room 3			Dust	Wipe	108in ²		Total Pb	
40	12/27/2011	37	Building 3 - Room 4			Dust	Wipe	108in ²		Total Pb	

Collected By	Jacob Jones	Date	12/27/2011	Relinquished By	Jacob Jones	Date	12/28/2011
Received By		Time	12:28-1	Relinquished By		Time	12:45
Turn-Around-Time	Standard	5-7 Business Days					
	Rush	Nest Day					
	Immediate	Same Day					
Condition Upon Receipt				Method of Shipment			
Sample Notes				Page 4 of 6			

Marshall Environmental Management, Inc.
Chain Of Custody

2013

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0191-LBP-122711		Client/Company		Client/Company		Attention Title		Attention Title	
Project Name				Invoice To Address		Invoice To Address		Phone Number		Phone Number	
Project Address				Fax Number		Fax Number		Mobile Number		Mobile Number	
Site Contact				E-mail Address		E-mail Address					
Lab Id.	Sample Date	Field Id.	Sample Description (Floor tile, Mastix, Drywall, Etc.)	Sample Location (Lobby-Ceiling-NW Corner)	Sample Condition	Sample Matrix	Sample Media	Volume/ Area	Unit	Analysis/Parameters	
41	12/27/2011	38	Building 3 - Room 5			Dust	Wipe	108in ²		Total Pb	
42	12/27/2011	39	Building 3 - Room 6			Dust	Wipe	108in ²		Total Pb	
43	12/27/2011	40	Building 3 - Room 7			Dust	Wipe	108in ²		Total Pb	
44	12/27/2011	41	Building 4 - Room 1			Dust	Wipe	108in ²		Total Pb	
45	12/27/2011	42	Building 4 - Room 2			Dust	Wipe	108in ²		Total Pb	
46	12/27/2011	43	Building 5 - Room 1			Dust	Wipe	108in ²		Total Pb	
47	12/27/2011	44	Building 7 - Room 1			Dust	Wipe	108in ²		Total Pb	
48	12/27/2011	45	Building 7 - Room 2			Dust	Wipe	108in ²		Total Pb	
49	12/27/2011	46	Building 7 - Room 3			Dust	Wipe	108in ²		Total Pb	
50	12/27/2011	47	Building 7 - Room 4			Dust	Wipe	108in ²		Total Pb	

Collected By:	Jacob Jones	Date:	12/27/2011	Time:		Relinquished By:	Jacob Jones	Date:	12/28/2011	Time:	12:45
Received By:	<i>[Signature]</i>	Date:	12-28-11	Time:	12:45	Relinquished By:	<i>[Signature]</i>	Date:		Time:	
Turn-Around-Time	Standard	5-7 Business Days									
	Rush	Next Day									
	Immediate	Same Day									
Condition Upon Receipt			Method of Shipment								
Sample Notes											

Matrix	MV	MP	ST	SW	TL
Air					
Aqueous					
Bulk					
Sludge					
Soil					
Solid/Bulk					
Page	5				6

Marshall Environmental Management, Inc. Chain Of Custody

202938

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification		0191-LBP-122711		Client/Company				Client/Company			
Project Name				Attention Title				Attention Title			
Project Address				Invoice To Address				Address			
Site Contact				Phone Number				Phone Number			
Phone Number				Fax Number				Fax Number			
Mobile Number				Mobile Number				Mobile Number			
email				E-mail Address				E-mail Address			
Lab Id	Sample Date	Field Id	Sample Description (Floor tile, Mastic, Dry wall, Etc.)	Sample Location (Lobby-Ceiling-h/W. Corner)	Sample Condition	Sample Matrix	Sample Media	Volume/ Area	Unit	Analysts/ Parameters	
51	12/27/2011	48	Building 7 - Room 5			Dust	Wipe	108in ²		Total Pb	
52	12/27/2011	49	Building 7 - Room 6			Dust	Wipe	108in ²		Total Pb	
53	12/27/2011	50	Building 7 - Room 7			Dust	Wipe	108in ²		Total Pb	
54	12/27/2011	51	Building 7 - Room 8			Dust	Wipe	108in ²		Total Pb	
55	12/27/2011	52	Building 7 - Room 9			Dust	Wipe	108in ²		Total Pb	
56	12/27/2011	53	Building 7 - Room 10			Dust	Wipe	108in ²		Total Pb	

Collected By:	Jacob Jones	Relinquished By:	Jacob Jones	Date:	12/27/2011	Date:	12/28/2011
Received By:		Relinquished By:		Time:	12:45	Time:	12:45
Standard	5-7 Business Days	Condition Upon Receipt					
Rush	Next Day	Method of Shipment					
Immediate	Same Day	Sample Notes					



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 202939
Date Received: 12/28/11
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 12/29/2011

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159
Acct. No.: A331
Project: N/A
Location: N/A
Project No.: 0191-LBP-122711

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	118	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
002	2	Wipe	Lead	21.9	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
003	3	Wipe	Lead	48.9	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
004	4	Wipe	Lead	42.4	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
005	5	Wipe	Lead	48.7	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
006	6	Wipe	Lead	136	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
007	7	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
008	8	Wipe	Lead	23.6	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
009	9	Wipe	Lead	105	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
010	10	Wipe	Lead	434	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
011	11	Wipe	Lead	488	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
012	12	Wipe	Lead	69.1	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
013	13	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
014	14	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
015	15	Wipe	Lead	86.9	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
016	16	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
017	17	Wipe	Lead	94.8	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 202939
Date Received: 12/28/11
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 12/29/2011

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159
Acct. No.: A331
Project: N/A
Location: N/A
Project No.: 0191-LBP-122711

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	73.2	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
019	19	Wipe	Lead	305	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
020	20	Wipe	Lead	194	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
021	21	Wipe	Lead	93.1	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
022	22	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
023	23	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
024	24	Wipe	Lead	40.5	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
025	25	Wipe	Lead	150	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
026	26	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
027	27	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
028	28	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
029	29	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
030	30	Wipe	Lead	107	16	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
031	30-E	Wipe	Lead	397	16	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
032	30-C	Wipe	Lead	31.4	16	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
033	30-W	Wipe	Lead	24.1	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
034	31	Wipe	Lead	80.0	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 202939
Date Received: 12/28/11
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 12/29/2011

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159
Acct. No.: A331
Project: N/A
Location: N/A
Project No.: 0191-LBP-122711

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	32	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
036	33	Wipe	Lead	55.6	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
037	34	Wipe	Lead	45.7	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
038	35	Wipe	Lead	75.1	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
039	36	Wipe	Lead	56.2	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
040	37	Wipe	Lead	105	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
041	38	Wipe	Lead	293	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
042	39	Wipe	Lead	443	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
043	40	Wipe	Lead	193	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
044	41	Wipe	Lead	1,750	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
045	42	Wipe	Lead	374	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
046	43	Wipe	Lead	169	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
047	44	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
048	45	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
049	46	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
050	47	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
051	48	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)

Note: Sample results have not been corrected for blank values.

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EPA Method 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 202939
Date Received: 12/28/11
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 12/29/2011

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159
Acct. No.: A331
Project: N/A
Location: N/A
Project No.: 0191-LBP-122711

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
052	49	Wipe	Lead	38.9	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
053	50	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
054	51	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
055	52	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)
056	53	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	12/29/11 12:15	W EPA 7420 (1)

Authorized Signature: _____

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7420 (1) = EPA 600/R-93/200 Preparation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 9499
Test: Lead

Date: 12/29/2011
Matrix: Wipe

Lab Number: 202939
Approved By: Benton Miller
Date Approved: 12/29/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.7	5.5
FCV	4.5	4.9	5.5
ICV	0.8	1.2	1.2
RLVS	0.256	0.293	0.384

Duplicate Data:

Recovery Data:

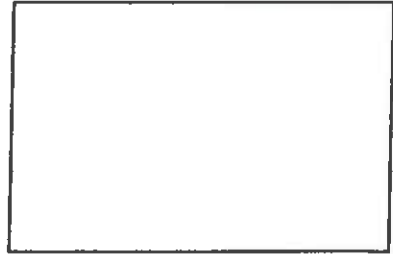
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	5.481	5.292	96.6	5.305	96.8	0.2
MS-W2	0.000	5.427	5.744	105.8	5.678	104.6	1.2
MS-W1	0.000	5.460	4.919	90.1	4.916	90.0	0.1

Authorized Signature: _____

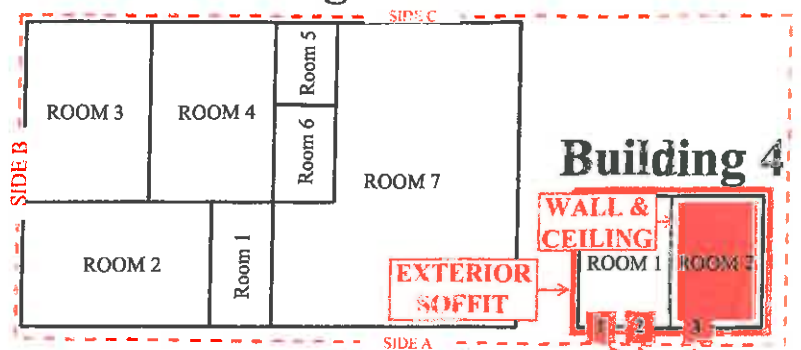

Benton Miller, Analyst

McAlester Armory Auxiliary Buildings Miscellaneous Lead-Base Painted Surfaces

Building 2



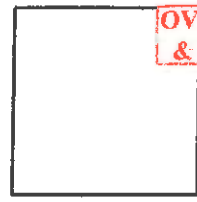
Building 3



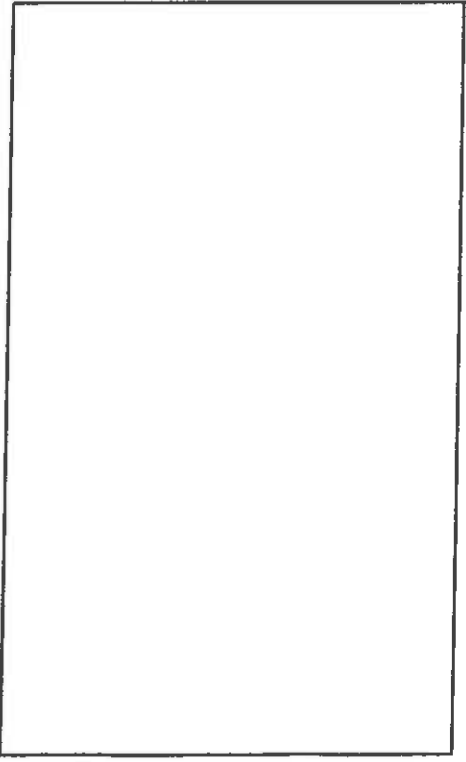
Building 4



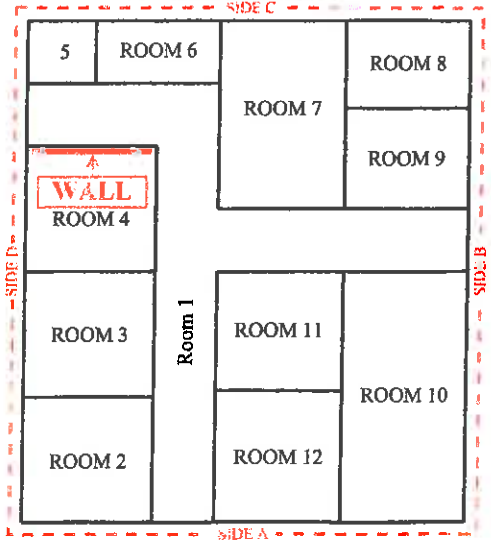
Building 5



**Building 1
(Main Armory)**



Building 7



Building 6

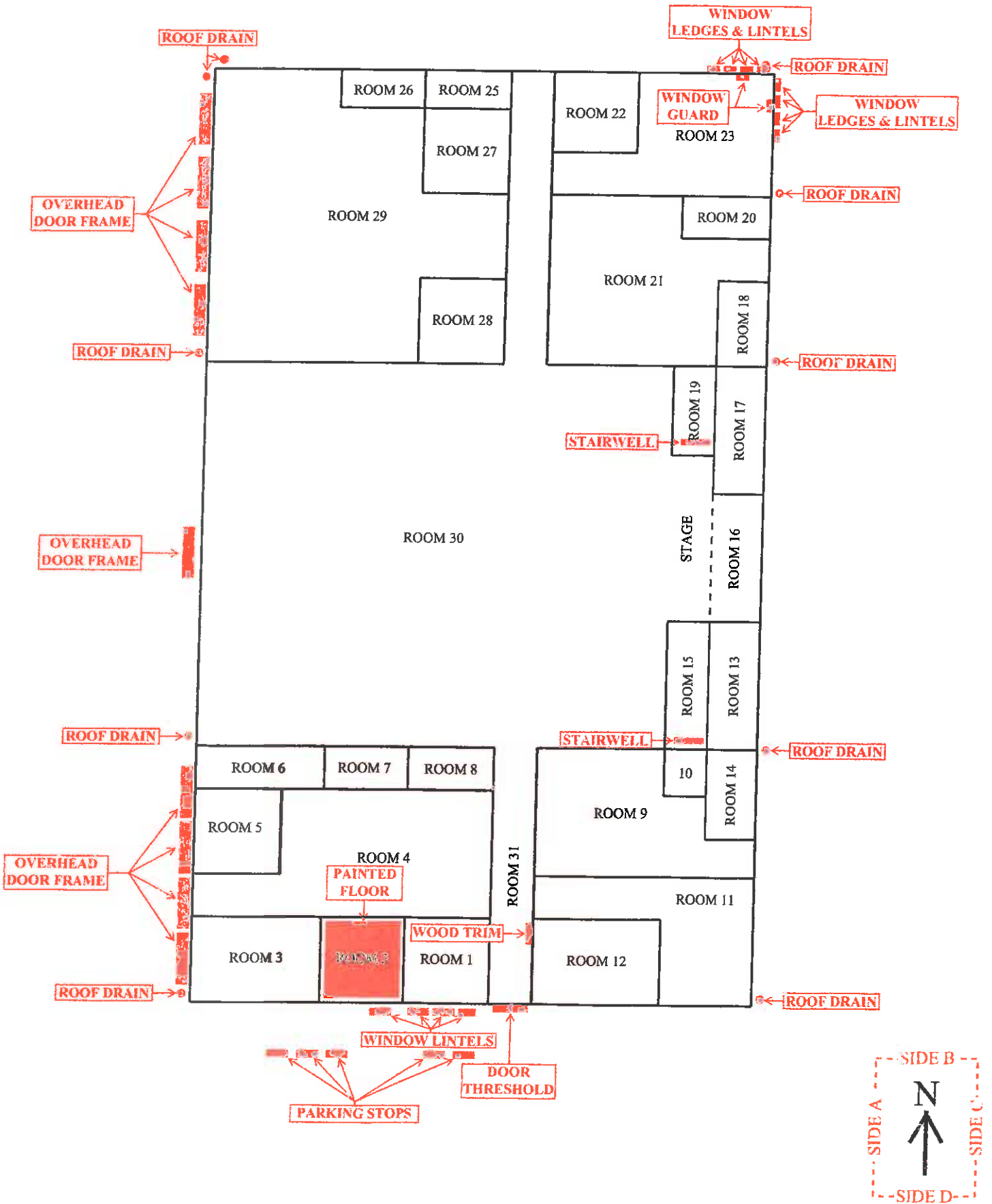


EXTERIOR TRIM

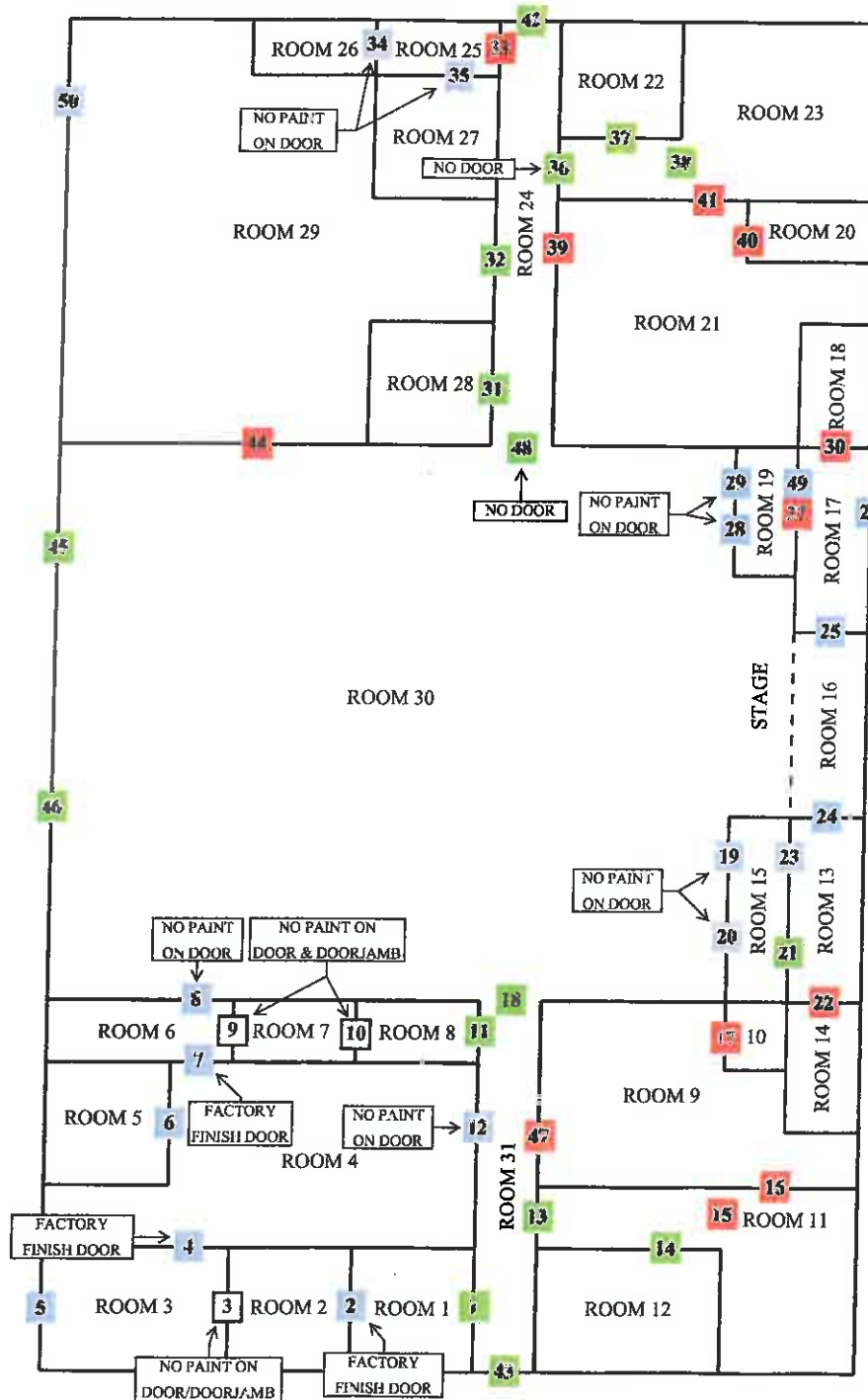


McAlester Armory

Miscellaneous Lead-Base Painted Surfaces



McAlester Armory Doors & Doorjamb



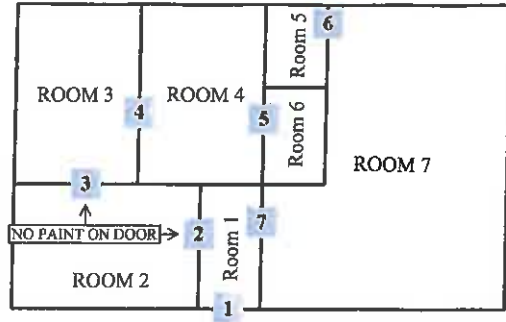
- LEAD-BASE PAINTED DOORS & DOORJAMBS
- LEAD-BASE PAINTED DCOR
- LEAD-BASE PAINTED DOORJAMB
- NEGATIVE LEAD-BASE PAINTED DOORS/DOORJAMBS

McAlester Armory Auxiliary Buildings Doors & Doorjambs

Building 2



Building 3

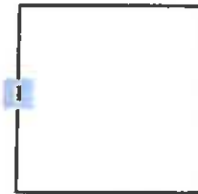


Building 4

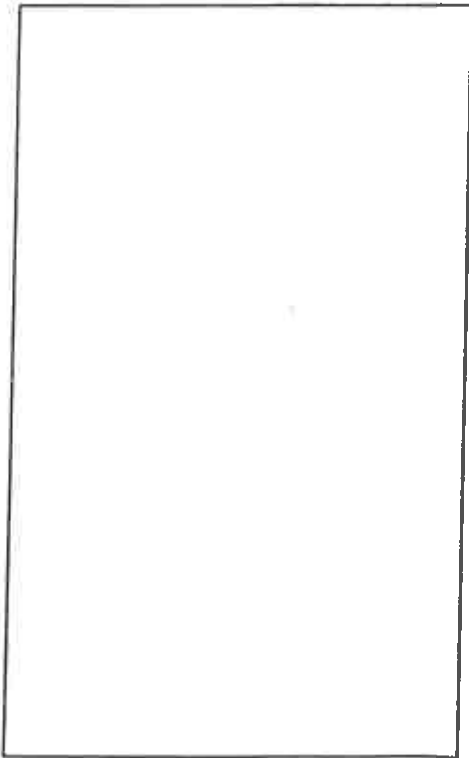


↑ NO PAINT ON DOORJAMB

Building 5

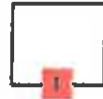


**Building 1
(Main Armory)**

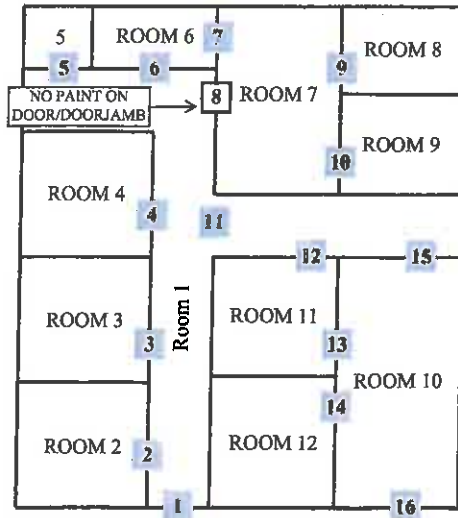


Building 6

Building 6 is actually located approximately 10-feet east of Building 4 →

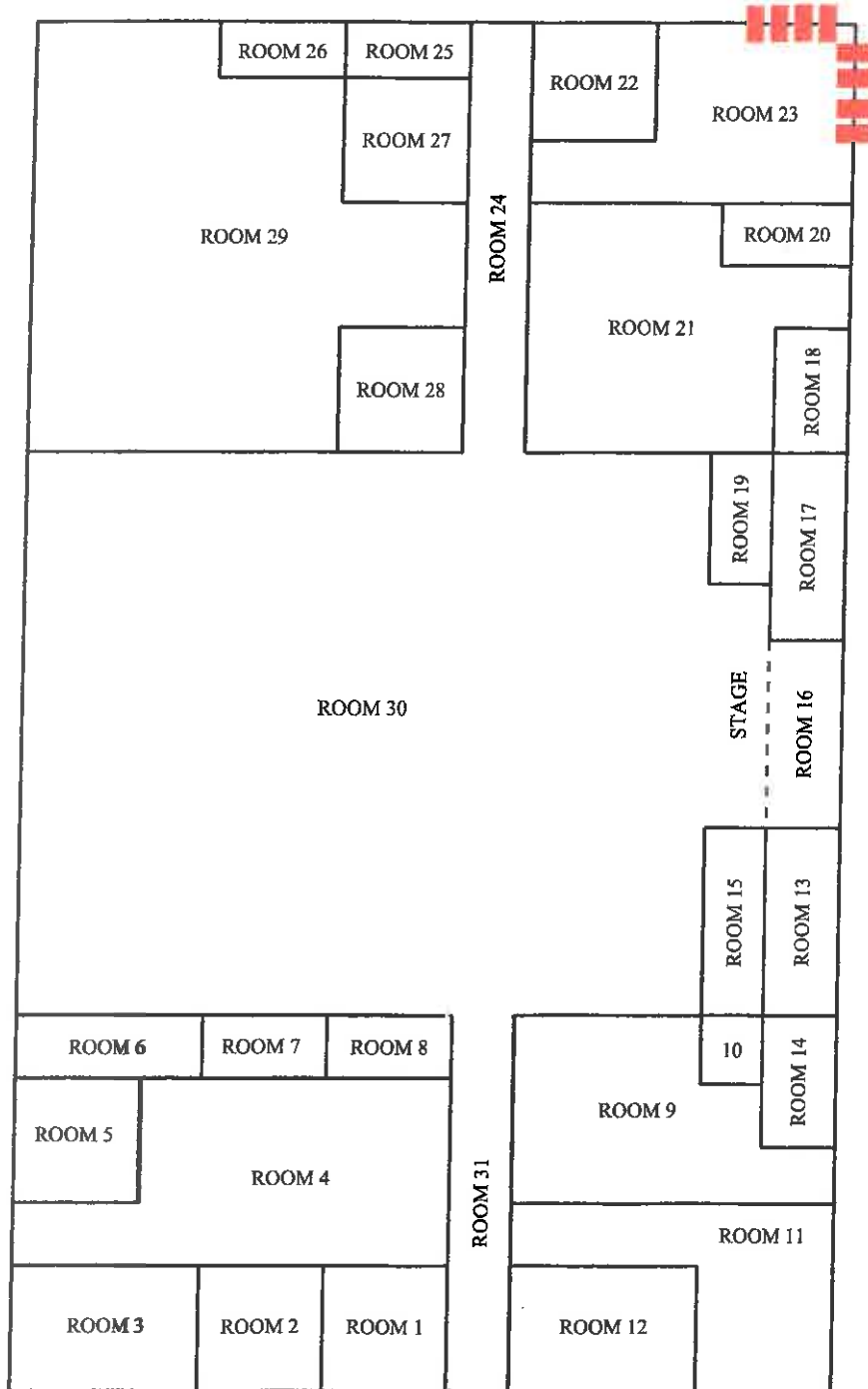


Building 7



McAlester Armory

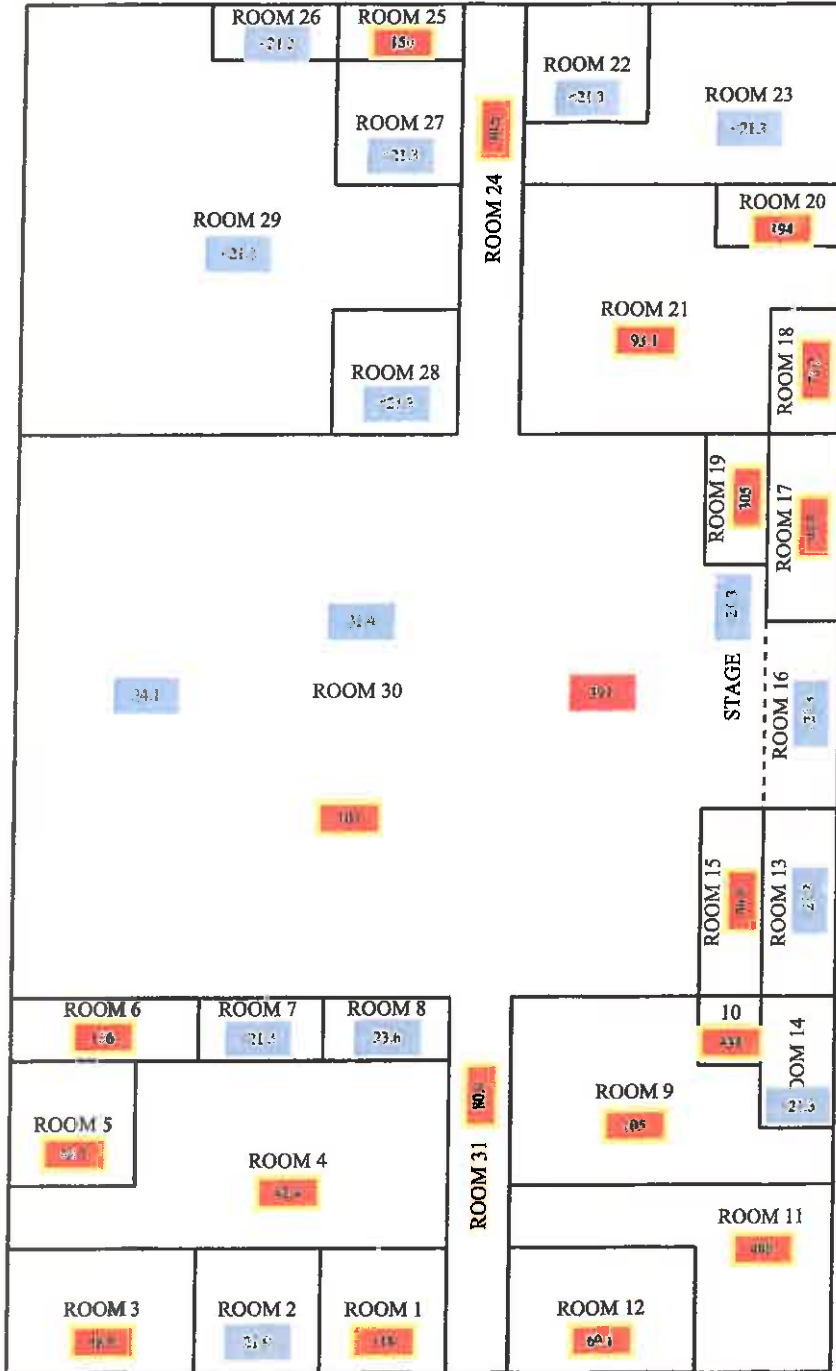
Lead-Base Painted Windows



LEAD-BASE PAINTED WINDOWS



McAlester Armory Lead in Surface Dust



Composite Sample Result
≥40-µg/ft²

Sample Result
≥40-µg/ft²

Sample Result
<40-µg/ft²



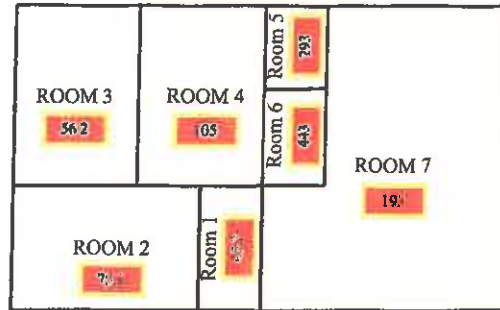
McAlester Armory Auxiliary Buildings

Lead in Surface Dust

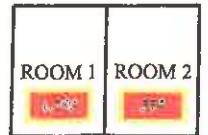
Building 2



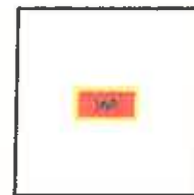
Building 3



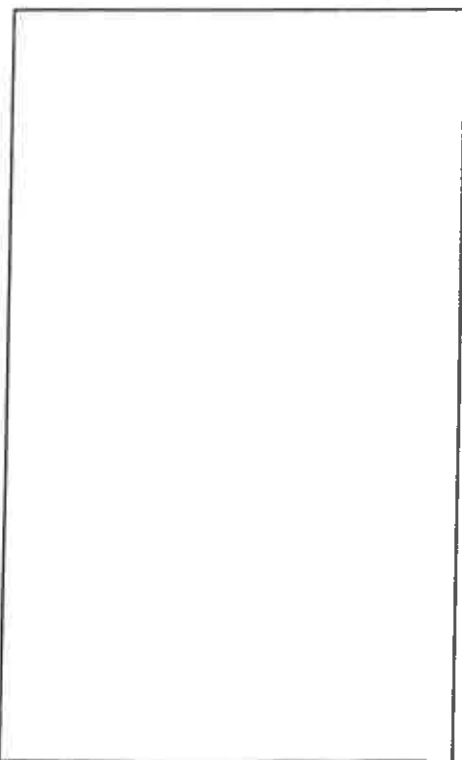
Building 4



Building 5



Building 1
(Main Armory)

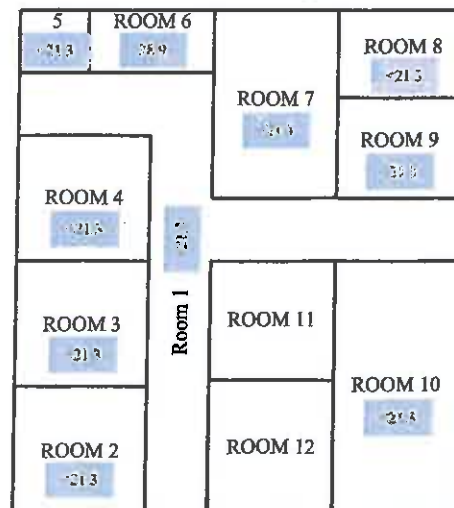


Building 6

Building 6 is actually located approximately 10-feet east of Building 4



Building 7









Window #1 - Side C



Window Lintel #2 - Side C



Roof Drain #3 - Side C



Parking Stops - Side D



Window Lintel #3 - Side D



Door Jamb #33



Door Threshold - Side D



Black Painted Floor - Room 2



Stair Rail - Room 15 - Side C





Door and Door Jamb #16



Door and Door Jamb #17



Door and Door Jamb #47



Door Jamb #18



Door Jamb #21



Door and Door Jamb #27



Door and Door Jamb #30



Door Jamb #31



Door Jamb #32



Door and Door Jamb #33



Door Jamb #36



Door Jamb #37



Door Jamb #38



Door and Door Jamb #39



Door and Door Jamb #41



Building 7 - Side A



Wall - Bldg 7 - Room 4 - Side C



yard - Bldg 3 - Side A



Soffit - Bldg. 4 - Side A



Door Track - Bldg. 4 - Side A



Overhead Door #1 - Bldg. 4 - Side A



Overhead Door #2 - Bldg. 4 - Side A



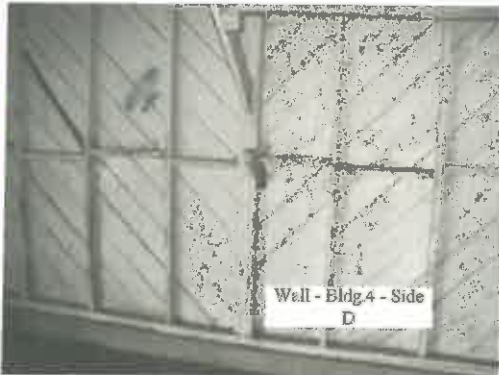
Overhead Door #3 - Bldg. 4 - Side A



Wall - Bldg. 4 - Side B



Wall - Building 4 - Side C



Wall - Bldg. 4 - Side D



Ceiling - Bldg. 4 - Room 2



Trim - Bldg. 6 - Side
D



Door and Door Jamb
#1 - Bldg. 6 - Side A



Main Armory - Side
A



Main Armory - Side
B



Main Armory - Side
C



Main Armory - Side
D

Department of Environmental Quality

MARSHALL ENVIRONMENTAL MANAGEMENT FIRM

This certifies that the operations of the Oklahoma Lead-Based Paint Management Act
are in compliance with the requirements of the Oklahoma Lead-Based Paint Management Act

Certification #: OQFIRM1160

Issued on: 4/11/2011

Expires on: 3/31/2012

[Signature]

Division Director
Air Quality Division



[Signature]

Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

This is to Certify That

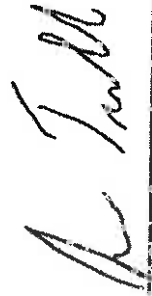
JACOB JONES

has met the specifications of the Oklahoma Lead-Based Paint Management Act
and is certified as a Lead-Based Painter

INSPECTOR/RISK ASSESSOR

Certification #: OKR ASR13457

This certificate is valid from the date of issuance and expires as prescribed by law
Issued on: 4/1/2011 Expires on: 3/31/2012



Division Director
Air Quality Division



Environmental Programs Manager
Air Quality Division

SCOPES OF WORK

SCOPE OF WORK

For

Abatement of Friable and Non-Friable Asbestos at The Former McAlester National Guard Armory

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from licensed asbestos abatement contractors for asbestos remediation services at a former National Guard armory located in McAlester, Oklahoma. Qualified bidder shall follow all appropriate OSHA requirements. This scope of work (SOW) describes the friable and non-friable (non-regulated) asbestos containing materials (ACM) that will be removed and demolition of Building 4. For details on the ACM including locations, please refer to the McAlester Armory Floor Plan Map (Attachment 1) and the Asbestos Inspection Report (Attachment 2).

Friable asbestos is present in the bedding mud in the ceiling of Room 14 in Building 1, and on the walls of rooms 1, 5, and 6, in Building 7. A project design for the removal of friable asbestos is included in this Scope of Work (Attachment 3).

Due to the poor condition of Building 4, this building shall be demolished and removed in its entirety once asbestos abatement has been completed. There is no friable asbestos present in this building.

Marshall Environmental will be performing oversight on this project. Once asbestos has been removed, contractor shall contact Marshall Environmental to perform the final inspection. Marshall Environmental will determine if all asbestos has been appropriately removed or if additional work needs to be performed. Marshall Environmental can be reached by phone at (405) 606-0401 or via email at marshenv@swbell.net.

The building is located at 319 East Polk Ave., McAlester, Oklahoma 74502. The building will have water and electricity to use during remediation.

SPECIAL PROVISIONS:

1. The contractor shall schedule all work to be complete within thirty (30) days of the date contract is awarded. Coordination of work shall be scheduled with DEQ.
 - a. A pre-construction meeting shall be held at the site after contract is awarded to review the Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
2. All work shall be performed in accordance with all applicable State and Federal regulations.
 - a. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations.

CONTRACTOR SHALL:

- Possess a current Oklahoma Department of Labor (ODOL) Asbestos Abatement Contractor License in order to perform asbestos abatement
- Follow all appropriate OSHA requirements

Submit With Bid:

- Copy of ODOL Asbestos Abatement Contractor License
- Three references with name, type of project, phone number, and location of similar work in the last three years

Submit After Contract Award:

- A Work Plan with planned activities and schedule to DEQ for approval

NON-FRIABLE ASBESTOS ABATEMENT INSTRUCTIONS

Below is a summary of the non-friable and/or non-regulated asbestos containing materials (ACM) that shall be removed from the McAlester Armory. See McAlester Armory Floor Plan Map for locations of ACM to be removed (Attachment 1).

- Remove all floor tile and mastic from:
 - Main Armory Building Rooms 1,3,5,7,8,13,14,16,26,27
 - **Total of 2,300 square feet**
 - Auxiliary Building 7 Rooms 1,2,3,4,7,8,9
 - **Total of 1,800 square feet**
- Remove mastic from:
 - Main Armory Building Room 6
 - **Total of 400 square feet**
- Remove exterior transite on soffit and siding from Building 4
 - **Total of 1,100 square feet**
- Demolish Building 4
 - Painted surfaces in Building 4 contain lead, therefore contractor shall remove all paint chips and construction debris from the demolition area.

FRIABLE ASBESTOS ABATEMENT INSTRUCTIONS

Below is a summary of the friable asbestos containing materials (Regulated ACM) that shall be removed from the McAlester Armory according to Oklahoma Department of Labor (ODOL) regulations and DOL approved Project Design (Attachment 3). See McAlester Armory Floor Plan Map for locations of friable ACM to be removed (Attachment 1).

- Remove bedding mud from:
 - Main armory Building Room 14 (on ceiling)
 - Total of 300 square feet
 - Auxiliary Building 7 Rooms 1, 5, and 6 (on wall)
 - Total of 1,700 square feet

FINAL REPORT

- Write final report containing the following information and submit to DEQ:
 - A detailed summary of work
 - Waste manifests (if any)
 - Photo documentation of work
 - Photo documentation of work will have color digital photos with captions describing photo
 - Photos will show before and after photos of work completed.
- Final report will be submitted in hard copy and electronically on disc.

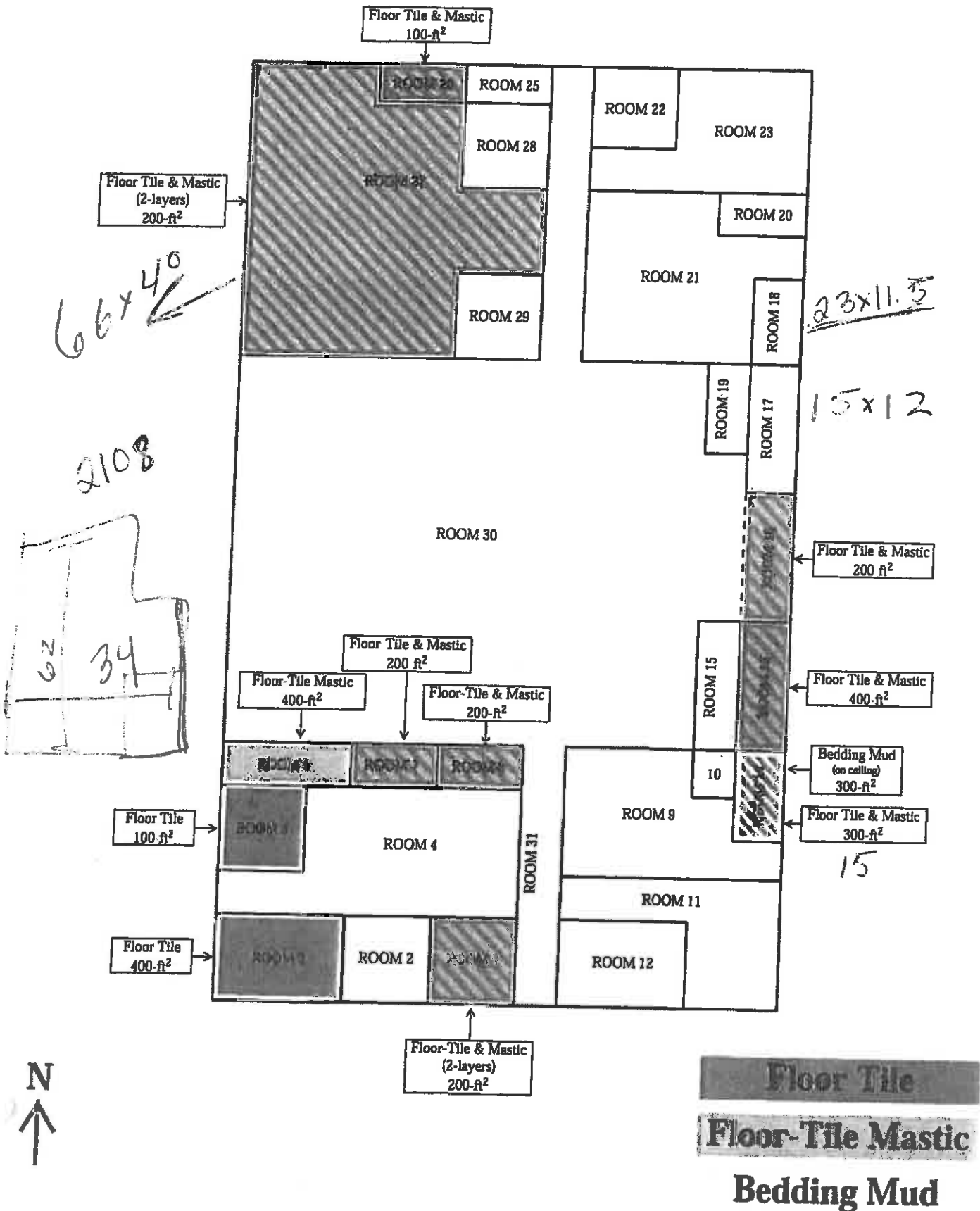
OWNER REPRESENTATIVE

Owner's Representative: Rebecca Marfurt
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson
Oklahoma City, OK 73102
(405) 702-5112 (Office)
(405) 702-5101 (Fax)
E-Mail: Rebecca.Marfurt@deq.ok.gov

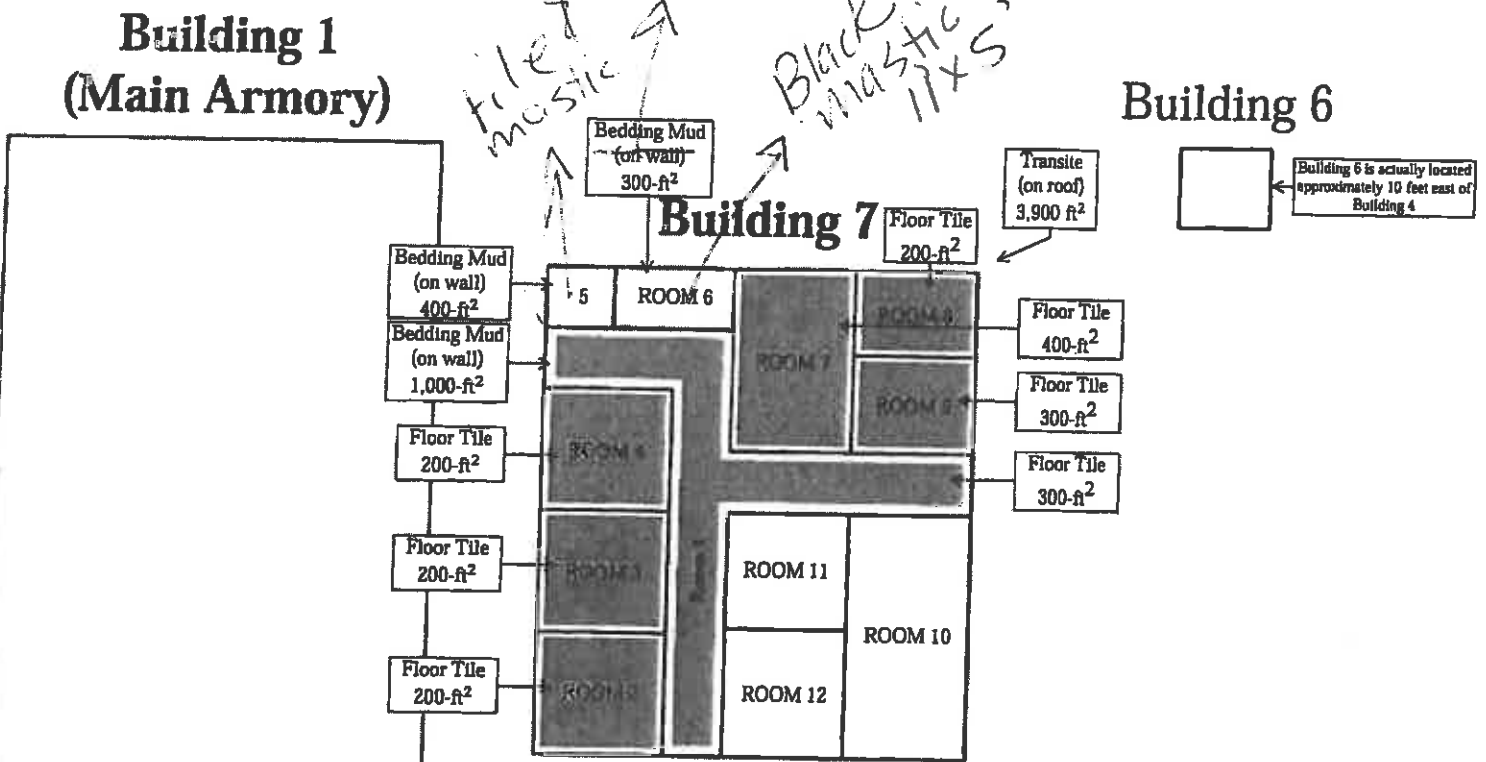
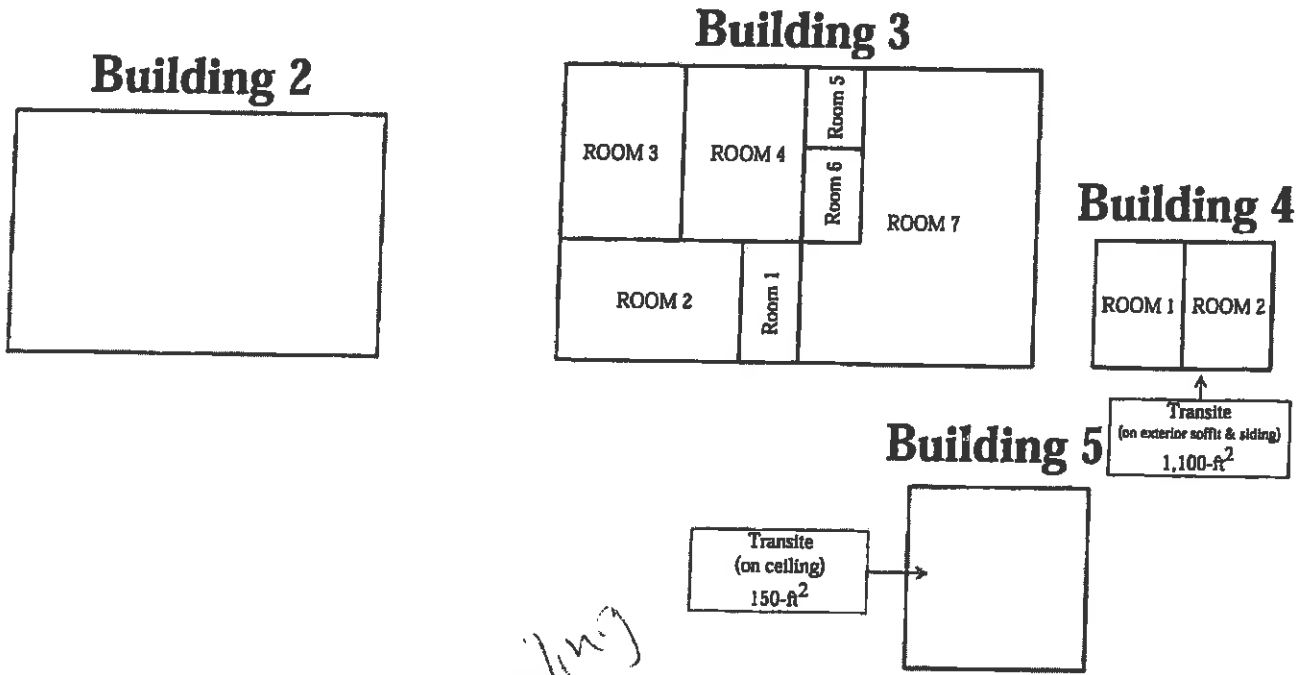
ATTACHMENT 1

**MCALESTER ARMORY
FLOOR PLAN MAP**

McAlester Armory Asbestos-Containing Materials



McAlester Armory Auxiliary Buildings Asbestos-Containing Materials



trusses, sprayed in Bldg 7? do we remove?

Floor Tile
Transite
Bedding Mud

ATTACHMENT 2

**MCALESTER ARMORY
ASBESTOS INSPECTION REPORT**

ATTACHMENT 3

**MCALESTER ARMORY
FRIABLE ASBESTOS PROJECT DESIGN**

MCALESTER ARMORY

*319 EAST POLK AVENUE
MCALESTER, OKLAHOMA 74502*

October 25, 2012

*Asbestos Project Design
Version 1.0*

Prepared For:

*Oklahoma Department of Environmental Quality
Land Protection Division
707 North Robinson
Oklahoma City, Oklahoma 73102*

Prepared By:

*Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
Phone: 405.616.0401
Email: marshenv@swbell.net*

Oklahoma Department of Labor Project #:

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McAlester Armory

ASBESTOS PROJECT DESIGN

SCOPE OF WORK

This Project Design has been prepared to allow for the safe and economical removal of approximately 2,000 square feet of asbestos containing bedding mud from the buildings located at 319 East Polk Avenue in McAlester, Oklahoma in support of the renovation project currently scheduled. The asbestos containing material is located in two different buildings. The main building (building 1) has one containment that will approximately 300 square feet of ceiling that will be removed. Building 7 has one containment with approximately 1,700 square feet of walls that will be removed. Asbestos removal will be conducted utilizing 380:50-23-4 (Ceiling Texture Methods). It will be the contractor's responsibility to verify quantities prior to submitting a bid.

RESPONSIBLE PARTIES & CONSULTANTS

LICENSED CONTRACTOR SELECTION:

A Licensed Asbestos Abatement Contractor who shall hold a valid Oklahoma Department of Labor (ODOL) Asbestos Abatement Contractor License will be selected to perform the abatement work.

LICENSED ASBESTOS ABATEMENT CONTRACTOR:

To Be Determined

LICENSED ASBESTOS PROJECT DESIGNER:



Jamie Marshall, B.S.
Industrial Hygiene Associate
Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
Office: 405.616.0401
Fax: 405.681.6753
Email: marshenv@swbell.net

OWNER REPRESENTATIVE:

Dustin Davidson
Oklahoma Department of Environmental Quality
Land Protection Division
707 North Robinson
Oklahoma City, Oklahoma 73102
(405) 702-5115

AGENCY STATEMENT

For the duration of this project all local, state and federal regulations will apply. This includes, but is not limited to, the Oklahoma Asbestos Control (OAC) Act, Abatement of Friable Asbestos Materials Rules 380:50-1-1 through 380:50-29-1.

SEQUENCING & PHASING OF WORK

This project will consist of one phase with two work areas. The Licensed Asbestos Abatement Contractor shall file the notification of the intended start date based upon the schedule to be determined by the Owner. The Project duration is estimated to take less than 5 days to complete. The Licensed Asbestos Abatement Contractor will place the centralized decontamination in an area where it is close to water and a drain. Waste will be loaded out which ever exterior door is closest to the waste dumpster or trailer. The Licensed Asbestos Abatement Contractor will follow the following sequence of events:

- 1) The Licensed Asbestos Abatement Contractor shall file required Oklahoma Department of Labor (ODOL) and National Emission Standard for Hazardous Air Pollutants (NESHAP) Notifications.
 - a. **NOTE: Copies of the notifications are to be provided to Project Designer and Owner Representative.**
- 2) The Licensed Asbestos Contractor will mobilize to begin prep work based upon the notice to proceed and after coordination is confirmed with the Owner Representative.
- 3) The initial job site setup work shall include the establishment of ground fault circuit interrupters (GFCI's) for use with all portable electric equipment, lighting and the power used by the decontamination unit equipment, HEPA vacuums and all negative air machines. All power within the work area that the workers have the potential to come in contact with will be isolated or disconnected.
- 4) The centralized decontamination units and negative pressure machines shall be set up as soon as possible for use during all prep work. The boundary of the regulated work area is to be surrounded by asbestos hazard communication warning tape.
- 5) The contractor will prep all asbestos waste dumpsters in accordance with section 380:50-17-9 of the OAC Act.
- 6) When prep is completed and internally vented negative air machines are re-circulating 2 air exchanges per hour, scheduling of an ODOL Prep Inspection will occur.
- 7) Once the Prep Inspection is approved, the contractor may begin gross removal. Only asbestos workers wearing the appropriate PPE will be allowed within the asbestos barrier tape.
- 8) During the abatement process, asbestos containing materials will be continuously wetted down until asbestos removal is complete.
- 9) After completion of the final cleaning, call for the ODOL Visual Inspection.
- 10) Upon ODOL Visual Inspection approval, the contractor may apply lockdown sealant where applicable and 3rd party clearance air monitoring may be conducted.
- 11) Conduct a final inspection to verify the completion of the Scope of Work with the Project Design Representative.
- 12) Lastly, schedule an ODOL Final Inspection.
- 13) Tear down any prep work and demobilize after approval by the ODOL and Project Design Representative.

- 14) Submit all required project documents and waste manifests to the ODOL and provide the Project Design Representative copies of all required project completion documents.

EGRESS, EMERGENCY ESCAPE ROUTES & FIRE EXTINGUISHER PLACEMENT

No work will be at performed without adequate lighting. The work area will be clearly illuminated by droplights, light stands or equivalent lighting. All work will be performed using a buddy system. All power to the area is to be supplied by the GFCI power source. All exit routes from the containment work area will be clearly marked with signs and highly visible arrows designating the exit path. Emergency lights will be in place, where necessary, in all areas that are not properly illuminated to assist in the identification of the exit locations.

Fire extinguishers shall meet the requirements of the OAC Act 380:50-15-14. A minimum of one 10A:B:C fire extinguisher shall be provided for each 3,000 square feet of the work area, or major fraction thereof travel distance from any point of the work area to the nearest fire. A minimum of two fire extinguishers will be inside the NPC work area. A minimum of one fire extinguisher shall be placed in the clean room of the decontamination facility.

Prior to beginning the prep and abatement work, all licensed asbestos workers will be given a briefing on the emergency egress procedures by the asbestos supervisor.

QUANTITY, TYPE & PERCENTAGE OF FRIABLE ACM

The ACM consists of bed mud/texture that is located on the portions of the ceiling in building 1 and walls of building 7.

Total quantity of ACM to be removed:

- Approximately 2,000 square feet of bedding mud

The friable asbestos consists of the following:

- 2% Chrysotile

ABATEMENT METHODS, TECHNIQUES & NUMBER OF CONTAINMENTS

There are two work areas, one is in the main building (building 1) and the other is in building 7. All work will be conducted will be done in accordance with agency rules. 380:50-23-4 (Ceiling Texture methods). Work areas will be prepped by sealing off all critical barriers within the work area. Work areas will be separated from non-work areas utilizing triple flaps constructed with 6 mil poly. The contractor will cover walls and floors with poly and seal all critical barriers with 4 mil poly.

AIR MONITORING REQUIREMENTS

SAMPLING REQUIREMENTS

All samples will be collected and analyzed by a technician that is NIOSH582e trained and analyzed by Phase Contrast Microscopy (PCM), in conjunction with a laboratory that is currently proficient with the American Industrial Hygiene Association's Proficiency in Analytical Testing Program.

Clearance samples will be analyzed by PCM in conjunction with a laboratory that is currently proficient with the American Industrial Hygiene Association's Proficiency in Analytical Testing Program.

PREP MONITORING:

- Prep work air monitoring is required due to the significantly damaged asbestos containing material. A minimum of 25% of the workers will be monitored during preparation of the containment.

DURING ABETMENT

- A minimum of 2 or 25% (whichever is greater) of the workers will be monitored during the abatement activities for all abatement work efforts. Personal monitoring is required during work to assure adequate respirator protection factors are applied in respirator selection.
- At least one, 30-minute excursion sample will be collected during the removal of the asbestos. This sample is to be representative of the work conducted for each activity that may generate a potential for worker exposure in excess of the OSHA PEL for the 30 minute excursion limit of 1.0 f/cc as specified in 29 CFR 1926.1101.
- The Contractor may use prior air monitoring for compliance with the requirement to collect an excursion sample if the representative sampling was conducted for work in the previous 12 months as specified in 29 CFR 1926.1101(f)(2)(iii)(B). ODOL has no excursion limit requirement; therefore it is the Contractor's responsibility to see that appropriate excursion sampling is conducted. This sampling work can be coordinated with the IH Technician provided by the Third Party Air Monitoring firm.

AREA MONITORING

- One inside work area sample should be placed inside around the vicinity where the work is being conducted
- One outside area sample will be collected outside the Clean Room for the decontamination facility for each shift that the decontamination unit is in use
- One area sample will be collected outside an adjacent side of the containment during the demolition
- One area sample will be collected outside the Load-out chamber as an adjacent area sample while the work procedures are being conducted.
- One area sample will be collected at the load out trailer during load out procedures
- Negative Air Machine Air Monitoring: One sample will be collected for each negative air machine that is used.

NUMBER & LOCATIONS OF CLEARANCE SAMPLES

Five clearance samples will be collected within the work areas with a minimum volume of 1,200 liters. Clearance samples will be analyzed by PCM in conjunction with a laboratory that is currently proficient with the American Industrial Hygiene Association's Proficiency in Analytical Testing Program.

NUMBERS, CAPACITIES & DISCHARGE POINTS OF NEGATIVE AIR MACHINES

The contractor will have a sufficient number of internally vented negative air machines to supply 2 air exchanges per hour. The centralized decontamination system will have one negative air machine running and show a visible negative pressure when in use. Visible negative pressure will be determined by the Project Designer's Representative. The areas of the work areas are estimated to be 100 and 600 square feet and the volume of the structure are estimated to be 800 and 4,800 cubic feet. This project will require one negative exhaust machines per work area functioning at 1,200 cubic feet per minute to supply 2 air exchanges per hour.

DETAILS OF PROJECT & GENERAL REQUIREMENTS

This project does not require negative pressure containments. This project will be conducted in accordance with ceiling texture methods. Prior to the commencement of work, the asbestos contractor will erect a centralized decontamination, establish the regulated work area by placing asbestos warning tape around the work area, establish 2 air exchanges per hour, seal all critical barriers, disconnect power or lockout/tag out electrical inside the containment areas, and prep waste trailers. All electricity will be disconnected or locked out/tagged out within the containment area for the duration of the project. After approval from the project manager and owners representative, the asbestos contractor will call for a prep inspection.

After the prep has been accepted by the ODOL, asbestos removal can commence. Structures will be adequately wetted in a manner that minimizes the dispersal of dust for the entirety of the removal process. No one other than ODOL licensed asbestos workers will be allowed inside the regulated areas. Once all of the asbestos has been removed and loaded into waste trailers, the asbestos contractor will final clean the area where necessary. After the area has been inspected and accepted by the project manager, a visual inspection will be scheduled with the ODOL. Upon approval of the ODOL the contractor will lockdown the containment area. Once lockdown has had adequate dry time, clearance air samples will be collected. When clean air has been established the contractor may call for a final inspection.

The Asbestos Abatement Contractor shall abide by this Project Design and the requirements, which govern friable asbestos removal in OAC Act 380:50, and require notification, worker training, and applicable transportation and disposal requirements for asbestos waste materials to include, but not limited to the following:

CODES & REGULATIONS:

Wherever conflicts arise within the Project Design General Requirements or Procedures and/or among the applicable Rules and Regulations, the most stringent rules shall apply. This is subject to approval by ODOL or other authorities having jurisdiction (e.g. DEQ). If allowed by the authority with jurisdiction, a request for a variance can be submitted, provided it is acceptable to the Project Designer and Project Manager.

- 29 CFR 1910, OSHA General Industry Standards

- 29 CFR 1926, OSHA Construction Industry Standard
- 29 CFR 1926, 1101 OSHA Asbestos Construction Standard
- 40 CFR 61, Subpart M (NESHAP) enforced by ODEQ
- ANSI Z88.2 latest edition (Respiratory Protection)
- Oklahoma Asbestos Control Act Title 40 Sections 450-456
- OAC 380:50 (All-inclusive), Oklahoma Rules for Abatement of Friable Asbestos Materials
- The Asbestos Hazard Emergency Response Act (AHERA) of 9186 PL (99-519) and rules and regulations adopted by EPA for its implementation, latest edition.
- 49 CFR (USDOT) Hazardous Material Transportation Regulations
- OAC 252:100-40, Air Pollution Control Rules, Control of Emission of Friable Asbestos during Demolition and Renovation Operations (replaces OAC 252:100-41-16)
- OAC 252:515-19, Management of Solid Wastes (DEQ Asbestos Land Protection Division Asbestos Disposal Requirements)
- All Applicable State Statutes, County and City Codes/Ordinances

DETAILS OF DECONTAMINATION SYSTEM

A three chamber Centralized Decontamination System will be utilized and constructed in accordance with Subchapter 15 of the Oklahoma Asbestos Control Act 380:50 -15-7, 15-8 and 15-12.

SOIL SAMPLING

This project does not require the removal of any soils contaminated with ACM.

MATERIALS OR METHOD USED TO PROTECT OBJECTS IN THE WORK AREA

All items that are not removed from the work areas will be covered with 4 mil poly.

REQUEST FOR VARIANCES

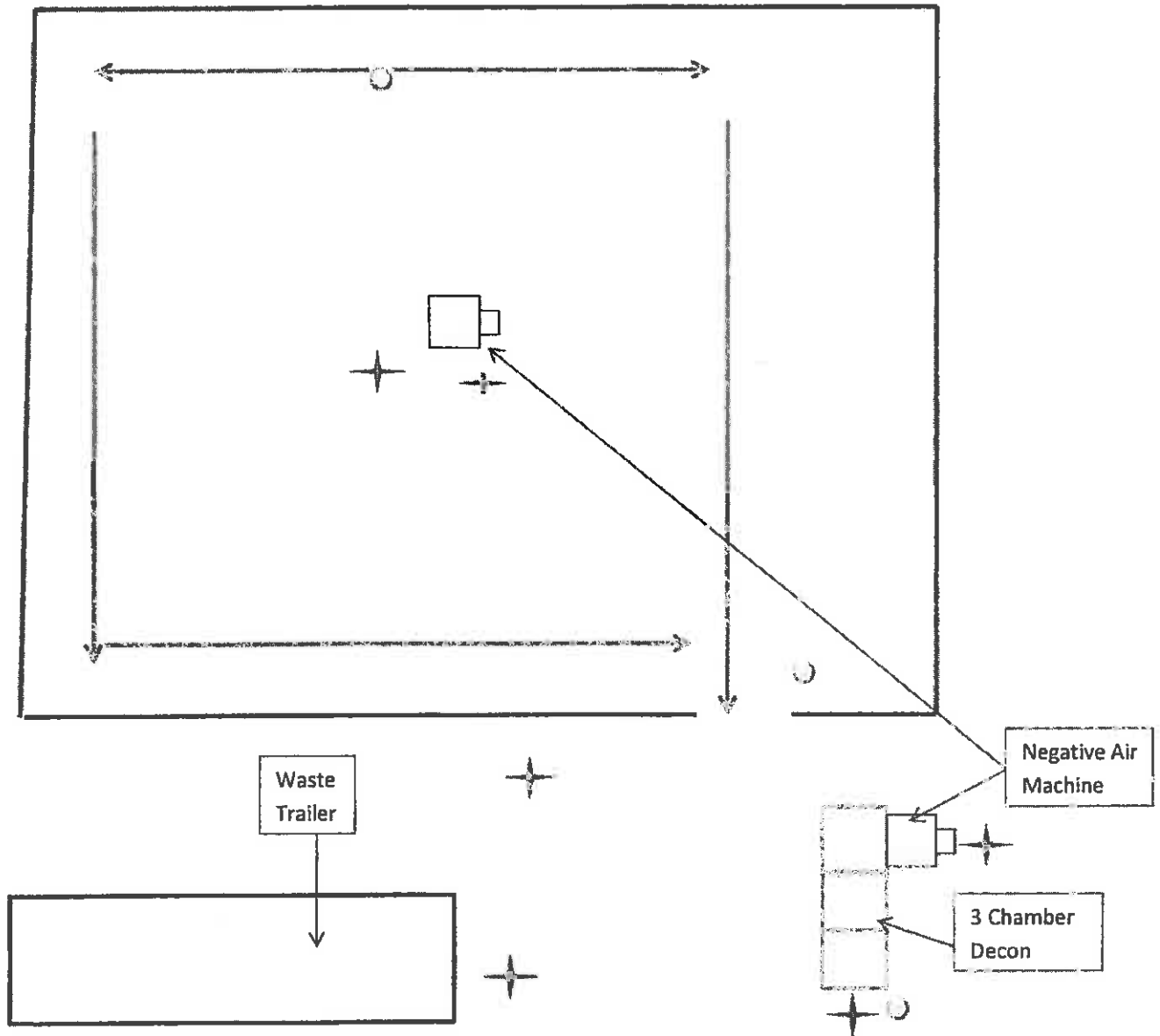
The no variances are being requested for this project.

APPENDIX

EXAMPLE CONTAINMENT DRAWING

ANALYTICAL RESULTS

ASBESTOS PROJECT DESIGNER LICENSE



Phase I Containment Drawing

- ← Egress Routes
- + Clearance Pumps
- ✦ Area Pumps
- Fire Extinguisher


Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100
Oklahoma City, OK 73159
Phone: (405) 616-0401 Fax: (405) 681-6753
marshenv@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0190-AB-122711	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	McAlester Armory Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
Project Address	319 E. Polk Ave. McAlester, OK 74502	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Mel Priddy	Phone	+05-522-4805	Phone	405-702-3115
Phone	918-421-9084	Fax	405-522-0051	Fax	
Cell		Other		Other	
email		email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

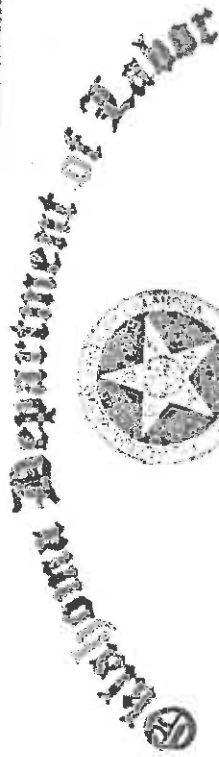
LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		2% ASBESTOS DETECTED		
			COLOR	CONDITION	2%	98%	
0003-122711-PLM-61	December 27, 2011	Bed Mud	Grey	Good	2%	Chrysotile	98% Calcareous Material
		Building 1, Room 14 Ceiling Center	Good	Surfacing			
0003-122711-PLM-62	December 27, 2011	Bed Mud	Grey	Good	2%	Chrysotile	98% Calcareous Material
		Building 1, Room 14 Ceiling West	Good	Surfacing			
0003-122711-PLM-63	December 27, 2011	Bed Mud	Grey	Good	2%	Chrysotile	98% Calcareous Material
		Building 1, Room 14 Ceiling South	Good	Surfacing			
0003-122711-PLM-64	December 27, 2011	Drywall	White	Good			4% Cellulose
		Building 1, Room 14 Ceiling Center	Good	Miscellaneous			96% Calcareous Material
0003-122711-PLM-65	December 27, 2011	Drywall	White	Good			4% Cellulose
		Building 1, Room 14 Ceiling West	Good	Miscellaneous			96% Calcareous Material

Janie Marshall		January 15, 2012
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 500/M4-82-020 1982.

Lab Accreditation:
AIHA PAT ID# 102334

FILE 5000



Jamie Marshall

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA PROJECT DESIGNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in him by the Board of Labor in the
affiliated license to the OK-CD-0000000.

Mark Costello

MARK COSTELLO
Commissioner of Labor

March 09, 2012

Date of License

OFFICIAL License No. 1011

Project Design Review Form

Oklahoma Department of Labor
Asbestos Division

3077 N. Siles, Oklahoma City, OK 73105

Phone - (405)21-4444

Fax - (405)21-8028

Project Name: McClusker Army

Project No: 12-7206 Date: 11/05/2012

Project Designer: Brian Marshall OKPD #400473

Approved: X
Disapproved: _____

	ITDA	ACCEPTED	REJECTED	COMMENTS
1	A statement that OOL Abatement of Frictional Materials Rules apply.	X		Page 4 Abatement of Frictional Materials Rules apply.
2	Sequencing and phasing of work.	X		Page 4 This project will be conducted in one phase.
3	Identification of means of egress and a fire protection plan and a diagram for emergency escape routes, and fire extinguisher placement.	X		Page 5 All exits will be clearly marked and illuminated. Two fire extinguishers shall be located in the work area and one in the clean room of the decontamination facility.
4	The quantity, type, percentage with bulk analysis unless presumed and a designated location of asbestos materials to be abated.	X		Page 5 2,000 sq. ft. of sprayed on ceiling texture consisting of 2% Chrysotile
5	Abatement methods, and techniques, and numbers of containment, glove bags or mini-containments.	X		Page 5 Abatement will be performed in accordance with OAC 390:50-23-4 (Ceiling texture Methods)
6	Details of personal and area air monitoring samples.	X		Page 6 Air monitoring will be conducted in accordance with OAC 390:50-11-1.
7	Numbers and locations of Clean Test samples and type of analysis to be employed.	X		Page 7 Clearance sampling will be conducted with OAC 390:50-11-2.
8	Numbers, capacities, a diagram to identify locations, and discharge points, if any, of negative air machines.	X		Page 7 Each of the two work areas will require one negative-air machine.
9	Details of project containment(s), glove bag or mini-containments, including drawings. Details shall include all applicable subcomponents, including but not limited to scaffolding and fire electric isolation.	X		Page 7 SEE CONTAINMENT DRAWING
10	Details of decontamination system(s).	X		Page 8 Three stage centralized decontamination facility.
11	The content to which asbestos-contaminated soils, if any, must be removed and the sampling methods of determining the efficacy of such removal.	N/A		
12	Special materials or methods required to prevent objects in the work area from being damaged, (pyrowood over carpeting or hardwood floors to prevent damage from scaffolds and/or falling materials).	X		Page 8 All items not removed from work areas will be covered with 4 mil poly.
13	Any variances from the Abatement of Frictional Materials Rules.	N/A		

The Department of Labor reserves the right to require additional engineering or environmental controls consistent with the Abatement of Frictional Materials Rules which may be necessary because of discrepancies between the Project Design and field conditions or from unanticipated changes in field conditions.

REVIEWED BY: [Signature] DATE: 11/05/12 REVIEWED BY: [Signature] DATE: 11/06/12

STATEMENT OF WORK

For

Remediation of Lead-Based Paint and Lead Contamination at McAlester Armory

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at a former National Guard armory located in McAlester, Oklahoma. This statement of work (SOW) describes the cleanup of lead contamination associated with the indoor firing range (IFR), lead contaminated dust on the floors of the building and lead-based paint (LBP) located on surfaces throughout the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the McAlester Armory is attached for review (Attachment 1).

The building is located at 319 East Polk Avenue, McAlester, Oklahoma 74502.

SPECIAL PROVISIONS:

1. **Work Schedule:** The Contractor shall schedule all work to be complete within 120 days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
2. **Conditions of Work:** The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEQ.
 - d. **Disposal of Removed Materials:** All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Possess a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow all appropriate OSHA requirements;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;
- Read Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006, Departments of the Army and Air Force, National Guard Bureau (Attachment 2), and refer to this document as a reference and guideline for remediating IFR lead contamination.

Submit With Bid:

- Copy of lead-based paint firm license;
- Copy of lead-based paint supervisor license;
- Three references with name, type of project, phone number, and location of similar work in the last three years.

Submit After Contract Award:

- A Work Plan with planned activities and schedule to DEQ for approval.

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

Any abatement details where a building number is not listed is referring to Building 1.
Building 4 has been removed from the property.

○ Non-Friction and Non-Impact Surfaces

- All items listed below shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (Attachment 4). Encapsulant shall be a minimum of 20 mils thick. The Lead-Based Paint and Settled Dust Sampling Report with floor plan maps detailing the locations of the lead-based paint is attached for review (Attachment 5);
 - All Building 1 Down Spouts (Roof Drains);
 - All Building 1 Window Lintels;
 - All Building 1 Window Sills;
 - All Building 1 Overhead Door Frames, Guards, and Casings;
 - Building 3 Overhead Door Guards
 - Building 6 Exterior Trim
 - Building 7 – Room 4 Side C Wall (North Wall)
- The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- The wood trim in Room 31 shall be removed and properly disposed;
- All interior window bars will be removed and properly disposed;
- Deteriorated paint removed from building surface will be properly disposed.

○ Friction and Impact Surfaces

○ Floors

- The yellow door threshold on the exterior Side D of the building and the floor of Room 2 contain lead-based paint. All paint shall be visibly removed. Once visibly removed, the steps shall be HEPA vacuumed, wet washed, and sealed with Epoxy-Coat Garage Floor Coating Kit or equivalent. Specifications are attached (Attachment 4);

○ Windows (See Attachment 6)

- A Window-Scope of Work with map, window measurements, specifications for window replacement, and specific details on abatement requirements for each window is attached (Attachment 6);
- Windows installed must meet all attached specifications;
- Window installation and oversight of window removal shall be performed by a third party professional window installation company that is certified and recommended by the window manufacturer of the windows being installed;
 - Window installer shall have no less than five (5) years installation experience;
- Window installer shall have experience with removal of steel casement windows;

- All interior and exterior window sills shall be HEPA vacuumed and wet washed after windows have been removed and replaced;
 - Once window sills have been cleaned, contractor shall encapsulate with DEQ approved lead-based paint encapsulant.

- **Doors and Frames (See Attachment 7)**
 - A Door-Scope of Work with map, door measurements, and specific details on abatement requirements for each door is attached (**Attachment 7**);
 - Specifications for replacement items are attached (**Attachment 7**);
 - Doors will be replaced with UL listed 90 minute standard metal doors;
 - Doors will be replaced with Steelcraft L18 and L16 – Series Honeycomb Doors (Specifications Attached) or equivalent;
 - Contractor must submit product data for approval if different from doors or door frames in bid package;
 - Replacement doors and frames must meet all compliance and fire rating requirements in the attached specifications;

 - a. **Exterior Doors**
 - Exterior doors will be replaced with galvanized, 16 gage, honeycomb core insulated doors;
 - Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
 - Threshold: As manufactured by National Guard Products or approved equal – 426E (Specifications Attached);
 - Weather Strip: As manufactured by National Guard Products or approved equal – 160VA (Specifications Attached);
 - Lever: As manufactured by Schlage or approved equal – D Series “Rhodes”, 626 finish, function ND60PD (Specification Attached);
 - Keying: All doors to be keyed alike;
 - Provide sealant per 07920 specification attached.

 - b. **Interior Doors (All Except Indoor Firing Range Door)**
 - Interior doors will be replaced with non-galvanized, 18 gage, honeycomb core insulated doors;
 - Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
 - Knob: As manufactured by Schlage or approved equal – A Series “Orbit”, 626 finish, function A10S (Specification Attached);
 - Provide sealant (caulking) per 07920 specification attached.

- **Clearance Inspection**
 - Once lead-based paint has been removed from surfaces, DEQ will perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
 - Once lead-based paint abatement is complete and after room floors are cleaned, contact Marshall Environmental Management to perform post abatement clearance sampling in these areas. See Section C (Confirmation and Clearance Sampling) for additional information.
 - If samples do not meet EPA and HUD standards for lead dust (40 µg/SF for floors), areas shall be re-cleaned and re-sampled.

- **Sampling and Disposal**
 - DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed as hazardous waste.
 - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the Contractor's responsibility to characterize this waste under 40 CFR 262.11 and if they are determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
 - A completed and signed waste manifest, Land Disposal Notification Form, and Certificate of Disposal demonstrating that the paint chips were properly disposed at a hazardous waste facility must be included in the Final Report.

LEAD DUST REMEDIATION INSTRUCTIONS

Sequence of Events

The initial cleaning of the building shall be as follows:

1. The indoor firing range (IFR) shall be cleaned (See *Section 1. Indoor Firing Range (IFR)* below for details).
2. All floors of the remaining building shall be cleaned (See *Section 2. Remaining Building* for details).

1. Indoor Firing Range (IFR)

The IFR in this building is a long narrow basement room with attached small side room where the Oklahoma Military Department would target practice with weapons. Sometimes the IFR will have a steel bullet deflection plate and sand trap. The IFR is to be cleaned by removal of all lead contaminated materials, including debris (if present), sand (if present), steel plate (if present), lead-based paint (if present), and lead contaminated dust and other lead containing particulates on the floor, walls, and ceiling of the IFR.

• Pre-remediation Preparation

- To ensure cross contamination does not occur, use engineering controls such as:
 - Sealing openings with 6 mil poly sheeting to contain dust inside IFR;
 - Covering floor of area outside IFR with 6 mil poly sheeting to make sure not to track lead dust into clean areas;
 - Securing IFR at the end of the work day. At no time shall the IFR be accessible for unauthorized entry without the contractor present;
- When inside IFR wear appropriate personal protective equipment (See Attachment 3).

• Water Removal

- The IFR is currently flooded with a large volume of water. The water from the IFR shall be filtered through a 1 micron filter, stored in a large container on site, and then sampled for total lead. Total lead shall be run by ICP. The water shall be disposed appropriately. DEQ will require documentation of sample results and disposal documentation of the water.
- All wash water from the IFR shall be filtered through a 1 micron filter and then sampled for total lead and total phosphorus. Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3. Wash water shall be

disposed appropriately. DEQ will require documentation of sample results and disposal documentation of the water.

- **Pre-remediation Removal**

- Decontaminate door to IFR side room, remove from frame, wrap in poly sheeting, and properly dispose;
- Remove all paint from side room door frame to bare metal and paint frame with neutral colored primer;
- Sand Trap (If Present):
 - Decontaminate metal backstop, wrap in poly sheeting and properly dispose;
 - Decontaminate sand trap framework, wrap in poly sheeting and properly dispose;
 - Place sand in sealed drums and dispose of sand as hazardous waste.
- Decontaminate all items to be removed from the IFR, wrap in poly sheeting, and properly dispose.
 - Items such as acoustical tiles, carpet, or other porous materials shall be HEPA vacuumed, washed, and sampled for TCLP. Acoustical tile, if present, will have 3 – five part composite samples taken. All other materials shall have 1 – five part composite sample taken of each material. If samples pass TCLP then properly dispose. If any samples fail TCLP, dispose of that item as hazardous waste.

- **Remediation**

- HEPA vacuum and wet wash walls, floor, ceiling, vent fan, and other structures that are contaminated;
- Dispose lead contaminated dust, wash water, and appropriate cleaning materials as hazardous waste or as appropriate (See section 3. Disposal of Materials for detailed information).

- **Post-remediation**

- All post-remediation sampling shall be performed by Marshall Environmental Management (MEM). The Contractor shall provide MEM a minimum of five (5) calendar days prior notice to perform sampling. See *Section 4. Confirmation and Clearance Sampling* for contact information;
- Post remediation sampling is required to confirm the IFR has been remediated to 200 micrograms per square foot (ug/SF);
 - Areas above 200 ug/SF shall be re-cleaned and re-tested until results are at or below 200 ug/SF;

- If surfaces of the IFR cannot be cleaned and DEQ determines that these surfaces contain imbedded lead fragments, construction grout shall be used over these surfaces.
 - Surfaces shall be thoroughly cleaned;
 - A two part epoxy mixture designed for concrete shall be applied to surfaces according to manufacturer's specifications. Use Epoxy-Coat Garage Floor Coating Kit or equivalent. Specifications are attached (Attachment 5);

- Once the IFR has been remediated to 200 ug/SF, seal the floor, ceiling, and walls with appropriate sealant;
 - Floor, ceiling, and walls will be sealed with KM-669 Acrylic Sealer or equivalent. Specifications attached (Attachment 4);
 - IFR area will have forced air applied to room 4 days after sealer is applied. This will be done to remove all vapors from the area;

- After surfaces are sealed, the Contractor shall provide MEM a minimum of five (5) calendar days prior notice to perform post remediation wipe sampling to confirm the IFR has been remediated to 40 ug/SF;

- Areas above 40 ug/SF shall be cleaned to remove lead dust from sealed surface. Once cleaned, the area shall be retested to confirm area has been remediated to 40 ug/SF;

- All re-testing of previously failed areas shall be performed by MEM. Contractor shall provide MEM a minimum of five (5) calendar day's prior notice to perform sampling.

- The chart below summarizes the clearance numbers for the indoor firing range. All lead wipe samples must be at or below these numbers in order for the room to be considered clean.

Post Remediation	Post Sealant
200 ug/SF	40 ug/SF

2. Remaining Buildings (Floors of Buildings 1, 2, 3, 5, 6 and 7)

Lead Dust Remediation (See Attachment 5)

- Properly clean up any large oil, grease, etc. spills on the floors and properly dispose before lead remediation begins;
- Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- Floors of the entire building shall require lead dust remediation;
 - Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins;
 - Remove dust from all carpet, remove carpet from rooms, and dispose of all carpet as non-hazardous waste before lead dust remediation of floor begins;
 - Dispose any materials, determined by the DEQ to be trash, as non-hazardous waste;
 - HEPA vacuum and wet wash floors of entire building;
 - Lead levels on the floor are high in many areas of the building and lead contaminated dust may be ground into the pores and cracks of the concrete. It may be necessary to clean floors several times or use alternate cleaning methods after HEPA vacuuming and wet washing to remove the lead dust from the concrete and get the lead levels down to 40 micrograms per square foot (ug/SF).
 - Contact Marshall Environmental Management (MEM) to perform independent third-party post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section 4 (Confirmation and Clearance Sampling) for additional information;
 - Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
 - Lead dust and appropriate cleaning materials shall be disposed as appropriate.
 - Wash Water Disposal
 - All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers;
 - The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
 - Wash water shall be disposed appropriately.
 - Sample results and disposal documentation shall be submitted to DEQ.

3. Disposal of Materials

Hazardous Waste

- Lead contaminated sand shall be disposed as hazardous waste;
- Lead contaminated dust from the cleaning of the IFR and remaining building shall be disposed as hazardous waste;
- Wash water filters shall be disposed as hazardous waste;
- Mop heads, towels, brushes, wipes, and other cleaning supplies shall be disposed as hazardous waste.

Other

- Poly Sheeting shall be disposed as appropriate. If contractor plans to dispose as non-hazardous waste, best management practices such as vacuuming, washing, wiping down, or cleaning poly sheeting prior to disposal shall be implemented.
- Personal protective equipment (gloves, tyvec, face masks, etc.) shall be disposed as appropriate.

4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from MEM.
- Marshall Environmental Management (MEM) will be responsible for taking all post remediation samples.
- MEM shall be notified five (5) days prior to each sampling event.
- Contact Information: **Marshall Environmental Management Inc.**
1601 Southwest 89th Street, Suite 100-A
Oklahoma City, Oklahoma 73159
Contact: Sara Marshall
Phone: (405) 516 - 0401
- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling done outside the indoor firing range will be performed after all initial abatement, remediation, and cleaning is complete.
- The chart below summarizes the clearance numbers for the building. All lead wipe samples shall be at or below these numbers in order for these areas to be considered clean.

IFR Post Remediation	IFR Post Sealant	Room Floors
200 ug/SF	40 ug/SF	40 ug/SF

FINAL REPORT

- Write final report and submit to DEQ;
 - Final report shall include asbestos, lead dust and lead-based paint abatement;
- Final report shall include:
 - A detailed summary of work including any warranties and data;
 - sample results;
 - waste manifests; and
 - photo documentation of work;
 - Photo documentation of work will have color digital photos with captions describing photo;
 - Photos will show before and after photos of work completed.
- Final report will be submitted in hard copy and electronically on disc.

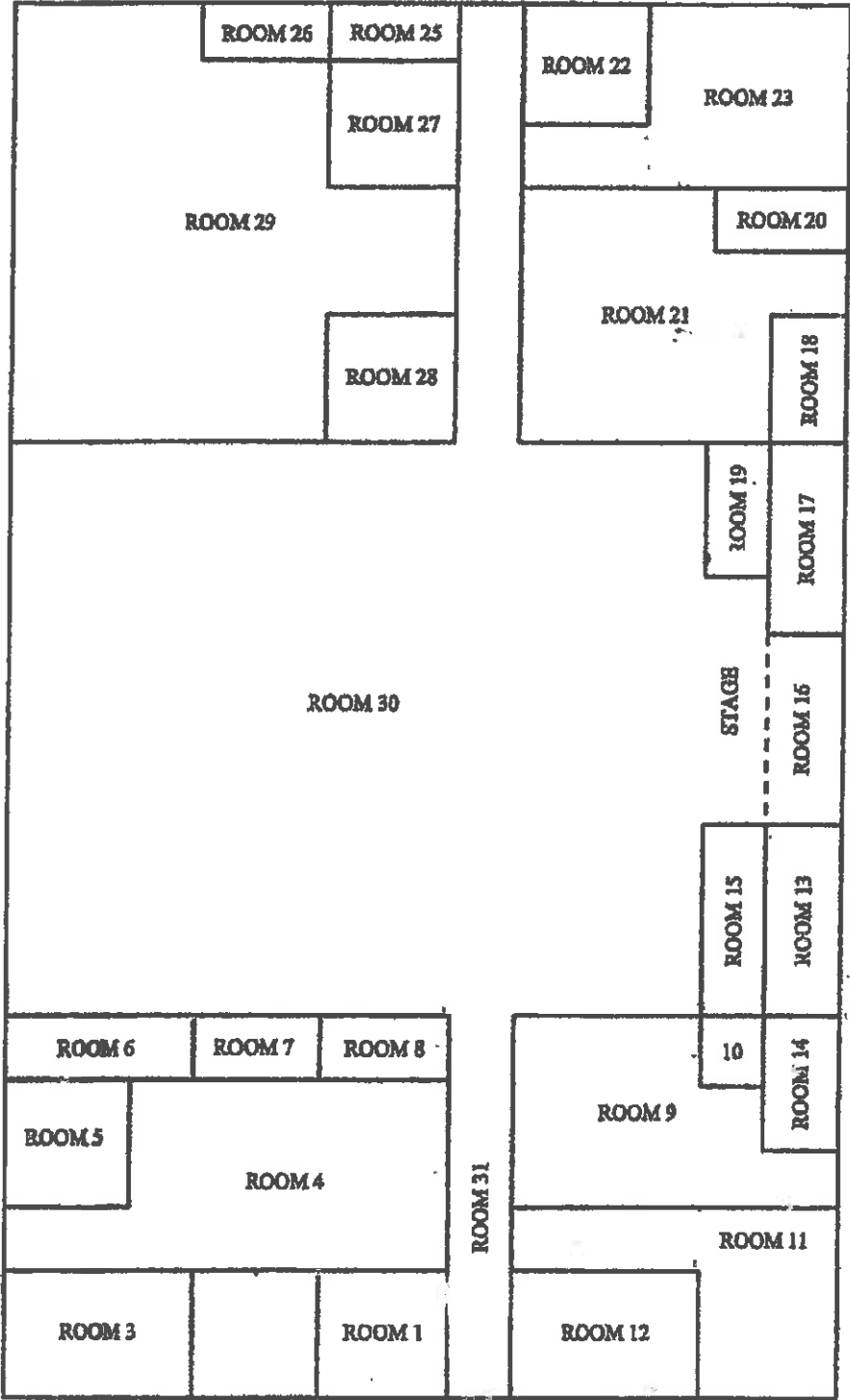
OWNER REPRESENTATIVE

Owner's Representative: Dustin Davidson
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson
Oklahoma City, OK 73101
(405) 702-5115 (Office)
(405) 702-5101 (Fax)
E-Mail: Dustin.Davidson@deq.ok.gov

ATTACHMENT 1

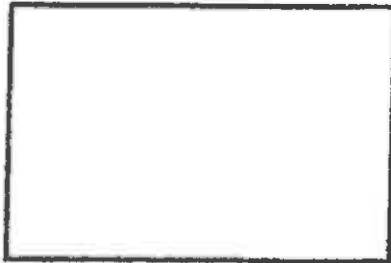
Floor Plan Map

McAlester Armory

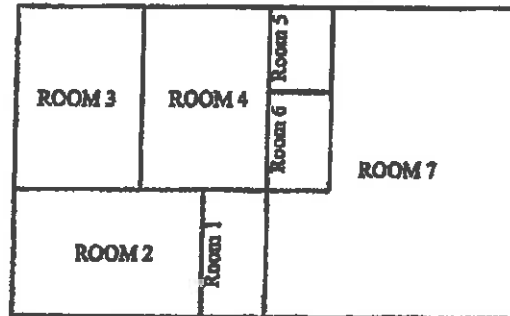


McAlester Armory Auxiliary Buildings

Building 2



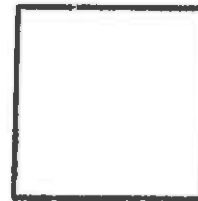
Building 3



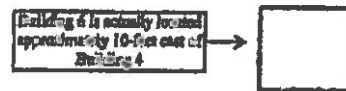
Building 4



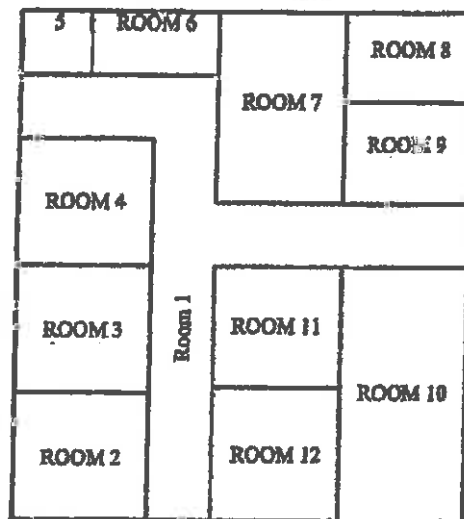
Building 5



Building 6



Building 7



ATTACHMENT 2

Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges

Departments of the Army and the Air Force
National Guard Bureau
Arlington, VA 22202-3231
3 November 2006

*NG Pam 420-15

Facilities Engineering

Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges

By Order of the Secretaries of the Army and the Air Force:

H STEVEN BLUM
Lieutenant General, USA
Chief, National Guard Bureau

Official:

GEORGE R. BROCK
Chief, Plans and Policy Division

History. This printing publishes a revision of NG Pam (AR) 385-16/ANGPAM 91-101.

Summary. This pamphlet prescribes policy for rehabilitation and conversion of National Guard Indoor Firing Ranges (IFR).

Applicability. This guidance applies to all persons responsible for the operation of National Guard IFRs. As no regulation/guidance can foresee all situations that might arise, the following is written in a broad scope and is intended to be interpreted so as to ensure compliance with all applicable Federal and State laws and regulations.

Proponent and exception authority. The proponent of this regulation is Chief, NGB-SG-IH. The proponent has the authority to approve exceptions to this regulation that are consistent with controlling law and regulation.

Suggested Improvements. Users of this pamphlet are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 22202-3231.

Distribution. A.

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- 1-1. Purpose
- 1-2. References
- 1-3. Explanation of abbreviations and terms
- 1-4. Policy and Procedures
- 1-5. Goal
- 1-6. Deviation

Chapter 2

Health and Medical Aspects

- 2-1. Health Effects
- 2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)
- 2-3. Air Monitoring

* This publication supersedes NP Pam (AR) 395-16/ANGPAM 91-101, dated 31 January 1994

- 2-4. Wipe Sampling Protocol and Media
- 2-5. Personal Protection Equipment

Chapter 3

Education, Maintenance, Cleaning and Conversion

- 3-1. Worker Education
- 3-2. Range Cleaning Instructions
- 3-3. Cleaning Stored Contaminated Equipment
- 3-4. Contaminated Sand and Lead Waste
- 3-5. Range Rehabilitation
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Appendixes

- A. References
- B. Protocol for Collecting Wipe Samples
- C. Sampling Strategy for Collection of Wipe Samples

Glossary

1-1. Purpose

This pamphlet establishes the policy and procedures for rehabilitation and conversion, of National Guard IFRs.

1-2. References

Required and related publications and referenced and prescribed forms are listed in Appendix A.

1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this publication are listed in the glossary.

1-4. Policy and Procedures

Indoor firing ranges can be safely rehabilitated or converted for other uses, such as a storage area, classrooms or office space, provided the following -

a. Prior to conversion active ranges must be thoroughly decontaminated and cleaned to acceptable levels. *All ranges converted prior to the publication date of this pamphlet, must be inspected and evaluated to determine lead contamination.* This will be accomplished by a certified National Guard Industrial Hygienist (IH) or a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.

b. The level of cleanliness is to be determined by sampling. The Occupational Safety and Health Administration's (OSHA) Technical Manual, 5th Edition, provides guidance on the methods and techniques needed to collect wipe samples (Appendix B).

(1) Wipe samples must be collected and analyzed prior to and after cleaning.

(2) Post-cleaning surface wipe sample results must be less than 200 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) (40 micrograms in the case of child exposure). The sampling strategy, which is the amount and location of wipe samples to be collected, is provided in Appendix C.

c. Equipment/items previously stored in the range must be decontaminated and cleaned to acceptable levels as determined by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.

(1) Samples must be collected from equipment/items stored in the range. Sample selection is critical, because the number of items stored, length of storage, and level of contamination differs from range to range. The amount and location of the samples should be representative of the areas where lead dust is most likely to accumulate. The more samples collected, the better the statistical comparison of the results.

(2) Samples must be collected from the smooth surfaces of the equipment/items, as much as possible. Results of samples collected from a rough surface will be inaccurate due to the minimal surface contact of the media. Further, the likelihood of tearing the media filter is greater on rough surfaces.

(3) Samples should also be collected on items stored the longest period of time, and which have not been disturbed. Items stored closest to the bullet trap and firing line are likely to have higher concentrations of lead dust.

1-5. Goal

To ensure that every IFR is free of lead dust which means to test less than 200 micrograms and to reduce the number of unsafe National Guard IFRs.

1-6. Deviation

Deviations from this guidance will require a written exception to policy from your Regional Industrial Hygiene Office. Questions and/or comments regarding this subject should be directed to your Regional Industrial Hygiene Office or Chief, National Guard Bureau, Office of the Joint Surgeon, ATTN: NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 22202-3231.

Chapter 2

Health and Medical Aspects

2-1. Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible, and common in the environment. Lead can enter the body by inhalation (breathing) or

ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)

a. Per 29 CFR 1910.1025 (j)(i-ii), Medical Surveillance - General, "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."

b. The DOD 6055.5-M, Occupational Medical Surveillance Manual - Table 2-1 lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

2-3. Air Monitoring

Worker breathing zone air samples must be collected to ensure that personnel are not overexposed to airborne lead during the cleanup phase. Daily air samples will be collected from all personnel involved in the cleanup operation. These exposure levels will be used to evaluate work practices and medical surveillance requirements.

2-4. Wipe Sampling Protocol and Media

A template measuring 10 centimeters by 10 centimeters square, approximately 4 inches square, should be used to accurately measure and mark the area before collecting wipe samples. Samples should be staggered to different areas of the range. A grid system should be utilized. Samples should not be collected all on one section of a wall, or end of the building. OSHA Technical Manual provides the necessary guidance on the technique needed to collect wipe samples (Appendix B). Only distilled or deionized water will be used to saturate dry sample media. At least one field blank must be submitted with every 10 samples. The field blank must be from the same lot, and labeled as a blank.

2-5. Personal Protective Equipment

29 CFR 1910.1025 (f) (2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f). As a minimum, personnel conducting the decontamination of the range will be provided with the following personal protective equipment.

a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:

- (1) Protective coveralls with hood and shoe covers or disposable Tyvek™ full body suit.
- (2) Disposable rubber gloves, and disposable shoe coverlets (if necessary).
- (3) Full-face air purifying respirator with P-100 cartridges.

b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.

c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.

d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).

e. The employer will ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.

f. The employer will further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.

g. The employer will ensure that the containers of contaminated protective clothing and equipment are labeled as follows: **CAUTION; CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.**

Chapter 3
Education, Maintenance, Cleaning and Conversion

3-1. Worker Education

a. 29 CFR 1910.1025, Appendix B, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program will be repeated annually for personnel in range cleanup operations.

b. The commander/supervisor will ensure that each soldier or Army National Guard (ARNG) employee is informed of the following:

- (1) The content of the standard and its appendices.
- (2) The specific nature of operations that could result in exposure to lead above the action level.
- (3) The purpose, proper selection, fitting, use and limitations of respirators.
- (4) The purpose and a description of medical surveillance program.
- (5) Eating and drinking are prohibited in lead contaminated areas.
- (6) Smoking and smoking materials will not be permitted in contaminated areas.
- (7) Soldiers and ARNG employees must wash their hands and other exposed skin whenever they leave the work area.
- (8) The engineering controls and work practices associated with the individual's job assignment.
- (9) The contents of any compliance plan in effect.
- (10) Instructions to soldiers and ARNG employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

3-2. Range Cleaning Instructions

a. Written procedures, such as a scope of work, or standing operating procedure that complies with all Federal, State and local regulations must be established prior to decontamination operations.

b. The range ventilation system will be in operation during range cleaning to ensure that a negative pressure environment is maintained. In the absence of mechanical ventilation system, all doors and windows will be sealed to eliminate fugitive emissions.

c. A High Efficiency Particulate Air (HEPA) filtered vacuum system, which is designed to collect loose surface lead dust particles, is the preferred method of cleanup. If a HEPA filtered vacuum is not available, the range can be cleaned using a wet method.

d. Prohibited methods include:

(1) Wet cleaning using high-pressure systems, since this method may embed the lead into the substratum and generate large quantities of hazardous waste

(2) Dry sweeping is not permitted.

e. All surface areas of the range must be cleaned. In addition, areas outside of the IFR where lead can be tracked must be cleaned.

f. The preferred progression of cleaning is from top to bottom and from behind the steel bullet trap to the firing line.

(1) Clean the steel bullet trap, areas in front of and behind the bullet trap, and the steel bullet trap plate(s), after removing the sand (if applicable).

(2) Clean the ceiling, floors, lights, baffles, retrieval system, heating system(s), and ventilation duct(s).

(3) Vacuum and remove acoustical material. *Painting over this material is not recommended.*

(4) Clean the floor the last, starting at the bullet trap and ending behind the firing line.

g. When using a HEPA filtered vacuum, vacuum all surface areas until no dust or residue is visible.

h. Any general purpose cleaning solutions can be used for the wet method. However, Spic and Span™ has been found to be an effective cleaning solution by other Army organizations. Mix new solutions of cleaning solution frequently. Wet wiping will require dual containers of water, one container for wetting the applicator (mops, rags, sponge, etc.) and the other container for rinsing the applicator after the dust has been wiped from the surfaces. After wet wiping all surfaces, permit the area to dry.

i. *Properly dispose of all hazardous waste. Do not place lead contaminated waste into the sewer system or onto the ground.*

(2) Mop-heads, sponges and rags will be discarded as hazardous waste following cleanup.

j. A thorough visual inspection to detect dust should be made following cleanup and prior to collecting post surface wipe samples.

k. Wood floors should receive a coat of deck enamel or urethane; concrete floors should be sealed with deck enamel.

l. As a variety of conditions exist in ranges, unique situation may arise and specific written guidance from your Regional Industrial Hygiene Office may be required.

m. Any cleaning activities must be under the supervision by a trained and competent personnel IAW with OSHA and other nationally accepted standards and the work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).

3-3. Cleaning Stored Contaminated Equipment

a. Equipment contaminated (sample result is higher than 200 ug/ft²) with lead dust must be decontaminated before it is removed from the range.

b. Equipment located near the bullet trap and firing line should be cleaned first and then removed. The cleaning method depends on the size of the equipment and the material it is comprised of, i.e. metal, wood, concrete, porous, non-porous, smooth or rough finish etc. However, either HEPA vacuum or the wet wipe method will be used. Refer to paragraph 3-2 for additional guidance.

c. Every attempt should be made to clean and reclaim items since disposing of equipment, as hazardous waste is costly and wasteful. Only as a last resort will the item be discarded as hazardous waste. Porous items, such as office partitions and carpet that were present during firing should be considered grossly contaminated and be discarded unless analysis proves otherwise. Consult your State Environmental Office for the proper hazardous waste disposal methods.

3-4. Contaminated Sand and Lead Waste

Consult your State Environmental Office for specific disposal guidance to ensure compliance with local laws and regulations.

3-5. Range Rehabilitation

This chapter applies to all IFRs that have been identified as candidates for rehabilitation. It provides further guidance for cleaning and/or sampling that might be required prior to the start of rehabilitation.

a. The portion(s) of the range to under go rehabilitation must be sampled to determine the level of lead contamination. Wipe samples will be taken per the established sampling protocol. See Appendix B.

b. All personnel involved in range rehabilitation will wear a NIOSH approved respirator (P-100) and proper personal protective equipment as prescribed in paragraph 2-5 above.

c. Prior to the start of rehabilitation, the environmental office must be notified to determine the disposition of any debris containing hazardous materials (lead).

d. Supervision shall be by a person who is certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer.

3-6. Conversion of Indoor Firing Ranges

Prior to the start of decontamination, employers must ensure that all procedures to be used comply with Federal, State, and local regulations. To ensure that all lead contamination is eradicated, the following procedure is established.

a. The State shall follow the project approval process as delineated in NGR 420-10 (or NGR 415-5 if the use of the military construction appropriation is required).

b. All ranges slated for conversion will be inspected and evaluated by the NGB Regional Industrial Hygiene Office.

- c. All equipment stored in the range, if applicable, prior to the start of decontamination must be sampled, decontaminated, re-sampled and removed or turned in as lead contaminated material.
- d. All acoustical tiles and/or sound proofing material (if applicable) must be removed and turned in as lead contaminated material through the environmental office.
- e. The bullet trap, target retrieval system and firing line stations must be removed and turned in as lead containing material through the environmental office.
- f. Light fixtures and ventilation system grills must be removed and decontaminated.
- g. Ventilation system ducts need to be decontaminated or removed and replaced.
- h. The exhaust fans and/or the complete ventilation air-handling unit (if applicable) must be decontaminated or removed to include roof fans.
- i. Cover all openings of any component previously decontaminated prior to start of interior decontamination of the firing range.
- j. Prior to start of washing, the interior of the range should be vacuumed with a HEPA filtered vacuum. The range should be washed using a cleaning solution of hot water and Spic and Span in five gallons of hot water. A progression of cleaning from top to bottom, and from back to front should be used. All surface areas of the range must be cleaned. Mix new solutions of water frequently. Washing will require dual containers of water; one container for wetting the applicators (mops, rags, sponges, etc.), and the other container for rinsing the applicators. *Properly dispose of all hazardous waste and do not place any lead contaminated waste into the sewer system or onto the ground.* Mop heads, sponges and rags will be discarded as hazardous waste following decontamination of the range. After completion of decontamination, and prior to taking clearance samples, the ventilation system must be run for a period of 36 hours. Wipe clearance samples will be taken from ceiling, walls and floors. The range will be considered clean if no clearance sample is greater than 200 ug/ft², if any sample is above 200 ug/ft², the range is not considered clean, the range will need to be re-washed until clearance samples are below 200 ug/ft².
- k. The regional industrial hygienist will do quality assurance sampling as needed.
- l. After obtaining clearance, the walls of the range will be coated with a sealant (Not Paint), which is smooth, wood floors will receive a coat of deck enamel or urethane, concrete floors will be sealed with deck enamel. After sealing, floors will be tiled or covered with linoleum.
- m. As a variety of conditions exist in ranges, unique situations may arise and specific written guidance from the Regional Industrial Hygiene Office may be required.
- n. All personnel involved in the decontamination/conversion of IFRs as a minimum will be provided with the following personal protective equipment.
- (1) Full Face air purifying respirator with HEPA cartridges. The requirements outline in 29 CFR 1910.134, must be met prior to placing workers in respiratory protection.
 - (2) Individuals will be provided personal protective equipment as required per paragraph 2-5, this pamphlet.
- o. Any conversion must be supervised by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).
- p. After conversion, lead testing shall continue on an annual basis to verify that no lead migration from the substrate is occurring.

**Appendix A
References**

**Section I
Required Publications**

There are no entries in this section

**Section II
Related Publications**

ASTM E1792-03
Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34
The Respiratory Protection Program

AR 40-5
Preventive Medicine

DODI 6055.5
Industrial Hygiene and Occupational Health

DOD 6055.5-M
Occupational Medical Surveillance Manual

29 CFR, Part 1910
Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130
Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15
Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415-5
Army National Guard Military Construction Program Development and Execution

NGR 420-10
Construction and Facilities Management Office Operations

Technical Manual, 5th Edition
Occupational Safety and Health Administration, Department of Labor

**Section III
Prescribed Forms**

There are no entries in this section

**Section IV
Referenced Forms**

There are no entries in this section

**Appendix B
Protocol for Collecting Wipe Samples**

- B-1. If multiple samples are to be collected at the work site, prepare a rough sketch of the area(s) or room(s), which are to be wipe sampled.
- B-2. A new set of clean, impervious gloves should be used for each sample to avoid contamination of the media by previous samples and to prevent contact with the substance.
- B-3. Wipe Samples
 - a. If using Ghost Wipes™, tear open the individually sealed package. Remove the moistened wipe. Unfold the wipe.
 - b. If using a dry media such as MCE or Whatman™ filter, moisten the filter with distilled or deionized water prior to sampling.
- B-4. Place a 10 centimeter by 10 centimeter template on the area to be wiped.
- B-5. Apply uniform firm pressure while wiping the area inside the template.
- B-6. To ensure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentric squares decreasing in size.
- B-7. After collecting a sample, fold the filter or wipe inward and place into a container and number it. Note the number at the sample location on the sketch.
- B-8. At least one blank filter treated in the same fashion but without wiping, should be submitted to the laboratory.

**Appendix C
Sampling Strategy for Collection of Wipe Samples**

- C-1. Prior to cleaning the ranges, three samples must be collected and analyzed for total lead dust on each surface, i.e., floor, ceiling, bullet trap, and wall to include the plenum wall, if applicable. In addition, a total of three samples should be collected from areas which have been least disturbed by airflow. Established walkways should be avoided.
- C-2. Samples should be collected from different areas of the range. A grid system should be utilized. Each range surface areas should be divided evenly into 3 by 3 sections. Samples should not be collected from only one section of a wall or end of the building.

Glossary

**Section I
Abbreviations**

ARNG
Army National Guard

CFR
Code of Federal Regulations

HEPA
High Efficiency Particulate Air

IFR
Indoor Firing Range

NIOSH
National Institute for Occupational Safety and Health

OSHA
Occupational Safety and Health Administration

ug/m²
Micrograms per square foot

**Section II
Terms**

Air monitoring
The sampling for and measuring of pollutants in the atmosphere.

Breathing zone
The imaginary globe of two feet radius surrounding the head.

General area
Collection of and later analysis of airborne contaminants in a given work environment. As the sampling pump and collection media are not attached to a worker, the concentrations found represent average concentrations in that area but may not be representative of the actual exposure of the worker.

HEPA
Refers to high efficiency particulate air filter systems capable of capturing up to 99.97 percent of particles 0.3 microns in size or larger.

Lead-Contaminated Range
It is assumed that all IFRs, which have been fired in, are lead-contaminated.

Respirator
A device designed to provide the wearer with respiratory protection against inhalation of airborne contaminants.

Wipe Sample
The terms wipe, swipe, or smear samples are used synonymously to describe the techniques utilized for assessing lead surface contamination.

ATTACHMENT 3

Health & Safety Aspects to Consider

Health & Safety Aspects to Consider

Project Goal: To ensure that former National Guard Armories are free of lead dust. Specifically, indoor firing ranges (IFR's) and other areas that contain lead contamination.

Please Note: the following information is from the Departments of the Army and the Air Force, National Guard Bureau, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (Attachment 2).

Health and Medical Aspects

Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible and common in the environment. Lead can enter the body by inhalation (breathing) or ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

Medical Surveillance for occupational Exposure to Lead

a. 29 CFR 1910.1025(j)(i-ii), Medical Surveillance - General: "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."

b. The DOD 6055.5-M, Occupational Medical Surveillance Manual - Table 2-I lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

Personal Protective Equipment

29 CFR 1910.1025(f)(2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134(b), (d), (e), and (f). As a minimum, personnel conducting the decontamination of the range shall be provided with the following personal protective equipment.

a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:

- (1) Protective coveralls with hood and shoe covers or disposable Tyvek™ full body suit.
- (2) Disposable rubber gloves; and disposable shoe coverlets (If necessary).
- (3) Full-face air purifying respirator with P-100 cartridges.

- b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
- c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
- d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
- e. The employer shall ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.
- f. The employer shall further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
- g. The employer shall ensure that the containers of contaminated protective clothing and equipment are labeled as follows: ***CAUTION: CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.***

Education, Maintenance, Cleaning and Conversion

Worker Education

a. 29 CFR 1910.1025, Appendix 13, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program shall be repeated annually for personnel in range cleanup operations.

b. The supervisor shall ensure that each individual employee is informed of the following:

- (1) The content of the standard and its appendices.
- (2) The specific nature of operations that could result in exposure to lead above the action level.
- (3) The purpose, proper selection, fitting, use, and limitations of respirators.
- (4) The purpose and a description of medical surveillance program.
- (5) Eating and drinking are prohibited in lead contaminated areas.
- (6) Smoking and smoking materials shall not be permitted in contaminated areas.
- (7) Employees must wash their hands and other exposed skin whenever they leave the work area.
- (8) The engineering controls and work practices associated with the individual's job assignment.
- (9) The contents of any compliance plan in effect.
- (10) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

REFERENCES

Section 1 Required Publications

There are no entries in this section

Section II Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34

The Respiratory Protection Program

AR 40-5

Preventive Medicine

DCDI 6055.5

Industrial Hygiene and Occupational Health

DOD 6055.5-M

Occupational Medical Surveillance Manual

29 CFR, Part 1910

Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130

Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15

Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415-5

Army National Guard Military Construction Program Development and Execution

NGR 420-10

Construction and Facilities Management Office Operations

Technical Manual, 5th Edition

Occupational Safety and Health Administration, Department of Labor Section III

ATTACHMENT 4

DEQ Approved Lead-Based Paint Encapsulants and Sealant Specifications

Lead-Based Paint Encapsulants

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK™
Dumond Chemicals	LEAD STOP™
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal™ I
Encap Systems Corporation	EncapSeal™ II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock™
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP™
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

KELLY-MOORE PAINTS INDUSTRIAL COATINGS HIGH PERFORMANCE SYSTEMS

KM-669 Acrylic Sealer

THIS PRODUCT MAY NOT BE AVAILABLE IN SOME AREAS DUE TO VOC REGULATIONS
Contact your Kelly-Moore representative for more information.

Product Description

A one component, solvent borne, high gloss, clear acrylic sealer designed for use on concrete, masonry, and brick. Dustproofs concrete by penetrating surface pores leaving a tough, durable film.

Performance Features

- Non-Yellowing
- Excellent Adhesion to Concrete
- Good Water & Salt Chemical Resistance
- Good Abrasion Resistance
- Can be Sprayed, Padded or Rolled

Product Specifications

Resin Type	Acrylic
Color Range	Clear
Finish	High Gloss
Drying Time	8 hours to recoat
Practical Coverage	250-450 Sq. Ft. / Gallon
Recommended Dry Film Thickness	1.2 - 2.2 mils per coat
Solids By Volume	35%
Sizes	Five gallon pails
V.O.C.	.560 Grams per liter
Clean Up	KM-S-74 or KM-SA-50

Surface Preparation

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Surface Preparation:

Remove all dirt, grease, oil, soil, chemical contaminants, and other matter. Allow surface to dry.

Application Procedure:

When mixing, use an EXPLOSION PROOF SLOW SPEED DRILL WITH A JIFFY MIXER. Apply a uniform wet film, do not puddle material. Do not cover more area than can be worked in 10 minutes due to fast dry time. When spraying, use a low pressure machine. Two coats may be necessary depending on porosity or type of service.

For safety and product curing, proper ventilation is necessary throughout application and cure.

Dry Times: 8 hours

See Precautions and Limited Warranty next page

KM-669 (cont.)

Precautions

KM-669 is Flammable. KM-669 contains flammable solvents. Keep away from all sources of ignition during mixing, application, and cure. In confined areas, provide adequate forced air ventilation. The use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream and protective clothing is a recommended standard practice when spraying coatings.

Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

Limited Warranty: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

SEE MATERIAL SAFETY DATA SHEETS FOR FULL SAFETY PRECAUTIONS.

KM-669 IS FOR PROFESSIONAL USE ONLY

KM-669 IS FOR INDUSTRIAL USE ONLY

KEEP AWAY FROM CHILDREN

KELLY-MOORE PAINT COMPANY INC. • 987 COMMERCIAL ST. • SAN CARLOS, CA 94070
Technical Assistance 1-888-MR-PAINT www.kellymoore.com

MATERIAL SAFETY DATA SHEET

For Coatings, Resins & Related Materials

Section I

Manufactured For: Kelly-Moore Paints
Address: 987 Commercial Street
San Carlos, CA 94070

Prep Date: 07/28/06

Emergencies Involving Spills, Leaks,
Fires, Exposure, Or Accident Contact
Chemtrec: 1-800-424-9300

Product Class: Acrylic Lacquer Sealer
Trade Name: KM-669 CLEAR
H.M.I.S. Codes: H F R P
2* 3 0 -

Information Phone: 1-888-677-2468

Section II - HAZARDOUS INGREDIENTS

Ingredient	C.A.S.#	Weight Percent	Occup. Exposure Limits		Vapor Pressure	
			OSHA PEL	ACGIH TLV	mm Hg	& Temp.F
Acrylic Resins	Mixture	30-40		Not Established	Not Determined	
*Xylene	1330-20-7	40-50	100 ppm	100 ppm	5.1	68
*Ethyl Benzene	100-41-4	15-20	100 ppm	100 ppm	7.1	68

*Indicates toxic chemical(s) subject to reporting requirements of Section 313 of Title III and of 40 CFR 372.

Section III - PHYSICAL DATA

Bolling Range (Deg. F): 240°
Evaporation Rate: Slower than Ether
Percent Volatile By Volume: 70 ± 3%

Vapor Density: Heavier than air

Weight Per Gallon (lbs.): 7.75 ± .25

Section IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (Deg. F): 80°

Lower Explosive Limit: 1.0

Extinguishing Media: Foam, alcohol foam, CO2, dry chemical, water spray

OSHA Flammability Classification: Flammable Liquid IC

Special Firefighting Procedures: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

KM-669 CLEAR

Section V - HEALTH HAZARD DATA

THIS PRODUCT IS FLAMMABLE

Effects Of Overexposure:

Eyes: Irritation, burning, tearing and redness.

Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact.

Ingestion: Abdominal pain, nausea, vomiting and diarrhea.

Inhalation: Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea and loss of consciousness.

Emergency & First Aid Procedures:

Eyes: Flush with water for 15 minutes.

Skin: Remove contaminated clothing, wash skin with soap and water.

Ingestion: Do not induce vomiting. Get medical attention immediately.

Inhalation: Move to fresh air, aid breathing if necessary.

In all cases, consult a physician for best treatment.

Chemical listed as carcinogen or potential carcinogen:

NTP: No IARC: No OSHA: No

Section VI - REACTIVITY DATA

Stability: Product Stable

Conditions to Avoid: All sources of ignition

Incompatibility (Materials to Avoid): Oxidizing agents, strong acids & bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides and organic compounds.

Hazardous Polymerization: Will Not Occur

Section VII - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Dike spill area. Absorb spill with inert absorbent material. Place in sealed metal containers for proper disposal.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Section VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use a NIOSH/MSHA jointly approved respirator

Ventilation: Use mechanical ventilation

Protective Gloves: Neoprene or rubber

Eye Protection: Chemical splash goggles

Other Protective Equipment: Protective clothing, barrier cream, eye bath, safety shower

Section IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storing: Store in dry area. Keep away from open flames and high temperatures.

Other Precautions: Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

State and Local Regulations

California Proposition 65

This product contains the following substances known to the State of California to cause cancer, birth defects or other reproductive hazards: Benzene, Toluene.

Your Store:
Midwest, OK

Your Store: Midwest City, OK



**Epoxy-Coat N/A 384 Fluid Ounce(s)
Interior High-Gloss Garage Floor
Epoxy Kit Light Gray**

Item #: 373248 | Model #: CK-1400

☆☆☆☆☆

\$249.97

**FREE
Store Pickup**

Your order will be ready for pickup from
Lowe's Of Midwest, OK by
11/05/2013.

Lowe's Truck Delivery

Your order will be ready for delivery to
you from Lowe's Of Midwest, OK by
11/08/2013.

Parcel Shipping

Unavailable for This Order
Sent by carriers like UPS,
FedEx, USPS etc.

**Epoxy-Coat N/A 384 Fluid Ounce(s)
Interior High-Gloss
Garage Floor Epoxy
Kit Light Gray** **\$249.97**

Description

N/A 384 Fluid Ounce(s) Interior High-Gloss Garage Floor Epoxy Kit Light Gray

- Commercial/industrial grade
- Lifetime warranty, 100% solids
- This kit contains: Part A & B, mixing bucket, prep solution, gloves, DVD, written instruction booklet, mechanical mixer, brush, squeegee, 9" roller cover, rake chips, aluminum oxide (non skid)
- Over 3 times stronger than concrete
- 4-8 times thicker than water-based epoxies
- Self-leveling

Specifications

Warranty	Limited Lifetime	Waterproof	Yes
Sheen/Finish	High-gloss	Number of Coats Recommended	2-0
Paint Color	Light Gray	Soap and water clean-up	No
Unit of Measure	Fluid ounce(s)	Low-odor formula	Yes
Unit of Measure Quantity	384.0	Mildew-resistant finish	Yes
Coverage (Sq. Feet)	500.0	Scrubble and washable finish	Yes
Base Material	Epoxy	Stain-Resistant	Yes
Color Family	Gray/Char	Fade-Resistant	Yes
Where to Use	Interior	UV-resistant	Yes
Tintable	No		Garage floor epoxy kit
Viscosity	Liquid	Paint and Primer in One	Yes
Primer Recommended	No	Container Size	5 gallons
Dry To Touch	18 Hours	Net Contents (Fluid Oz.)	384.0
Flammable	No	Series Name	N/A
Combustible	No		

ATTACHMENT 5

**Lead-Based Paint Inspection and
Settled Dust Sampling Report
For
McAlester Armory**

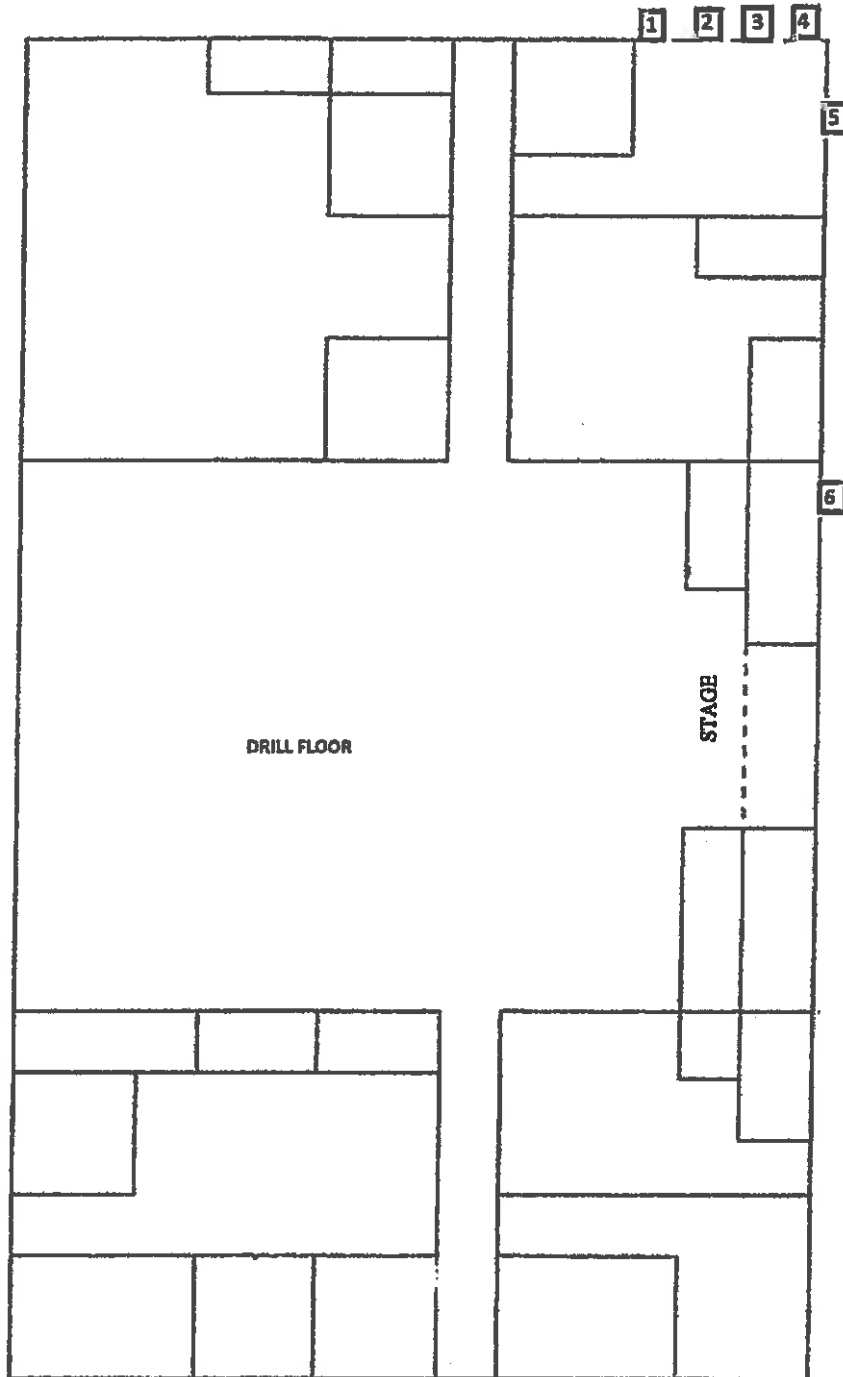
ATTACHMENT 6

Window Scope of Work Including Measurements and Specifications

McAlester Armory Window Measurements And Replacement Scope of Work

- **Window measurements are listed as approximate Width X Height; Contractor to field verify.**
 - **All window bars shall be removed and properly disposed.**
 - **All removed windows shall be properly disposed.**
 - **Window lintels and any remaining metal with lead-based paint shall be wet scraped and sealed with a DEQ approved encapsulant (See Attachment 3).**
 - **Interior and Exterior window sills shall be HEPA vacuumed and wet washed to remove remaining lead dust. Once loose paint and lead dust is removed, window sills shall be sealed with a DEQ approved encapsulant (See Attachment 3).**
 - **Attached is a McAlester Armory Floor Plan with designated window numbers that correspond with the numbers on this Scope of Work.**
 - **Specifications for replacement windows are attached.**
1. **2'2" X 7'9.5" - Lower portion of window to be 4ft single hung opening window with top remainder to be fixed mapes panel all within one frame unit.**
 2. **3'2" X 7'9.5" - Lower portion of window to be 4ft single hung opening window with top remainder to be fixed mapes panel all within one frame unit.**
 3. **3'2" X 7'9.5" - Lower portion of window to be 4ft single hung opening window with top remainder to be fixed mapes panel all within one frame unit.**
 4. **2'2" X 7'9.5" - Lower portion of window to be 4ft single hung opening window with top remainder to be fixed mapes panel all within one frame unit.**
 5. **3'2" X 7'10" - Lower portion of window to be 4ft single hung opening window with top remainder to be fixed mapes panel all within one frame unit.**
 6. **3'2" X 3'2" - Window to be replaced with non-opening window.**

McALESTER ARMORY
WINDOW MAP



SECTION 08520 - ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submit Product Data and Shop Drawings.
- B. Product Substitution: Substitutions include products differing from those required by this specification.
 - 1. Submit two (2) copies of each request for product substitution. Identify product to be replaced and provide complete documentation showing compliance of proposed substitution with applicable requirements. Include a full comparison with the specified product, and a list of changes to other Work required to accommodate the substitution.
 - 2. Submit requests for product substitution in accordance with the time allotted to do so by the Scope of Work included within the Bid Solicitation.
 - 3. State of Oklahoma, Department of Environmental Quality will review the proposed substitution and notify bidder of its acceptance or rejection within the time allotted to do so by the Scope of Work included within the Bid Solicitation.
- C. Structural Performance: Provide systems, including anchorage, capable of withstanding loads indicated for project location.
 - 1. Main Frame-Member Deflection: Limited to 1/175 of clear span for spans up to 13 feet 6 inches and to 1/240 of clear span plus ¼ inch for spans greater than 13 feet 6 inches or an amount that restricts edge deflection of individual glazing lites to ¼ inch, whichever is less.
 - 2. Structural-Testing: Systems tested according to ASTM E 330 at 150 percent of inward and outward wind-load design pressures do not evidence material failures, structural distress, deflection failures, or permanent deformation of main framing members exceeding 0.2 percent of clear span.
- D. Air Infiltration: Limited to 0.06 cfm/sq. ft. (0.3 L/s per sq. m) of system surface area when tested according to ASTM E 283 at a static-air-pressure difference of 6.24 ibf./sq. ft.
- E. Water Penetration: Systems do not evidence water leakage when tested according to ASTM E 331 at minimum differential pressure of 20 percent of inward acting wind load design pressure but not less than 10 ibf./sq/ ft.
- F. Condensation Resistance Factor (CRF): The unit(s) shall be tested in accordance with AAMA 1502 and shall have a condensation resistance factor of no less than 48.
- G. Average U-Value: Not more than 0.69 btu./sq. ft. x h x degree F when tested according to AAMA 1503.
- H. Sound Transmission: Provide aluminum-framed systems with fixed glazing and framing areas having minimum STC 32 according to ASTM E 413 and an OTIC 26 according to ASTM E 1332, as determined by testing according to ASTM E 90.
- I. Installer Qualifications: Installer must be a third party professional window installation company that is certified and recommended by the window manufacturer of the windows being installed.
 - a) Installer must have no less than five (5) years of installation experience.
 - b) Installer must have experience with the removal of steel casement windows.
- J. Warranty Requirements: Submit written warranties from window manufacturer for the following:
 - 1. Windows: Warrant against malfunctions due to defects in thermal breaks, hardware, materials and workmanship for a period of (10) ten years.
 - 2. Glazing: Glass shall be warranted as follows:
 - a) Insulating glass units to remain sealed for (10) ten years,
 - b) Laminated glass units to remain laminated for (5) five years,
 - c) Polycarbonate to remain clear and ultraviolet light stabilized for (5) five years,
 - d) Insulating plastic to not have more than (6) six percent decrease in light transmission and be ultraviolet light stabilized for (10) years.
 - 3. Finish: Warrant against chipping, peeling, cracking, and blistering for (10) ten years.
 - 4. Spandrel Panels: Warrant against malfunctions due to defect in finish, materials and workmanship for a period of (5) years.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers:** Subject to compliance with requirements, manufacturers offering products that are considered acceptable and may be incorporated into the Work included, but not limited to, the following:
- 1. Peerless**
 - 2. Quaker**
 - 3. Wojan**
 - 4. Thermal Windows, Inc.**

2.2 ALUMINUM WINDOWS

- A. Single hung:** Series 4000-4 Model 4140/4158 or approved equal.
- 1. Thermal brake**
 - 2. Screen cloth insect screens**
 - 3. Color: Dark Bronze**
- B. Fixed:** Series 4000-4 model 4170, or approved equal.
- 1. Thermal brake**
 - 2. Screen cloth insect screens**
 - 3. Color: Dark Bronze**
- C. Glazing:**
- 1. All glass I.G. units shall be constructed to an overall minimum thickness of 1" with two lites of 3/16" glass specified. Exterior lite AFG 3/16" TI-AC 40 on #2 surface 5/8" Air Space / Interior lite 3/16" clear.**
 - 2. All insulated glass units shall be tested, certified and carry the respective CBA level certification on the glass spacer.**

2.3 SPANDREL PANELS

- A. Spandrel Panel shall be Mapes 1" insulated panel of 5-ply, 2ld density polystyrene core.**
- 1. Finish: Polyester baked enamel on embossed aluminum, both sides.**
 - 2. Color: Dark Bronze.**

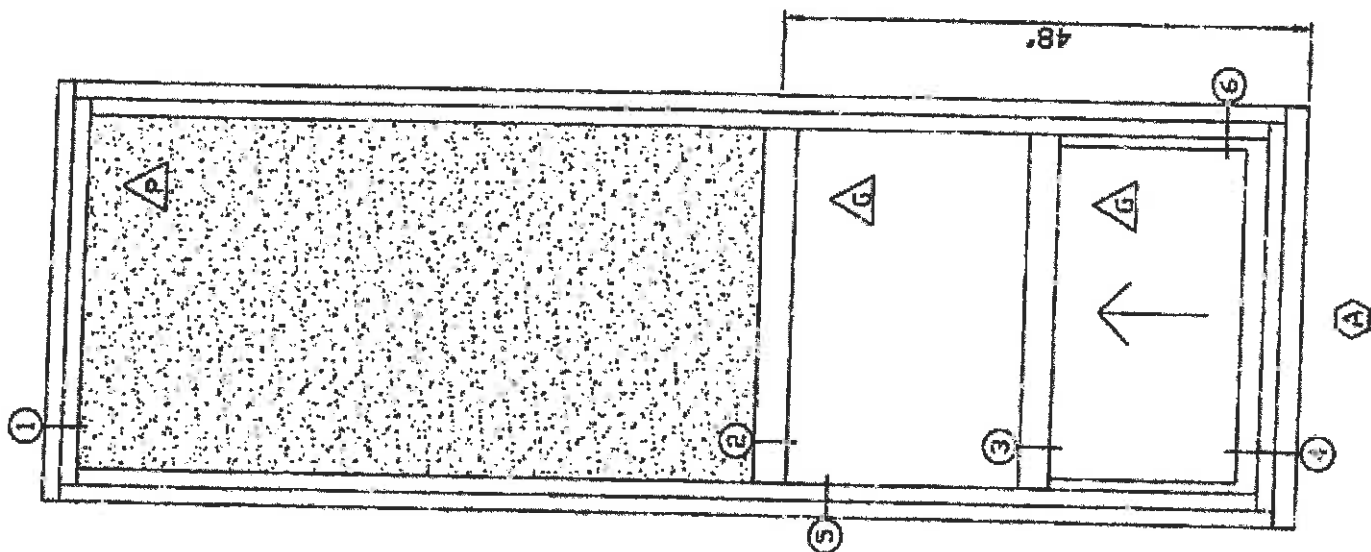
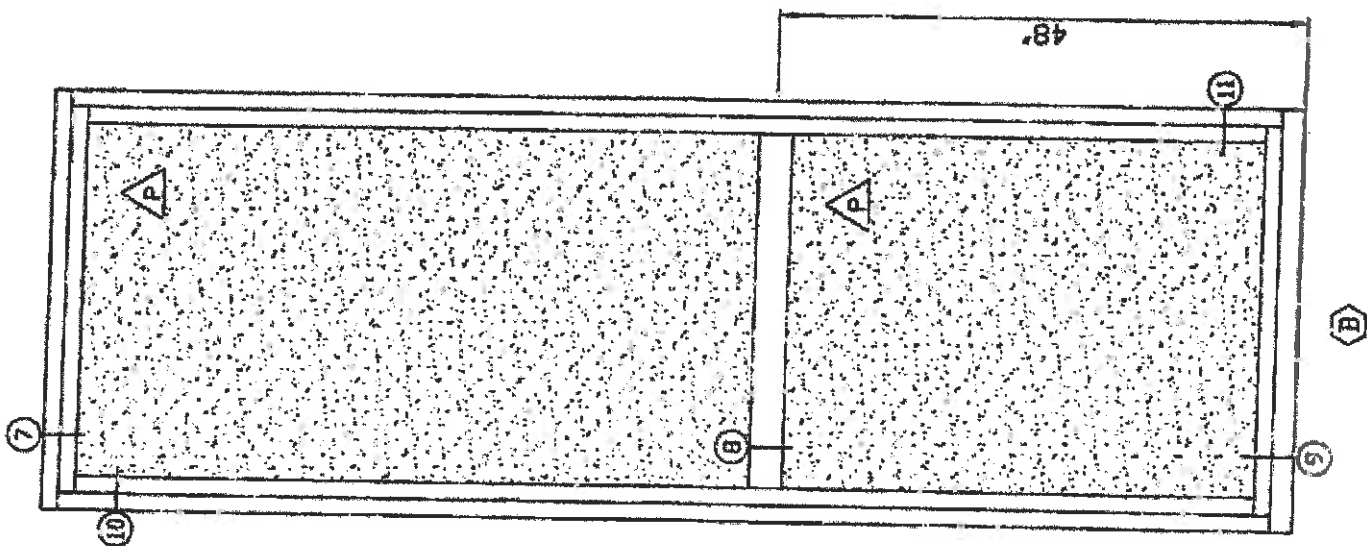
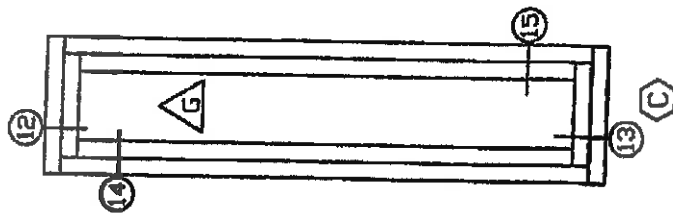
2.4 FINISH

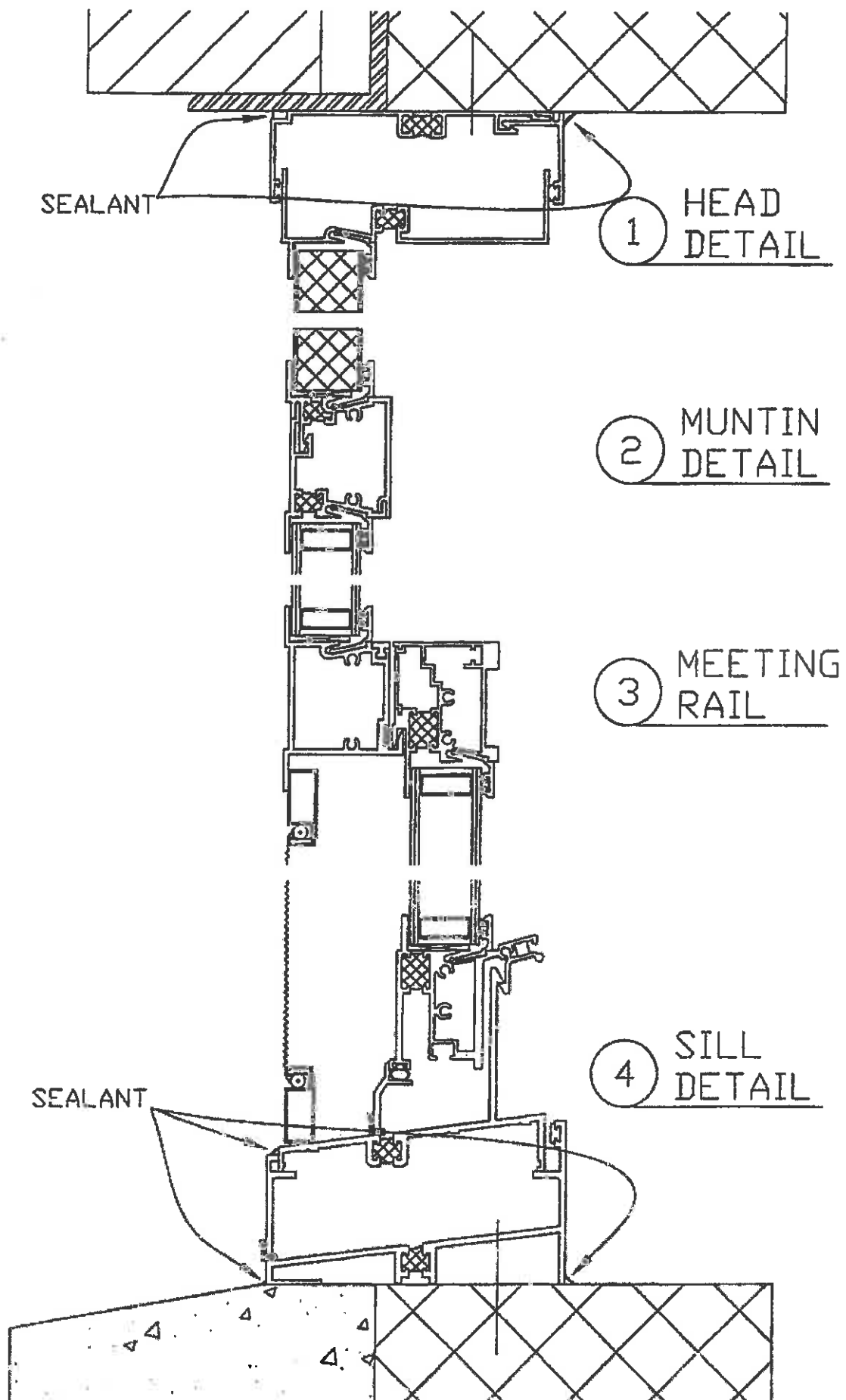
- A. Organic coating tested and certified by window manufacturer to comply with the AAMA 2605. Application must be by the window manufacturer.**

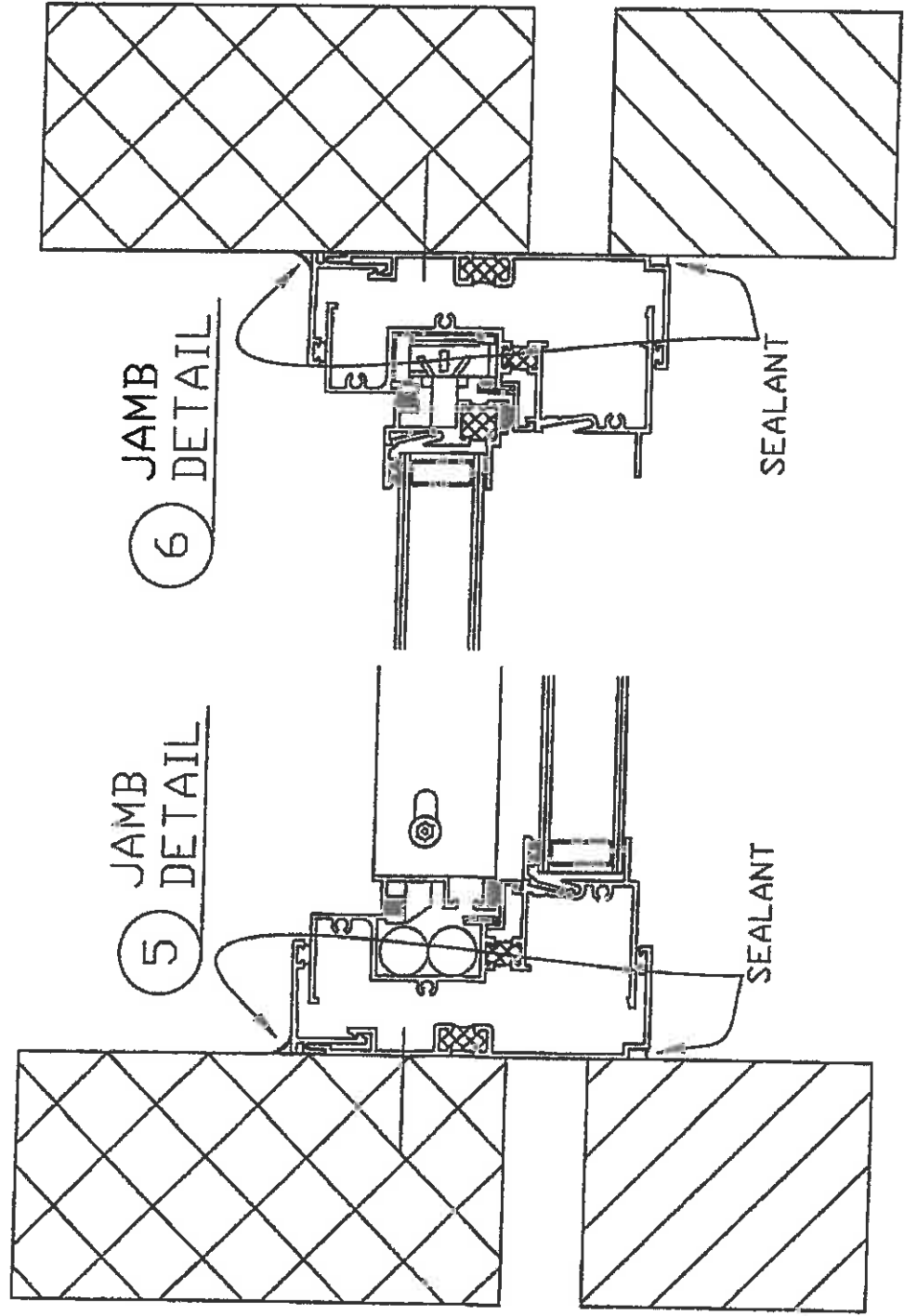
PART 3 – EXECUTION

3.1 INSTALLATION

- A. Provide all hardware, operators, anchors, clips, limit devices, and other components necessary for a complete and weather tight installation per window manufacturer's specification and recommendations for installation.**
- B. Clean all surfaces with manufacturer approved cleaner. Remove any glazing or sealant compounds, dirt and other substances.**





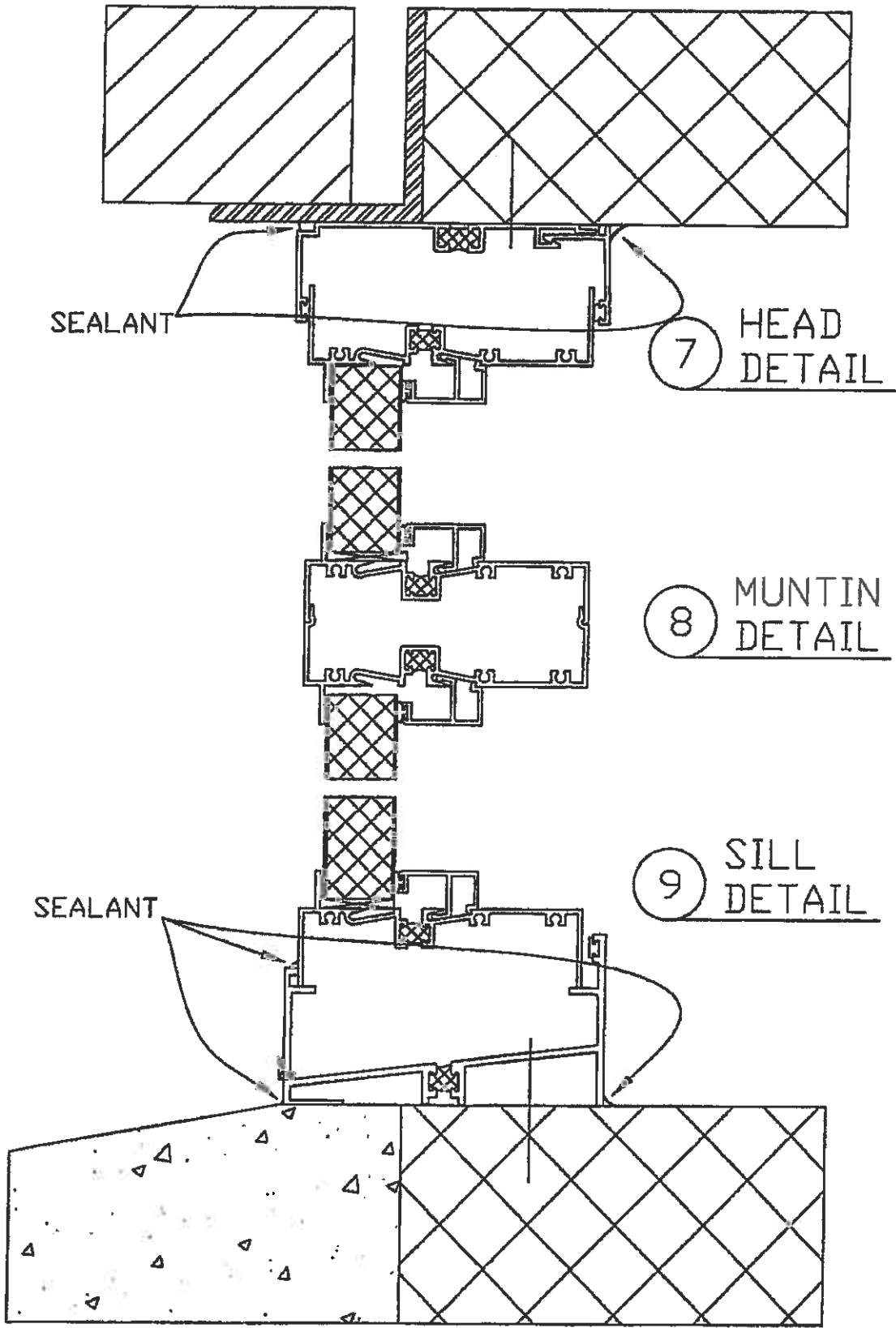


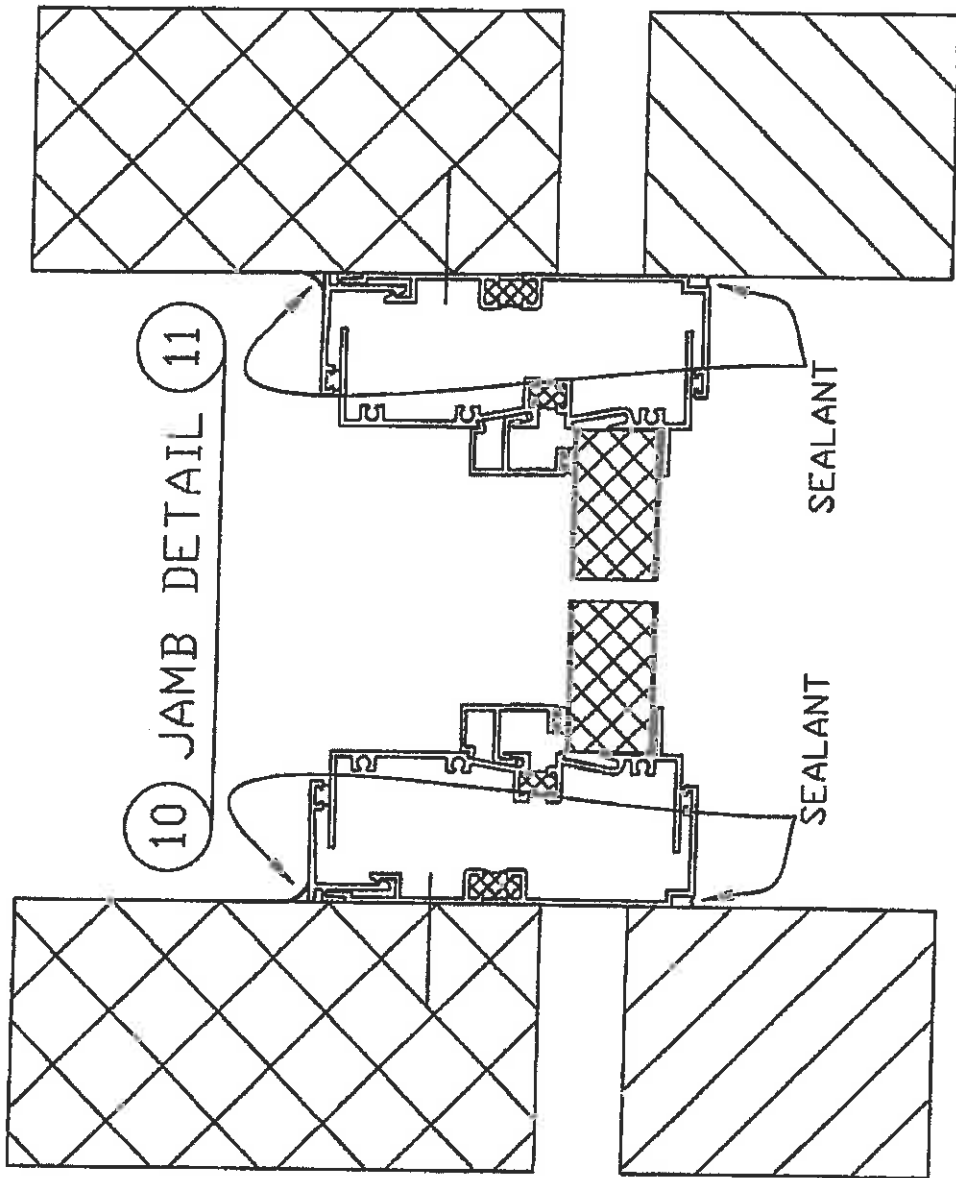
5 JAMB
DETAIL

6 JAMB
DETAIL

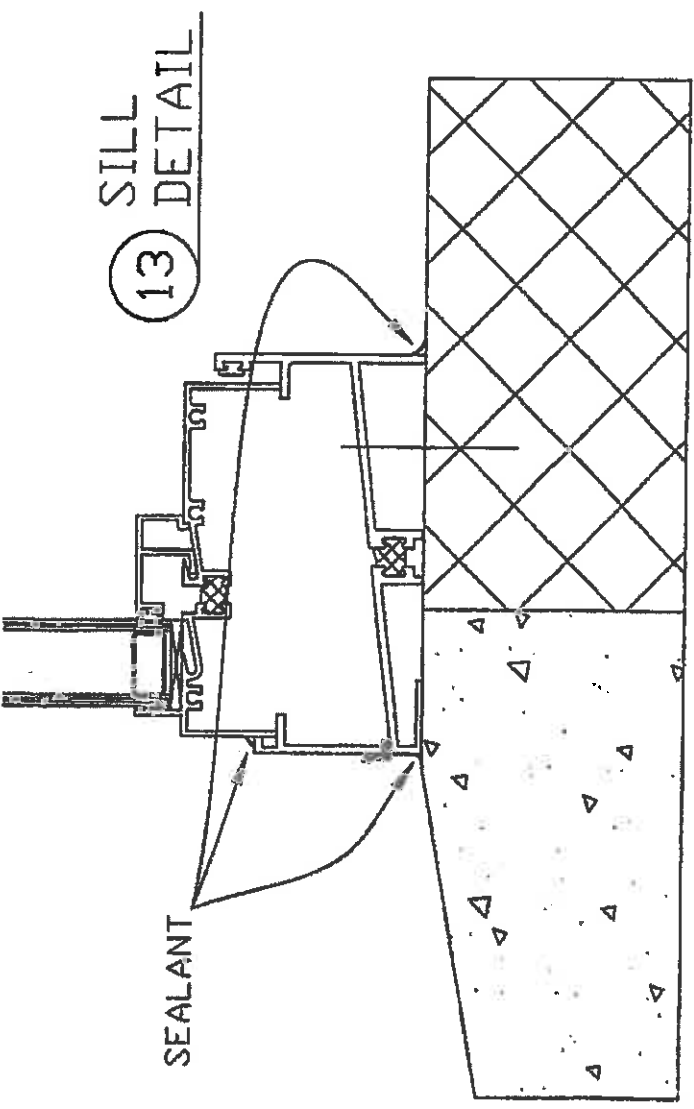
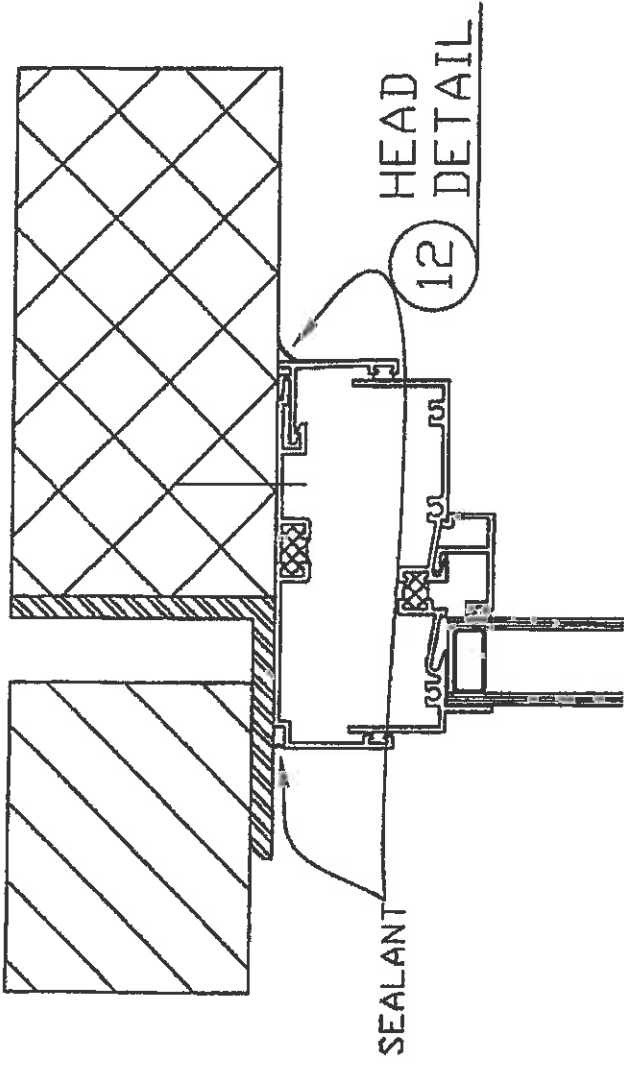
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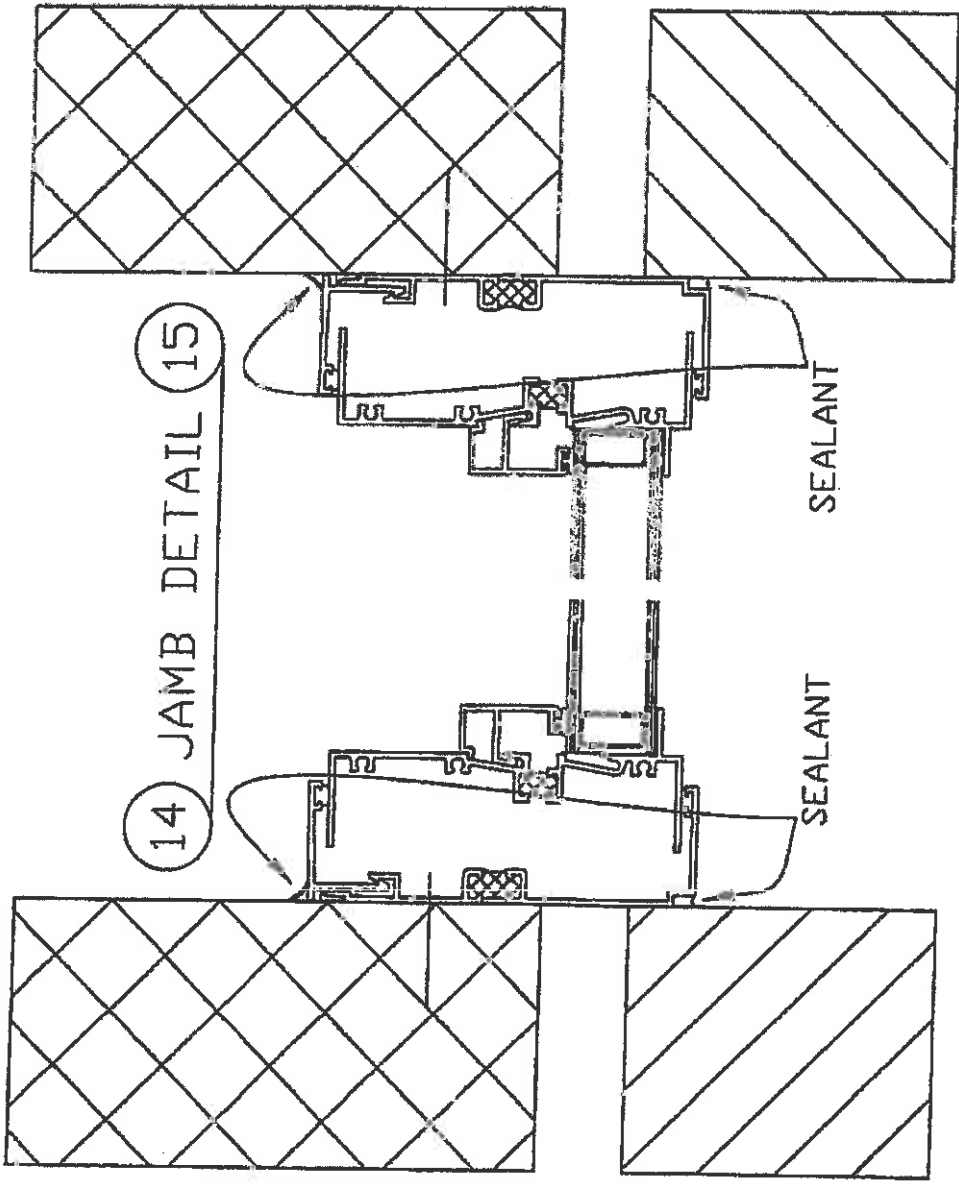
SEALANT





10 JAMB DETAIL 11





14 JAMB DETAIL 15

ATTACHMENT 7

Door Scope of Work Including Measurements and Specifications

McAlester Armory Door Measurements And Scope of Work

- **Door measurements are listed as approximate Width X Height; Contractor to field verify.**
- **All removed doors will be properly disposed.**
- **All removed lead-based paint will be properly disposed.**
- **Attached is a McAlester armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.**
- **Specifications for replacement doors are attached.**

1. Remove double doors. Remove all paint from door frame. Install replacement doors equipped with continuous gear hinges. Original frame will be painted with a neutral colored primer.
Double Door Measurements -- 5' X 6'11"
2. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements -- 3' X 7'
3. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements -- 4' X 7'
4. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements -- 3' X 7'
5. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements -- 4' X 7'
6. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.

7. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'8" X 6'6"
8. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
9. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
10. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'8" X 7'
11. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
12. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
13. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'9" X 6'10"
14. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'9" X 6'10"
15. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
16. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'

17. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
18. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
19. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 4' X 7'
20. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 6'11"
21. Remove double doors. Remove all paint from door frame. Install replacement doors equipped with continuous gear hinges. Original frame will be painted with a neutral colored primer.
Double Door Measurements – 5' X 6'11"
22. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
23. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'6" X 6'8"
24. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
25. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'8" X 7'

26. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.

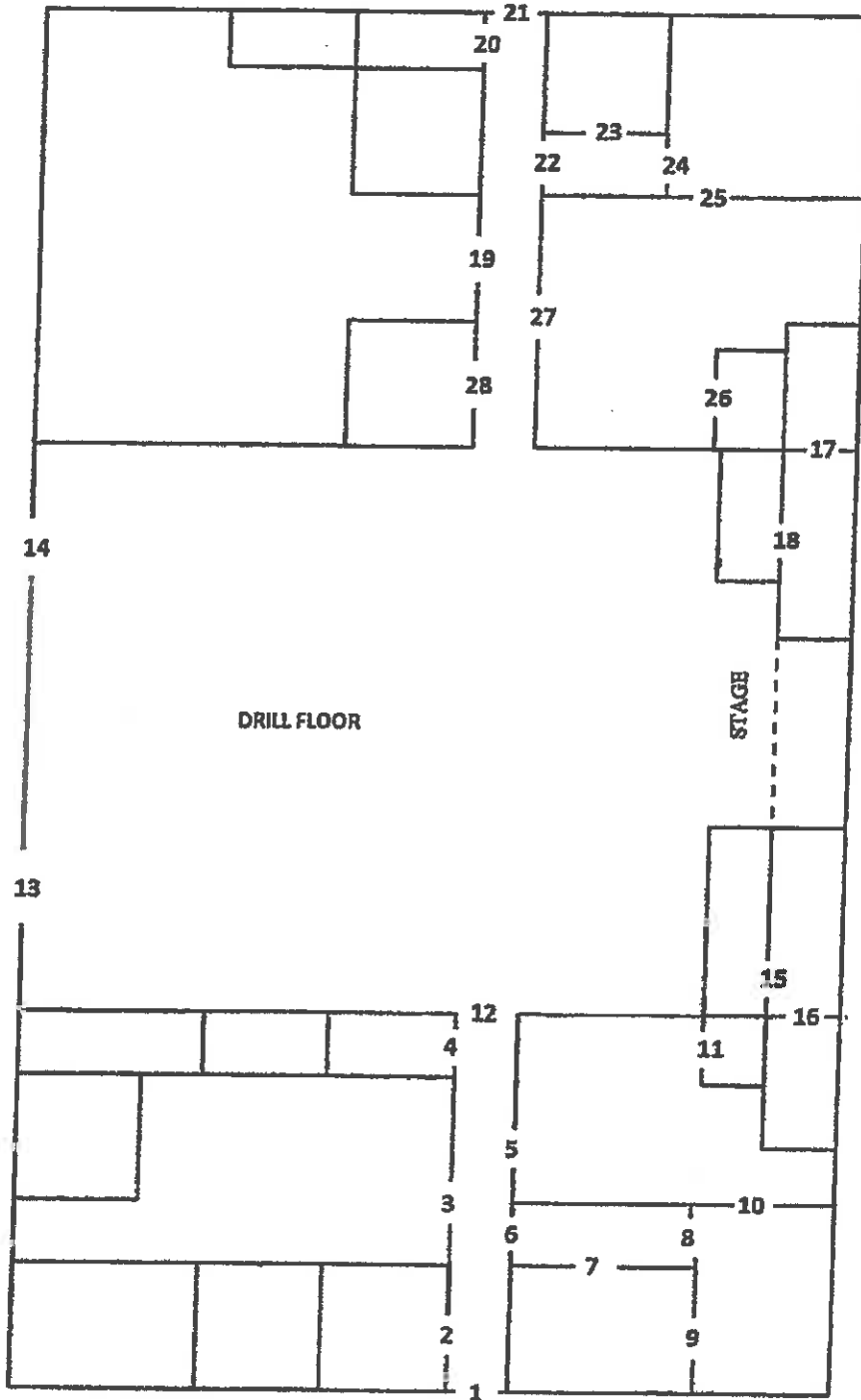
27. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.

Door Measurements – 4' X 6'11"

28. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.

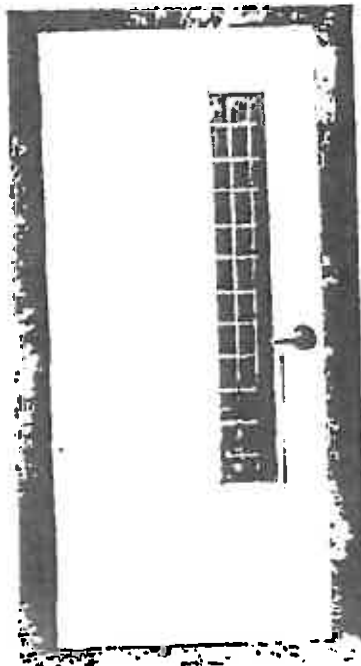
Door Measurements – 3' X 6'11"

McALESTER ARMORY
DOOR MAP



STEELCRAFT

L18 AND L16-SERIES HONEYCOMB DOORS



ABOUT THE PRODUCT:

The L18 and L16-Series Flush Doors are designed to meet the architectural requirements for full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

FEATURES AND BENEFITS:

Steelcraft's L-Series Doors offer the following standard unique features, which enhance long term performance and durability.

1. Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight.
2. Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the door edges.
3. Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
4. 14 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse.
5. Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
6. Recessed DazignTM glass trim provide a clean, neat, and flush finish with the door surface.
7. Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

1. Door construction for the Steelcraft L18 and L16-Series Full Flush Doors meet the requirements of **ANSI A250.8-1998** (commonly referred to as **SDI-100**).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The L-Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing **ASTM E152** and **UL-10B** and positive pressure standards **UBC 7-2** and **UL-10C**.

Steel Thickness	Opening	Usage Frequency ¹	Frame Applications
16 gage (1.3mm)	Interior & Exterior	Extra-heavy duty	• 16 & 14 gage steel frames
18 gage (1mm)	Interior & Exterior	Heavy duty	• 16 gage steel frames
Steel Type ²	Opening	Building Applications	
Non Galvannealed ³	Mainly Interior	• Typical building conditions	
Galvannealed ³	Mainly Exterior	• Used in locations with high humidity and/or weather exposure	

MATERIAL:

Depending on environmental conditions, exterior doors are generally galvannealed and interior doors non galvanneal. All doors are supplied with a factory applied baked on primer for field applied finish paints.

¹ Usage frequency is based on ANSI A250.8-1998

² Reinforcements for galvannealed doors are also galvannealed

³ Commercial quality carbon steel

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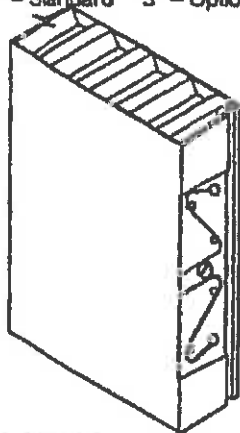
Details are subject to change without prior notice.

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Spec Manual
Rev. 5.2002

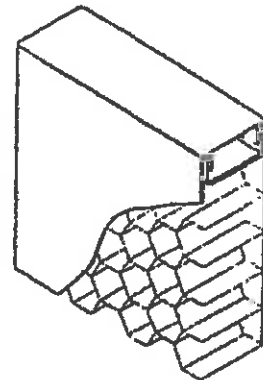
L1-1

Universal Mortise Hinge Prep 4 1/2" - Standard 5" - Optional

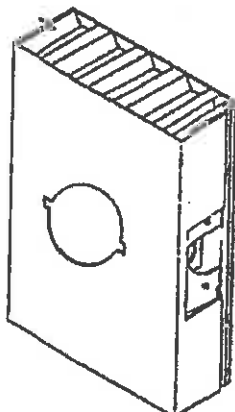


7 Gage Hinge Reinforcement

Optional Snap-In Top Cap

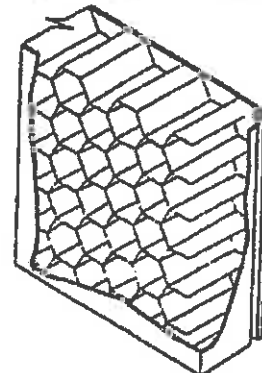


Lock Prep

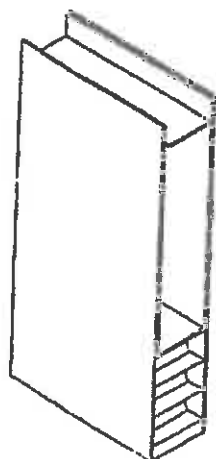


161 Cylindrical Lock shown

Rigid Honeycomb Core

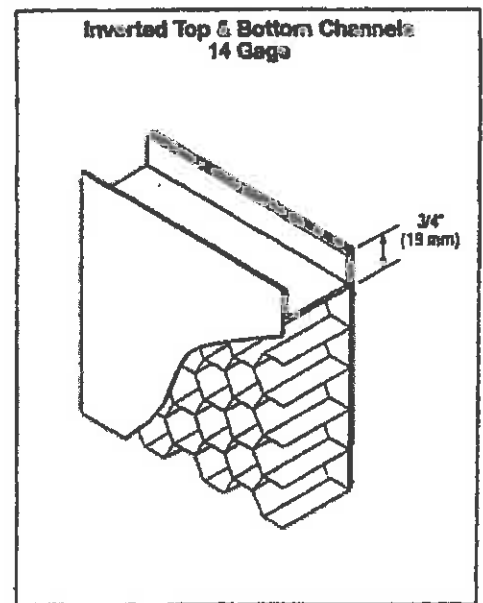
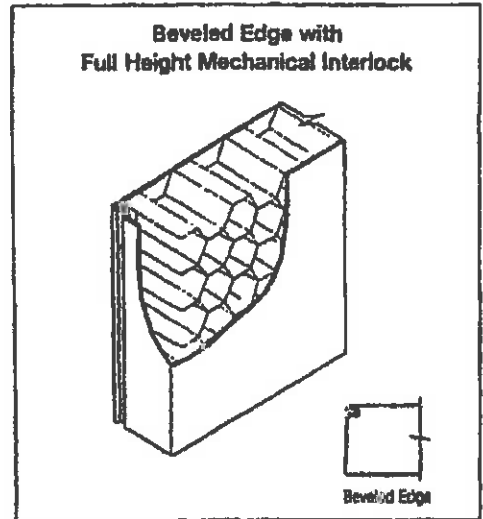
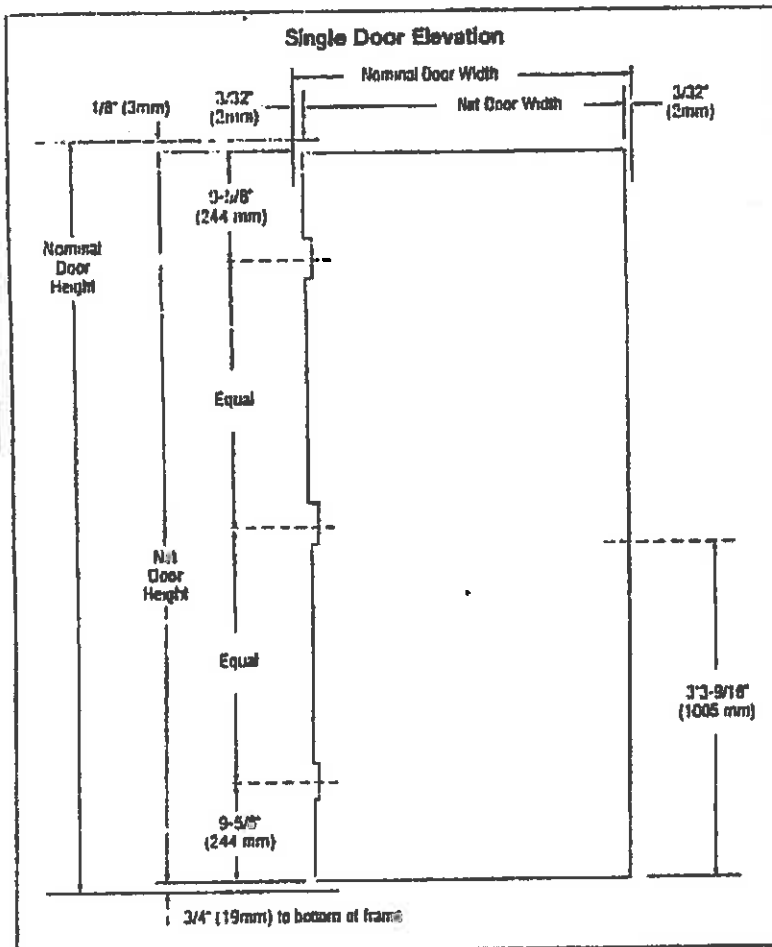


Optional 14 Gage Closer Reinforcement



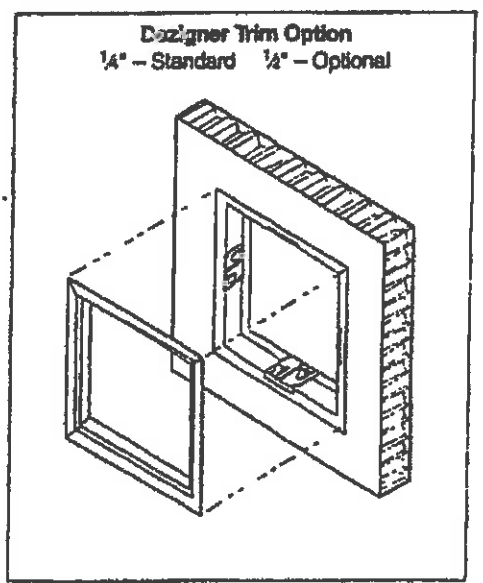
GENERAL NOTES:

1. Edge construction:
 - Vertical edges (both hinge and lock) are beveled with a visible seam.
 - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
2. Optional edge seams available in the L-Series door construction are as follows:
 - LF - The mechanical edge seam is filled and finished prior to applying the factory primer.
 - LW - The mechanical edge seam is welded and finished prior to applying the factory primer.
3. Optional cores available in the L-Series door construction:
 - Polystyrene for exterior applications in extreme weather conditions.
 - Polyurethane for exterior applications in arctic weather conditions. Not Fire Rated.
4. Standard hardware preparations: standard mortised and reinforced for:
 - Universal hinge prep - 4 1/2" (114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
 - Locks - A multitude of standard lock preps are available. The most commonly used with a 4 7/8" (124mm) strike are 161, 61L and 85.



CONSTRUCTION NOTES:

- Doors are $1\frac{3}{4}"$ (45mm) thick.
- Door opening size maximum:
Single door opening size $4'0" \times 10'0"$ (1219mm x 3048mm)
Double door opening size $8'0" \times 10'0"$ (2438mm x 3048mm)
- Standard operating clearances (installed in frame):
Head = $1/8"$ (3mm) to bottom of head or transom panel
Hinge and lock side = $3/32"$ (2mm) to rabbet on jamb
- Standard core system:
 $1"$ (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
- Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
 - Lock preps - details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located $3/8"$ (9mm) lower.
- Glass lites with Designer[®] trim and louvers: doors with glazed cutouts and doors with louvers are available (see *Lites and Louvers* section of *Spec Manual*).



INSTALLATION:

1. Installation shall conform to the published Steelcraft installation instructions, SDI 105 *Recommended Installation Instructions for Steel Frames*, and ANSVDHI A115-IG *Installation Guide for Doors and Hardware*.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

DOOR EDGE APPLICATIONS:

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edge	Usage	Application
L	Heavy & Extra-heavy duty	High traffic in all commercial applications
LF	Heavy & Extra-heavy duty	High traffic, in sanitation conditions
LW	Heavy & Extra-heavy duty	High traffic, in sanitation and high abuse conditions

CONVERSION CHART

ANSI A250.8 (SDI 100) *Recommended Specification for Standard Steel Doors and Frames*.

Series	Level	Model	Description	Edge Construction
L18	2	1	Full Flush	Full height, visible mechanical interlocked edge
LF18	2	2	Seamless	L-Series with epoxy filled edge seams
LW18	2	2	Seamless	L-Series with welded edge seams
L16	3	1	Full Flush	Full height, visible mechanical interlocked edge
LF16	3	2	Seamless	L-Series with epoxy filled edge seams
LW16	3	2	Seamless	L-Series with welded edge seams

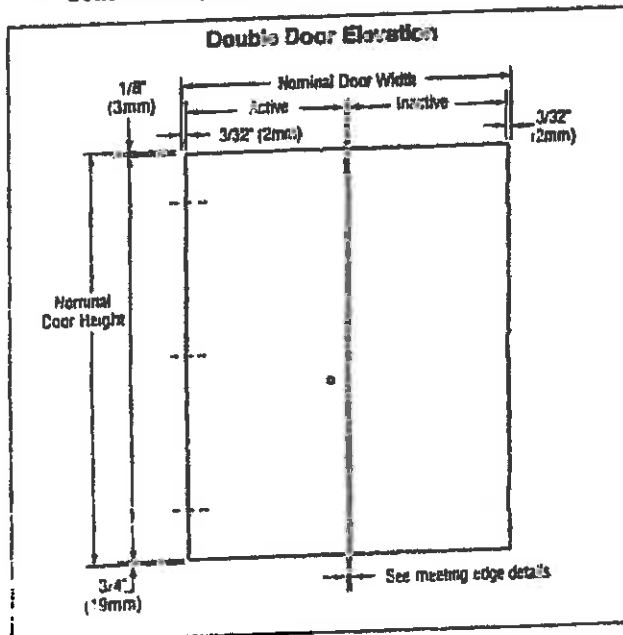
DOUBLE DOOR APPLICATIONS:

L-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

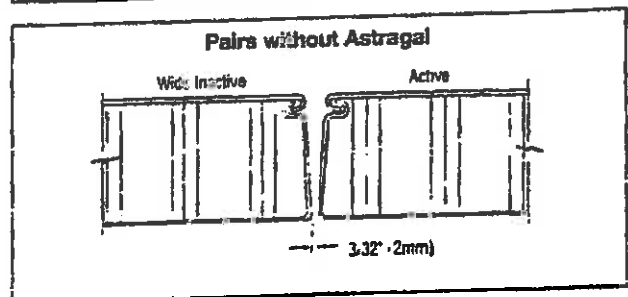
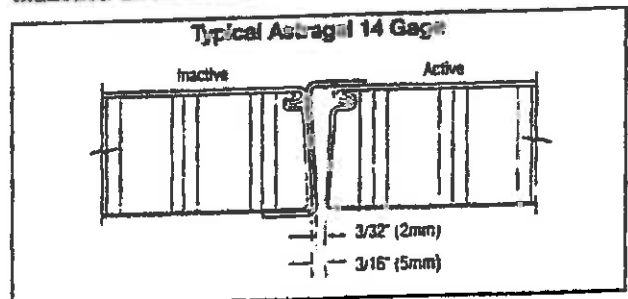
- Standard operating clearances (installed in frame):
 - Head = $\frac{1}{8}$ " (3mm) to bottom of head or transom panel
 - Hinge side = $\frac{3}{32}$ " (2mm) to rabbet on jamb
 - Meeting edges = $\frac{3}{32}$ " (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf is used.
 - Bottom = $\frac{3}{16}$ " (1.9mm) to bottom of frame

Meeting edges:

- 14 Gage astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- When an astragal is not used, the width of the inactive leaf is increased $\frac{3}{32}$ " (2mm).
- Hardware preparations: the inactive leaf can be prepared for hardware as specified.



MEETING EDGE DETAILS:



Pemko Manufacturing Company
5535 Distribution Drive
Memphis, TN 38141
Phone: (800) 824-3018
Fax: (800) 243-3656
E-mail: pemkosales@pemko.com
www.pemko.com

**SECTION 08710
DOOR HARDWARE
(CONTINUOUS GEARED DOOR HINGES)**

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Continuous Geared Door Hinges.**

Specifier Note: Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. Add section numbers and titles per CSI *MasterFormat* and specifier's practice. In the absence of related sections, delete paragraph below.

- B. Related Sections:**

1. Division 6 Section(s): Wood Frames.
2. Division 8 Section(s): Steel Doors, Wood Doors, Sound Control Doors, Aluminum Frame Storefront Doors.
3. Division 10 Section(s): Compartments and Cubicles, Partitions.
4. Division 13 Section(s): Special Facilities, Integrated Construction, Special Structures, Special Purpose Rooms.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

1.02 REFERENCES

- A. ASTM International:**

1. ASTM E2074 Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies.

- B. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):**

1. ANSI/BHMA A156.18 Materials and Finishes.
2. ANSI/BHMA A156.26 Standards for Continuous Hinges.

- C. American National Standards Institute/Steel Door Institute (ANSI/SDI):**

1. ANSI A250.8/SDI-100 Recommended Specifications for Standard Steel Doors and Frames.

- D. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):**

1. ANSI/WDMA I.S.1-A Architectural Wood Flush Doors.

- E. Federal Government:**

1. U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG), 1992.
2. Federal Standard FED-STD-795-1988 (Revised 1989) Uniform Federal Accessibility Standards.

- F. Underwriters Laboratories, Inc. (UL):**

1. UL 10B Fire Tests of Door Assemblies.

2. UL 10C Fire Tests of Door Assemblies.
 3. UL 752 Bullet Resistant Equipment.
- G. International Code Council (ICC):
1. UBC 7-2 Fire Test of Door Assemblies (Positive Pressure).
 2. International Building Code (IBC) Code 2000 (Positive Pressure).
 3. ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.
- H. British Standards (BS):
1. BS 476 Fire Tests on Building Materials and Structures.
- I. National Fire Protection Association (NFPA):
1. NFPA 1 Fire Prevention Code.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

1.03 SYSTEM DESCRIPTION

- A. Design Requirements: Provide continuous geared door hinges which have been manufactured, fabricated and installed to meet the following design criteria:
1. Continuous geared configuration, designed to distribute loads uniformly.
 2. Identical operation in each leaf, designed to reduce door opening effort.
 3. UL labeled for 3 hour fire classification.
 4. Durability tested to ANSI/BHMA A156.26 Grade 1, 2, 3.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Shop Drawings: Provide drawings indicating required component locations, installation interface with adjacent materials, anchorage, fastening and similar information.
- D. Samples: Submit one each of manufacturer's standard selection samples.
- E. Quality Assurance/Control Submittals: Submit the following:
1. Test Reports: Upon request, submit [Fire] [And] [Durability] test reports from recognized testing laboratory.
 2. Certificates: Submit manufacturer's certificate that products meet or exceed specified requirements.
- F. Closeout Submittals: Submit the following:
1. Warranty documents specified herein.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section and authority having jurisdiction. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

- B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies.]

1. [Code agency name].
 - a. [Report or approval number].
- C. Certifications: [Specify requirement for certifications.].
- D. Field Samples: [Specify requirement for field samples.].
- E. Mock-Ups: [Specify requirements for mock-up.].
 1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
 2. If mock-up is not retained, remove and properly dispose of mock-up.

Specifier Note: Retain paragraph below if preinstallation meeting is required.

- F. Preinstallation Meetings: [Specify requirements for meeting.].

Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

1.07 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

Specifier Note: Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: Warranty for life of door opening, beginning with date of substantial completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 CONTINUOUS GEARED DOOR HINGES

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain, edit or delete paragraph below to suit project requirements and specifier practice.

- A. Manufacturer: Pemko Manufacturing Company.
 1. Contact PO Box 3780, 4226 Transport Street, Ventura, CA 93003; Telephone: (800) 283-9988, (805) 642-2600; Fax: (805) 642-4109; E-mail: pemkosales@pemko.com; website: www.pemko.com.
- B. Proprietary Products/Systems: Continuous Geared Door Hinges, including the following:
 1. Continuous Geared PemkoHinges:
 - a. Material: Extruded tempered aluminum.
 - b. Material Standard: 6063-T6 alloy.
 - c. Configuration: Three interlocking extrusions in pinless assembly, installed to full height of door frame.
 - d. Finish (ANSI/BHMA A156.18): [Clear anodized] [Dark anodized] [Gold anodized].
 - e. Type: [Full mortise] [Full surface] [Half surface] [Full mortise residential: 1 3/4 inches (45 mm)] [Full

- mortise residential. $3/8$ inches (35 mm)] [Special full mortise] [Je throw full mortise].
- f. Length: [79 inches (2007 mm)] [83 inches (2108 mm)] [85 inches (2159 mm)] [95 inches (2413 mm)] [120 inches (3048 mm)].
 - g. Hinge Options: [Safety] [Short leaf flush] [Short leaf inset] [Standard] [Safety short leaf inset] [Center pivot].
 - h. Electrical Modifications: [Specify electrical modifications.].
 - i. Strength: [Standard Duty: 14 bearings each leaf for 83 inch (2108 mm) hinge, minimum door weight 280 lb (127 kg)] [Heavy Duty: 27 bearings each leaf for 83 inch (2108 mm) hinge, minimum door weight 540 lb (245 kg)].
 - j. Mortise Fasteners: TEK, #12 x 3/4 inch, FHUC, Phillips head screws.
 - k. Fire Label Certification: Comply with ASTM E2074, NFPA 1, UBC 7-2, BS 476, UL 10B, UL 10C, [90 minutes for wood doors] [3 hours for hollow metal doors].
 - l. Testing Standard: Tested according to ANSI/BHMA A156.26.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Comply with the instructions and recommendations of the continuous geared door hinge manufacturer.

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.02 EXAMINATION

- A. Site Verification of Conditions:

1. Verify that site conditions are acceptable for installation of continuous geared door hinges.
 - a. Examine doors and frames for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction and other conditions affecting performance.
 - b. Ensure frame is square and plumb before installation.
 - c. Examine roughing-in for electrical wiring connections.
2. Do not proceed with installation of continuous geared door hinges until unacceptable conditions are corrected.

Specifier Note: Specify actions required to physically prepare the surface, area or site or to incorporate the primary products of the section.

3.03 PREPARATION

- A. Wood Door Preparation: Comply with ANSI/WDMA I.S.1-A.
- B. Steel Door and Frame Preparation: Drill doors and frames for hardware per manufacturer's installation instructions. Comply with ANSI A250.8/SDI-100.

Specifier Note: Coordinate article below with manufacturer's recommended installation requirements.

3.04 INSTALLATION

- A. Mounting Location: Comply with the following requirements, unless otherwise indicated:

1. Steel Doors and Frames:
 - a. Comply with ANSI A250.8/SDI-100.
 - b. Ensure frames are properly sized, plumb and square.

- c. [Specify standard or specific requirements.]
- 2. Wood Doors:
 - a. Comply with ANSI/WDMA I.S.1-A.
 - b. Ensure doors are properly sized, plumb and square.
 - c. [Specify standard or specific requirements.]
- B. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
- C. Space fasteners and anchors according to manufacturer's product instructions.

Specifier Note: Specify the final actions required to prepare installed equipment or other completed work to properly function or perform.

3.05 ADJUSTING

- A. Perform adjustments required to ensure that continuous geared door hinges function in compliance with manufacturer's performance criteria prior to acceptance by Owner.
 - 1. Adjust door control devices to compensate for final operation of HVAC system and to comply with accessibility requirements.

Specifier Note: Specify the final actions required to clean installed equipment or other completed work to properly function or perform. Coordinate article below with Division 1 Execution Requirements (Cleaning) Section.

3.06 CLEANING

- A. Remove any protective films and clean components as necessary following manufacturer's recommended procedures.

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by Owner. Coordinate article below with Division 1 Execution Requirements Section.

3.07 PROTECTION

- A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION



ASSA ABLOY

**PEMKO HINGE™ CONTINUOUS GEARED HINGES:
HALF SURFACE SAFETY HINGES:
STANDARD**

HS_SF BRMA

AVAILABLE FINISHES: BL, C, D, PW, SN

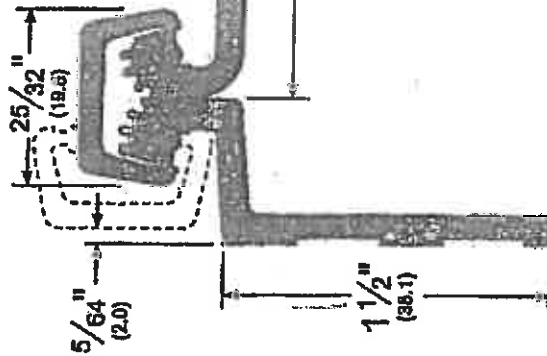
WIDTH: 2" (50.8 mm)

(between frame leaf and door leaf edge)

CAP WIDTH: 25/32" (19.8 mm)

HEIGHT: 1-1/2" (38.1 mm)

(frame edge side - leaf)



BL (Black Anodized) - special request only

C (Clear Anodized)

D (Dark Bronze Anodized)

PW (Painted White) - special request only

SN (Satin Nickel Anodized)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

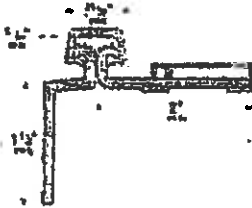
COMMENTS:

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HS_SF_CUT Rev 2 - 10.04.10

_HS_SF

Pemko's standard duty anodized aluminum Half Surface Safety continuous geared hinges are designed mainly for retrofit work in child care and nursing facilities and are applied to the exposed surface of the frame rabbet. Also available in heavy duty models.



[Enlarge Image](#)

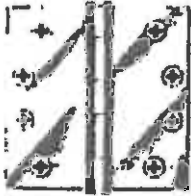
- ☐ Designed for use with hollow metal frames, where the inset conforms to S.D.I. specifications for signing doors and frames.
- ☐ Allows for adjustments in order to properly align the edge of the door to the frame.
- ☐ BL (Black Anodized) and PW (Painted White) are special finishes available upon request.
- ☐ Fasteners - Frame Portion - All fasteners are #12-24 x 7/16" FHUC, Type C, threadforming.
- ☐ Standard model: 16 fasteners required for each leaf.
- ☐ Wood screws available on request (specify an order).
- ☐ Fasteners - Door Portion - a. Thru-bolt - 1/4-20 x 1-5/8". - Standard Duty Hinges - 4 required. - b. Shoulder Bolt - 1/4-20 x 1" PCH. - Standard Duty Hinges - 4 required. - c. Pan Head Self Drilling #12 x 3/4". - Standard Duty Hinges - 6 required.
- ☐ Standard duty hinge. 6" between bearing centers.
- ☐ Standard duty hinges conform to Grade 3-150 and Grade 3-300 cycle requirements per BHMA standard ANSI/BHMA A156.26-2006.
- ☐ Aluminum continuous hinge for use on swinging type fire doors of the hollow metal, (in-clad, sheet metal and steel covered composite type rated up to 3 hours, wood covered composite type rated up to and including 1-1/2 hours. Also wood core rated up to and including 20 minutes without hose stream.
- ☐ PemkoHinge products are guaranteed for the life of the opening against defects in material or workmanship with the exception of AL, RS, standard duty and Grade 3 hinges, which carry a 10 year warranty.
- ☐ Weight bearing (per BHMA standard ANSI/BHMA A156.26-2006) for standard models: 83" and 85" = 14 bearings, door weight = 280 lbs.; 95" = 16 bearings, door weight = 320 lbs.; 120" = 20 bearings, door weight = 400 lbs.
- ☐ Width: 2" (50.8 mm) (between frame leaf and door leaf edge).
- ☐ Cap Width: 25/32" (19.8 mm).
- ☐ Height: 1-1/2" (38.1 mm) (frame edge side - leaf).



[Ratings Explained](#) | [View Finishes](#)

☐ CHSSF	C - Clear Anodized Aluminum
☐ DHSSF	D - Dark Bronze Anodized Aluminum
☐ GHSSF	G - Gold Anodized Aluminum, (Special Order Finish)
☐ BLHSSF	BL - Black Anodized Aluminum, (Special Order Finish)
☐ PWHSSF	PW - Painted White Aluminum, (Special Order Finish)
☐ SNHSSF	SN - Satin Nickel Anodized Aluminum, (Special Order Finish)

Five Knuckle



Plain Bearing - Standard Weight

For use on medium weight doors or doors requiring low frequency service

- 1191** Brass with Stainless Steel pin
- ANSI A2133
- Stainless Steel with Stainless Steel pin
- ANSI A5133

- 1279** Steel with Steel pin
- ANSI A8133

- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinges

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Mech	Wood
2 x 2	51 x 51	0.053	4	-	3/4 x 8
2 1/2 x 2 1/2	64 x 64	0.089	6	-	3/4 x 8
3 x 3	76 x 76	0.097	6	-	1 x 9
3 1/2 x 3 1/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 4 1/2	114 x 114	0.134	8	1/2 x 12-24	1 1/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 4 1/2	127 x 114	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	1 1/4 x 12
6 x 4 1/2	152 x 114	0.160	10	1/2 x 1/4-20	1 1/2 x 14
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	1 1/2 x 14
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	1 1/2 x 14

Five Knuckle



Plain Bearing - Standard Weight - Wide Throw

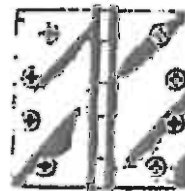
For use on medium weight doors or doors requiring low frequency service

- 1191** Wide Throw
Brass with Stainless Steel pin
- ANSI A2133
- Stainless Steel with Stainless Steel pin
- ANSI A5133

- 1279** Wide Throw
Steel with Steel pin
- ANSI A8133

- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Mech	Wood
3 1/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
3 1/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	1 1/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	1 1/4 x 12
4 x 7	102 x 178	0.129	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 5	114 x 127	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 7	114 x 178	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 8	114 x 203	0.134	8	1/2 x 12-24	1 1/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	1 1/4 x 12



Concealed Bearing - Standard Weight

For use on medium weight doors or doors requiring medium frequency service

- C51191** Stainless Steel with Stainless Steel pin
- ANSI A5112

- Non-rising removable pin with button tip and plug
- Only available with SecureCoat® Lifetime finish (US3SC)
- Specify machine screws

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Mech	Wood
3 1/2 x 3 1/2	89 x 89	0.119	6	-	1 x 9
4 x 4	102 x 102	0.129	8	-	1 1/4 x 12
4 1/2 x 4	114 x 102	0.134	8	-	1 1/4 x 12
4 1/2 x 4 1/2	114 x 114	0.134	8	-	1 1/4 x 12
5 x 4	127 x 102	0.145	8	-	1 1/4 x 12
5 x 4 1/2	127 x 114	0.145	8	-	1 1/4 x 12
5 x 5	127 x 127	0.145	8	-	1 1/4 x 12
6 x 4 1/2	152 x 114	0.160	10	-	1 1/2 x 14
6 x 5	152 x 127	0.160	10	-	1 1/2 x 14
6 x 6	152 x 152	0.160	10	-	1 1/2 x 14



NATIONAL GUARD PRODUCTS, INC.

Vinyl Seals

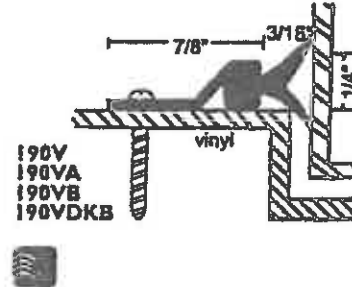
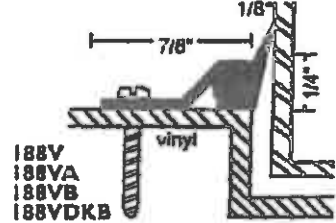
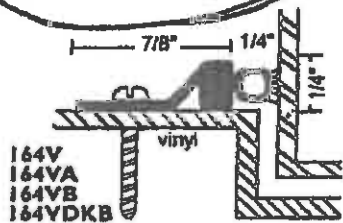
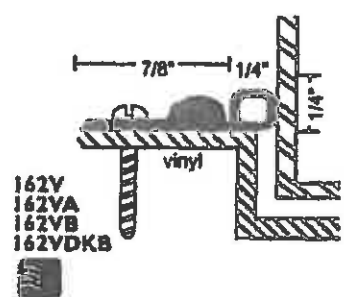
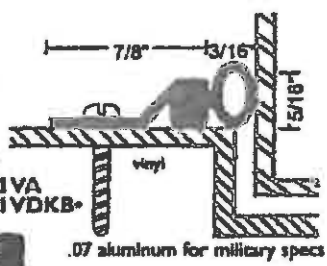
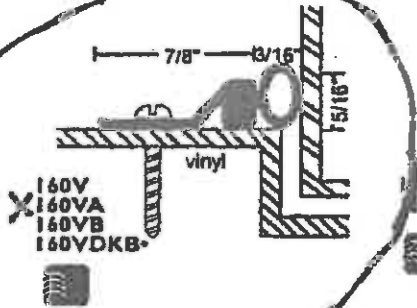
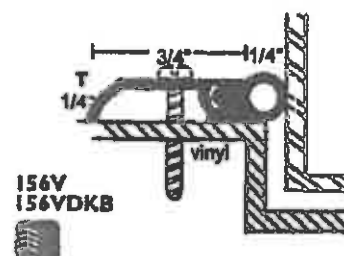
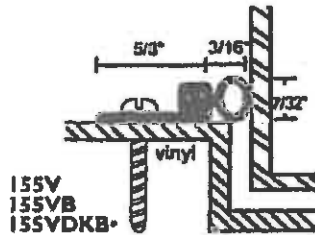
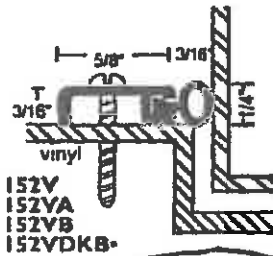
Properties:

- Synthetic polymer: Polyvinyl Chloride
- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0F to 140F
- Plasticizers evaporate with age and exposure to UV, Cold, Heat causing hardening, loss of memory, loss of resilience, cracking and crazing

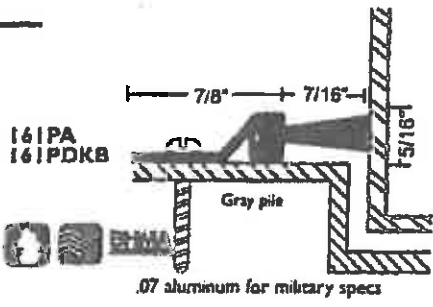
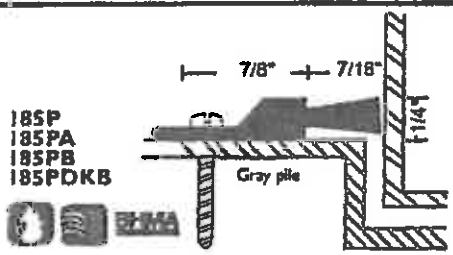
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
 Screw holes slotted for adjustment

All vinyl seals this section

A - clear
 B - gold
 DKB - dark bronze
 no suffix - mill
 Vinyl is gray
 (exception: vinyl is black)



Pile Seals



Vinyl Perimeter Seals

Pile Seals




Saddle Thresholds




MATERIALS & FINISHES

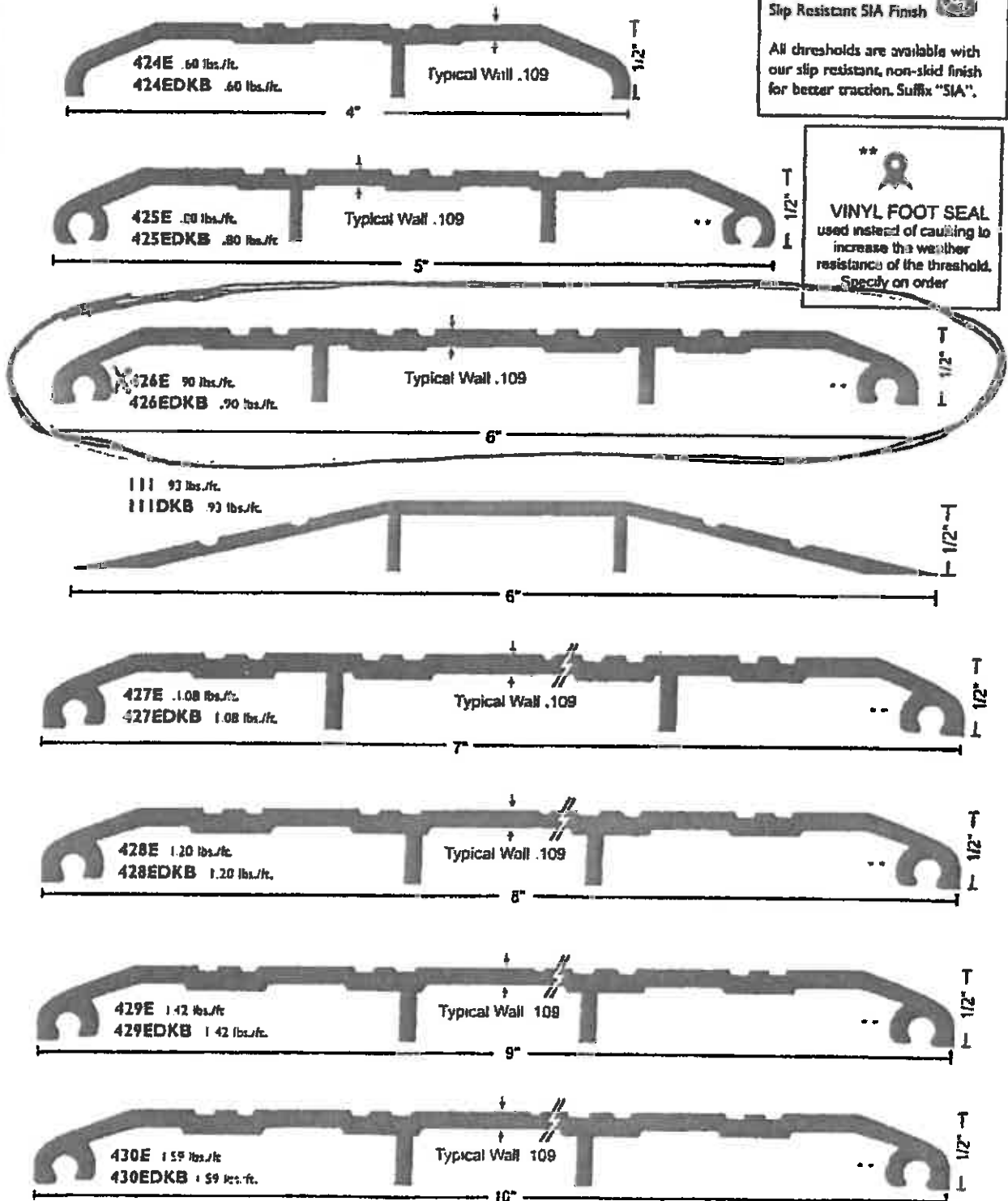
- Aluminum mill finish
- DKB - Aluminum dark bronze finish

Sip Resistant SIA Finish 

All thresholds are available with our slip resistant, non-skid finish for better traction. Suffix "SIA".

** 

VINYL FOOT SEAL
used instead of caulking to increase the weather resistance of the threshold.
Specify on order.



Specifications

Handing:

All D-Series lever locksets are non-handed.

Door Thickness:

1½" to 2¼" (41mm-54mm) standard including Vandgard® functions.

See accessories (Page 12) for spacers required for 1½" doors.

Backsets:

2¼" (70mm) standard, 2¾", 3¾" and 5" (60mm, 95mm, 127mm) optional.

Faceplate:

Brass, bronze or stainless steel. 1½" x 2¼" (29mm x 57mm) square corner, beveled.

Lock Chassis:

Zinc plated for corrosion resistance.

Latch Bolt:

Steel, ½" (12mm) throw, deadlocking on keyed and exterior functions. ¾" (19mm) throw anti-friction latch available for pairs of fire doors.

Exposed Trim:

Levers: Pressure cast zinc, plated to match finish symbols.
Roses: Solid brass.

Strikes:

ANSI curved lip strike 1¼" x 4¾" x 1¾" lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 11.

Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

Keying Options:

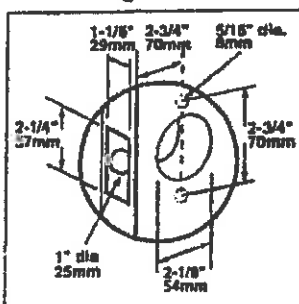
Interchangeable core and Primus® high security cylinders. Master keying, grand master keying and construction keying.

Warranty:

Seven-year limited for all functions including Vandgard®.

Door Preparation

Lever Designs



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

Federal

Meets FF-H-106C Series 161.

California State Reference Code

(Formerly Title 19, California State Fire Marshal Standard)

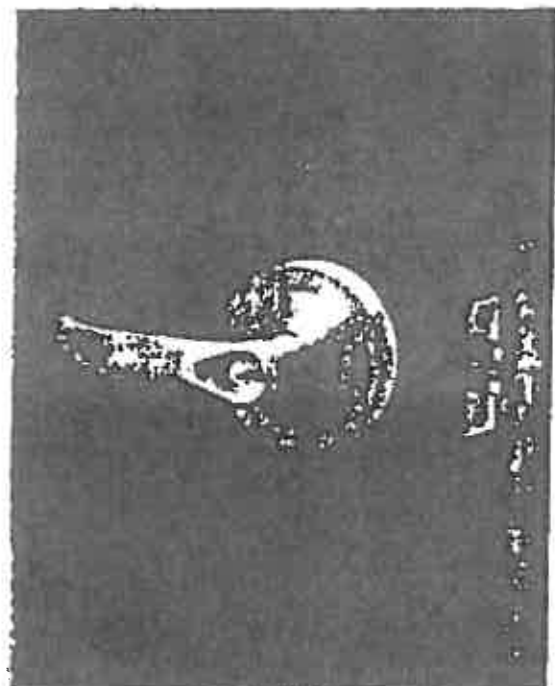
All levers with returns comply; levers return to within ¼" of door face.

UL / cUL:

All locks listed for A label single doors, 4' x 8'.


Letter F and UL symbol on latch front indicate listing. Electrified functions are UL19X Listed for single point locking applications.

UL437 Listed locking cylinder optional; specify Primus 20-500 Series cylinder.

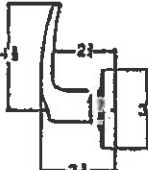



D SERIES LEVERS

Lever Designs & Finishes




ATHENS
 Symbol: ATH
 Material: Pressure cast zinc lever; wrought brass rose
 Finishes: 605, 606, 612, 613, 619, 625, 626

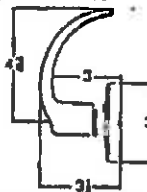



605 


Lever Designs & Finishes




SPARTA
 Symbol: SPA (17)
 Material: Pressure cast zinc lever; wrought brass rose
 Finishes: 605, 606, 612, 613, 619, 625, 626





606 



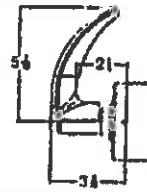
RHODES
 Symbol: RHO (06)
 Material: Pressure cast zinc lever; wrought brass rose
 Finishes: 605, 606, 612, 613, 619, 625, 626




612 



OMEGA
 Symbol: OME
 Material: Pressure cast zinc lever; wrought brass rose
 Finishes: 605, 606, 612, 613, 619, 625, 626



619 



605
Bright Brass



606
Satin Brass



612
Satin Bronze



613
Oil Rubbed Bronze



619
Satin Nickel

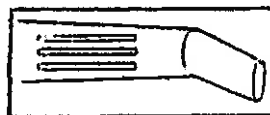


625
Bright Chromium Plated



626
Satin Chromium Plated

 Keyed functions available with interchangeable core options. Levers are available for full size and small format interchangeable cores.



TACTILE WARNING (KNURLING)

Change symbol designation as follows:

- 8AT for Athens
- 8RO for Rhodes
- 8SP for Sparta

Only outside lever is knurled unless otherwise specified.

Not available with Omega trim

Finishes

- 605 Bright Brass
- 606 Satin Brass
- 612 Satin Bronze
- 613 Oil Rubbed Bronze
- 619 Satin Nickel
- 625 Bright Chromium Plated
- 626 Satin Chromium Plated

D SERIES LEVERS

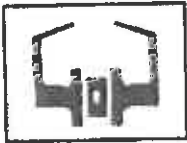
Functions

Non-Keyed Locks

SCHLAGE ANSI

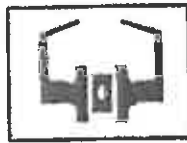
ND10S F75

Passage Latch
Both levers always unlocked.



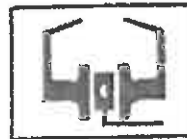
ND12D F89

Exit Lock
Outside lever always fixed. Inside lever always unlocked.



ND12DEL

Electrically Locked (Fail Safe)
Outside lever continuously locked electrically. Unlocked by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.



ND12DEU

Electrically Unlocked (Fail Secure)
Outside lever continuously locked until unlocked by electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.



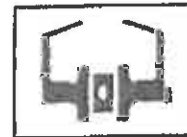
ND25D

Exit Lock
Blank plate outside. Inside lever always unlocked.



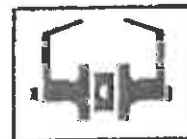
ND40S F78

Bath/Bedroom Privacy Lock
Push-button locking. Can be opened from outside with small screwdriver. Turning inside lever or closing door releases button.



ND41S

Hospital Privacy Lock
Push-button locking. Unlocked from outside by turning emergency turn-button. Turning inside lever or closing door releases button.



ND170

Single Dummy Trim
Dummy trim for one side of door. Used for door pull or as matching inactive trim.

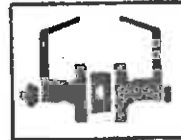


Keyed Locks

SCHLAGE ANSI

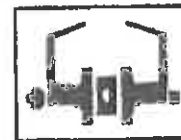
ND50PD F82

Entrance/Office Lock*
Push-button locking. Push-button locks outside lever until unlocked with key or by turning inside lever.



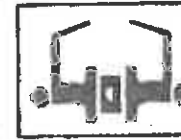
ND53PD F109

Entrance Lock*
Turn/push-button locking; pushing and turning button locks outside lever, requiring use of key until button is manually unlocked. Push-button locking; pushing button locks outside lever until unlocked by key or by turning inside lever.



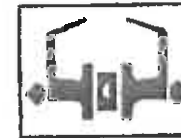
ND60PD F88

Vestibule/Classroom Security Lock*
Latch retracted by key from outside when outside lever is locked by key in inside lever. Inside lever is always unlocked.



ND66PD F91

Store Lock*†
Key in either lever locks or unlocks both levers.



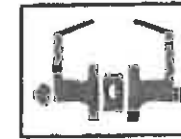
ND70PD F84

Classroom Lock*
Outside lever locked and unlocked by key. Inside lever always unlocked.



ND73PD F90

Corridor Lock*
Outside lever locked by key outside or push-button inside. Push-button released by rotating inside lever or closing door. When outside lever is locked by key, key must be used to unlock it. Inside lever is always unlocked.



OCT 24 2008

* Available functions for small format interchangeable core.

† Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Specifications

Handing:

Keyed functions are reversible. Non-keyed functions are not handed.

Door Thickness:

1 3/8" to 1 3/4" (35 mm to 48 mm) standard.
2" (51 mm) to 2 1/2" (64 mm) optional extended inside.

Backsets:

2 3/4" (60 mm) standard, 2 3/4" (70 mm), 3 3/4" (95 mm) and 5" (127 mm) optional.

Front:

Steel. 1 1/8" x 2 1/4" square corner, beveled, for 2 3/4" backset standard. Optional 1" square corner, 1" radius corner, and non-UL drive-in / round face. For availability with specific backsets, see page 6.

Lock Chassis:

Steel, zinc dichromate plated for corrosion resistance.

Latch Bolt:

Brass, chrome plated, 1/2" throw, deadlocking on keyed and exterior functions.

Exposed Trim:

Wrought brass, bronze or stainless steel. Levers are pressure cast zinc, plated to match finish symbols.

Strikes:

T-strike 1 1/8" x 2 3/4" (29 mm x 70 mm) x 1 1/8" (29 mm) lip to center with box standard. Optional strikes, lip lengths and ANSI strike box available. See page 7.

Cylinder & Keys:

Commercial: 6-pin patented Everest C123 keyway standard with two nickel silver keys per lock.

Residential: 6-pin C keyway, keyed 5-pin.

Keying Options:

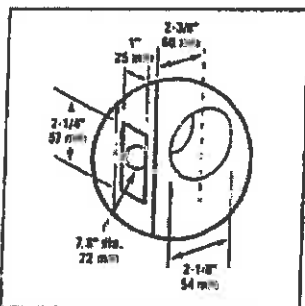
Interchangeable core and Primus® high security cylinders. Master keying, grand master keying, and construction keying.

Warranty:

Commercial: three-year limited.

Residential: Full mechanical lifetime.

Door Preparation



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 2 strength and operational requirements.

Federal

Meets FF-H-106C.

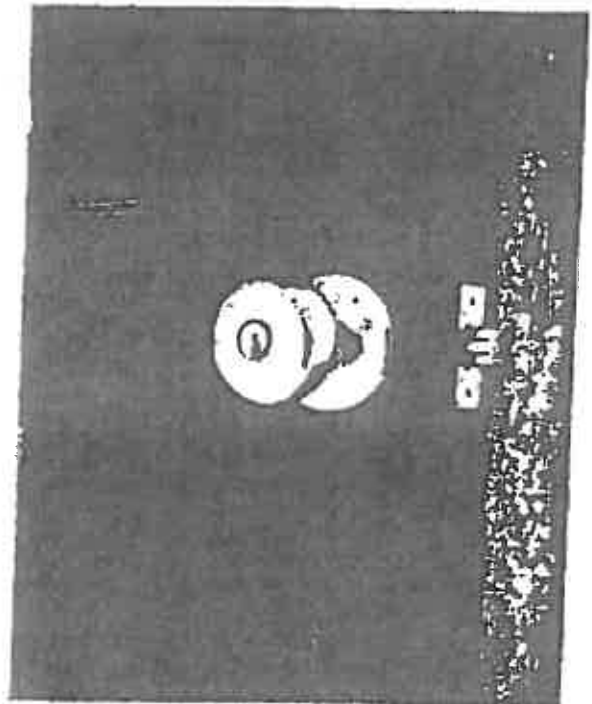
California State Reference Code

(Formerly Title 19, California State Fire Marshal Standard)

All levers with returns comply: levers return to within 1/2" of door face.

UL / ULC:

All locks listed for A label single doors, 4' x 8'. Letter F and UL symbol on latch front indicate listing. UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



A SERIES

Designs & Finishes



609

GEORGIAN

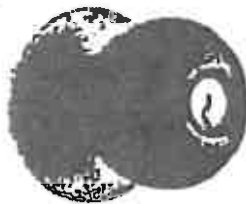
Symbol: GEO
Material: Wrought brass
Finishes: 605, 606,
609, 610,
625, 626



605

LEVON

Symbol: LEV
Material: Pressure cast
zinc lever; wrought brass
or bronze rose
Finishes: 605, 612,
613, 626



613

ORBIT

Symbol: ORB
Material: Wrought brass
or bronze
Finishes: 605, 606, 609,
610, 611, 612, 613,
616, 625, 626



Note: Levon available as inside trim only on deadlatch functions. Specify complete trim application and door handing when ordering with deadlatch functions.

Finishes

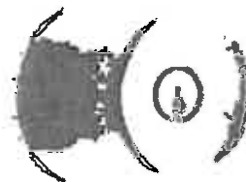
- 605 Bright Brass
- 606 Satin Brass
- 609 Antique Brass
- 610 Bright Brass, Blackened
- 611 Bright Bronze
- 612 Satin Bronze
- 613 Oil Rubbed Bronze
- 616 Antique Bronze
- 625 Bright Chromium Plated
- 626 Satin Chromium Plated
- 629 Bright Stainless Steel
- 630 Satin Stainless Steel



605

PLYMOUTH

Symbol: PLY
Material: Wrought brass,
bronze, or stainless steel
Finishes: 605, 606, 609, 610,
611, 612, 613, 616, 625,
626, 629, 630



626

TULIP

Symbol: TUL
Material: Wrought brass
Finishes: 605, 606,
609, 610,
625, 626



Keyed functions available with full size interchangeable core option for Orbit design.

Functions

ANSI A156.2 Series 4000 Grade 2

Non-Keyed Functions

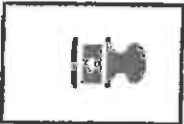
SCHLAGE ANSI
A10S F75

Passage Latch
Both knobs always unlocked.



A25D

Exit Lock
Blank plate outside. Inside knob always unlocked. Specify door thickness, 1 3/8" or 1 3/4".



A30D F77

Patio Lock
Push-button locking. Turning inside knob or closing door releases button, preventing lock-out.



A40S F76

Bath/Bedroom Privacy Lock
Push-button locking. Can be opened from outside with small screwdriver. Turning inside knob or closing door releases button.



A43D F79

Communicating Lock
Turn-button in outer knob locks and unlocks knob and inside thumbturn.



A170

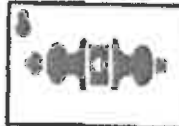
Single Dummy Trim
Dummy trim for one side of door. Used for door pull or as matching inactive trim.



Keyed Functions

SCHLAGE ANSI
A53PD F109

Entrance Lock
Turn/push-button locking: pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Push-button locking: pushing button locks outside knob until unlocked by key or by turning inside knob.



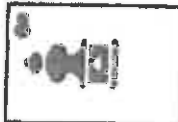
A70PD F84

Classrooms Lock
Outside knob locked and unlocked by key. Inside knob always unlocked.



A79PD

Communicating Lock
Locked or unlocked by key from outside. Blank plate inside.



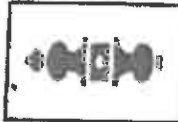
A80PD F96

Storeroom Lock
Outside knob fixed. Entrance by key only. Inside knob always unlocked.



A85PD F93

Hotel/Motel Lock
Outside knob fixed. Entrance by key only. Push-button in inside knob activates visual occupancy indicator, allowing only emergency masterkey to operate. Rotation of inside spanner-button provides lock-out feature by keeping indicator thrown.



Keyed functions available with full size interchangeable core option for Orbit design.

SECTION 07920 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. **Submittals: Product Data.**
- B. **Warranty: Warranty materials and workmanship of sealing against leaks, adhesion, and cohesive failure for a period of two years from the date of substantial completion.**
- C. **References:**
 - 1. **American Society for Testing and Materials**
 - a) **ASTM C790 – Recommended practices for use of latex sealing compounds.**
 - b) **ASTM C920 – Elastomer Joint Sealants.**
 - 2. **Federal Specifications**
 - a) **FS TT-S-00230C (2), Sealing Compound, Elastomeric Type, Single Component (for caulking, sealing and glazing in buildings and other structures).**
 - b) **FS TT-S-00227E (3), Sealing Compound, Elastomeric Type, Multi-component (for caulking, sealing and glazing in buildings and other structures).**

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. **Compatibility: Provide joint sealants, joint fillers, and other related materials that have been tested and found compatible with one another and with joint substrates under service and application conditions.**
- B. **Interior Sealant: Provide ASTM C 834. If no color is specified, use Gray. Location(s) of sealant for the following:**
 - 1. **Small voids between walls or partitions and adjacent door frames, and similar items.**
 - 2. **Perimeter of frames at doors, windows, and access panels which adjoin exposed interior concrete and masonry surfaces.**
- C. **Exterior Sealant: Provide ASTM C 920, polyurethane or polysulfide, Type M, Grade NS, Class 25, Shore A hardness of 20-40. If no color is specified, use Gray. Location(s) of sealant for the following:**
 - 1. **Joints and recesses formed where frames and vents adjoin masonry, concrete, or metal frames. Use sealant at both exterior and interior surfaces of exterior wall penetrations. Color to match adjacent surface.**

2.2 ACCESSORIES

- A. **Primers: Provide a nonstaining, quick-drying type and consistency recommended by the sealant manufacturer for the particular application.**
- B. **Bond Breakers: Provide the type and consistency recommended by the sealant manufacturer to prevent adhesion of the sealant to backing or to bottom of the joint.**
- C. **Cleaning Solvents: Provide type(s) recommended by the sealant manufacturer, except for aluminum and bronze surfaces that will be in contact with sealant.**

PART 3 - EXECUTION

3.1 PREPARATION

- A. **Clean surfaces from dirt, frost, moisture, grease, oil, wax, lacquer, paint, or other foreign matter that would tend to destroy or impair adhesion. Remove oil and grease with solvent. Surfaces must be wiped dry with clean cloths. When resealing an existing joint, remove existing caulk or sealant prior to applying new sealant. For surface types not listed below, contact sealant manufacturer for specific recommendations.**
 - 1. **Steel Surfaces: Remove loose mill scale by sandblasting or, if sandblasting is impractical or would damage finish work, scraping and wire brushing. Remove protective coatings by sandblasting or using a residue-free solvent.**
 - 2. **Aluminum or Bronze Surfaces: Remove temporary protective coatings from surfaces that will be in contact with sealant. When masking tape is used as a protective coating, remove tape and any residual adhesive just prior to sealant application. For removing protective coatings and final cleaning, use nonstaining solvents recommended by the manufacturer of the item(s) containing aluminum or bronze surfaces.**
 - 3. **Concrete and Masonry Surfaces: Where surfaces have been treated with curing compounds, oil, or other such materials, remove materials by sandblasting or wire brushing. Laitance, remove efflorescence and loose mortar from the joint cavity.**

- 4. Wood Surfaces: Keep wood surfaces to be in contact with sealants free of splinters and sawdust or other loose particles.
- B. Do not add liquids, solvents, or powders to the sealant. Mix multi-component elastomeric sealants in accordance with manufacturer's instructions.

3.2 INSTALLATION

- A. Joint Width-to-Depth Ratios: Install per manufacturer's recommendation or as described below, whichever is more stringent.
 - 1. Acceptable Ratios:

	Minimum	Maximum
a) For metal, glass, or other nonporous surfaces:		
(1) 1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
(2) Over 1/4 inch (6 mm)	1/2 of width	Equal to width
b) For wood, concrete, masonry, or stone:		
(1) 1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
(2) Over 1/4 inch (6 mm) to 1/2 inch (13 mm)	1/4 inch (6 mm)	Equal to width
(3) Over 1/2 inch (13 mm) to 2 inch (50 mm)	1/2 inch (50 mm)	5/8 inch (16 mm)
(4) Over 2 inch (50 mm)	(As recommended by sealant mfr.)	
 - 2. Unacceptable Ratios: Where joints of acceptable width-to-depth ratios have not been provided, clean out joints to acceptable depths and grind or cut to acceptable widths without damage to the adjoining work. Grinding is not required on metal surfaces.
- B. Masking Tape: Place masking tape on the finish surface on one or both sides of a joint cavity to protect adjacent finish surfaces from primer or sealant smears. Remove masking tape within 10 minutes after joint has been filled and tooled.
- C. Immediately prime prior to application of the sealant, clean out loose particles from joints. Where recommended by sealant manufacturer, apply primer to joints in concrete masonry units, wood, and other porous surfaces in accordance with sealant manufacturer's instructions. Do not apply primer to exposed finish surfaces.
- D. Provide bond breakers to the back or bottom of joint cavities, as recommended by the sealant manufacturer for each type of joint and sealant used, to prevent sealant from adhering to these surfaces. Carefully apply the bond breaker to avoid contamination of adjoining surfaces or breaking bond with surfaces other than those covered by the bond breaker.
- E. Provide a sealant compatible with the material(s) to which it is applied. Do not use a sealant that has exceeded shelf life or has jelled and can not be discharged in a continuous flow from the gun. Apply the sealant in accordance with the manufacturer's printed instructions with a gun having a nozzle that fits the joint width. Force sealant into joints to fill the joints solidly without air pockets. Tool sealant after application to ensure adhesion. Make sealant uniformly smooth and free of wrinkles. Upon completion of sealant application, roughen partially filled or unfilled joints, apply sealant, and tool smooth as specified. Apply sealer over the sealant when and as specified by the sealant manufacturer.
- F. Thresholds: Place double band of sealant under and along all sides of all exterior thresholds.

END OF SECTION 07920

FINAL ABATEMENT REPORTS

Oklahoma Department of Labor

Initial Notification
 Revised Notification



Emergency Notification
 O & M Notification

RECEIVED

NOV 26 2014

LAND PROTECTION DIVISION
 DEPARTMENT OF ENVIRONMENTAL QUALITY

MARK COSTELLO
 COMMISSIONER

ASBESTOS	PROJECT	CHECKLIST
NAME	ADDRESS	CITY PHONE
Job Site: McALESTER ARMORY	319 E POLK AVE	McALESTER OK 405-522-0050
Contractor: ENVIRONMENTAL ACTION	PO BOX 1029	JENKS OK 918-298-4080
Site Owner: STATE OF OKLAHOMA	2401 N LINCOLN STE 106	OKC OK 405-522-0050
Gen. Contractor N/A		
Project Designer: MARSHALL ENVIRONMENTAL	1601 SW 89 TH	OKC, OK 405-616-0401
Air Monitoring Firm: EARTH TECH	3336 E 32 ND ST	TULSA OK 918-712-9163
Air Monitoring Firm: N/A		
Landfill: WASTE CONNECTIONS	7600 SW 15 TH	OKC OK 405-745-3002
Hauler: LOWDER TRANS.	PO BOX 307	SHAWNEE OK 405-275-8538
MOBILIZATION DATE: <u>05/13/2013</u> SCHEDULED DATE OF ASBESTOS REMOVAL: <u>05/20/2013</u> PROJECT COMPLETION DATE: <u>06/20/2013</u> RENOVATION: <u> X </u> DEMOLITION: <u> </u> EMER: <u> </u>		
Type and percentage asbestos (attach lab reports): PER PROJECT DESIGN		
AMOUNT OF ASBESTOS TO BE ABATED: 2,000 SF POPCORN TEXTURE		
ABATEMENT TECHNIQUES: GROSS REMOVAL		
SUBMITTALS NECESSARY BEFORE ABATEMENT MAY BEGIN. CHECK OF ONLY THOSE ATTACHED TO THIS CHECKLIST OR WHICH ARE ON FILE AT THE OKLAHOMA STATE DEPARTMENT OF LABOR.		
<input checked="" type="checkbox"/> NESHAPS Notification (Copy) <input type="checkbox"/> Project specifications <input type="checkbox"/> Bonds and/or Insurance Certificates <input type="checkbox"/> Plans for Decontamination Facilities <input type="checkbox"/> Respirator Program <input type="checkbox"/> Employee Physicals <input type="checkbox"/> Permission from owner for all rented vehicles/trailers used to haul asbestos-containing material.	_____ Variances _____ _____ _____ _____	
<input type="checkbox"/> # of Mini-containments <input type="checkbox"/> # of Glovebags <input checked="" type="checkbox"/> # of Containments <input checked="" type="checkbox"/> # of Phases	FEES * \$ 600.00 per containment * \$ 200.00 per project not part of a definite containment. * \$ 200.00 per project with multiple glovebags or mini-containment, plus \$ 5.00 per such glovebag or mini-containment	
Comments: PROJECT DESIGN ON FILE		

James Lankford 05/02/2013
 Contractor/Responsible Party Signature Date

EPA NOTIFICATION OF DEMOLITION OR RENOVATION

OFFICE USE ONLY: DATE RECEIVED: _____ JOB / PERMIT / ID NUMBER _____

I. FACILITY INFORMATION:

OWNER: Stata of Oklahoma PHONE: 405-522-0050

STREET ADDRESS: 2401 N Lincoln CITY: Oklahoma City STATE: OK ZIP: 73105

FACILITY REPRESENTATIVE: Rebekah Richardson PHONE: 405-522-0050

ASBESTOS ABATEMENT CONTRACTOR: Environmental Action, Inc.

STREET ADDRESS: 8526 South Peoria Ave. CITY: Tulsa STATE: OK ZIP: 74132

REPRESENTATIVE: Don Jolley PHONE: (918) 298-4080

PAGER: None CELL PHONE: (918) 645-8157

AIR MONITORING FIRM OR OTHER OPERATOR: Earth Tech

STREET ADDRESS: 3336 East 32nd, Suite 234 CITY: Tulsa STATE: OK ZIP: 74135

REPRESENTATIVE: Daryl Lessin PHONE: (918) 712-9163

II. TYPE OF NOTIFICATION: (O=ORIGINAL) OR (R=REVISED) O

III. TYPE OF OPERATION: (D=DEMOLITION) (R=RENOVATION) (ER=EMERGENCY RENOVATION) R

IV. IS ASBESTOS CONTAINING MATERIAL (ACM) PRESENT? YES XXXXX NO _____

V. FACILITY / BUILDING DESCRIPTION (BE SPECIFIC AND DETAILED AS TO NAME, # FLOORS, EXACT ACM LOCATION, ROOM NUMBERS, ETC.)

FACILITY: McAlester Armory ADDRESS: 319 E Polk Ave

CITY: McAlester STATE: OK ZIP CODE: 74350 COUNTY: Pittsburg

WHERE IS ACM LOCATED? 2000 sf wall/ceiling material

BUILDING SIZE: SQ. FEET: 25,000 AGE: 45 YEARS # OF FLOORS: 1

PRESENT USE: vacant PREVIOUS USE: armory

VI. PROCEDURES USED TO DETERMINE PRESENCE OF ACM INCLUDING ANALYTICAL METHODS:

Visual inspection of the building -- suspect materials were collected -- analysis by polarized light microscopy

NAME OF EPA ACCREDITED INSPECTOR WHO PERFORMED INSPECTION AND SAMPLING INCLUDING AFFILIATION AND OKLAHOMA DOL LICENSE NUMBER:

Jamis Marshall
#133585

EPA NOTIFICATION OF DEMOLITION OR RENOVATION CONTINUED

VII. AMOUNTS OF REGULATED ASBESTOS CONTAINING MATERIAL (RACM) TO BE REMOVED; ALSO AMOUNTS OF CATEGORY I OR II MATERIALS WHICH WILL / WILL NOT BE REMOVED (circle one)

(may be removed - this notification is for O & M)

PIPES -LINEAR FT: 0 SURFACING AREA - SQUARE FEET: 2000 OFF FACILITY COMPONENT:

CUBIC FEET: 0 CATEGORY I - SQ FT: 5000 CATEGORY II - SQ. / LN. FT. 400

VIII. SCHEDULED DATES OF ASBESTOS REMOVAL: START: 5/20/2013 FINISH: 6/30/2013

IX. SCHEDULED DATES OF DEMO / RENO: START: N/A FINISH: N/A

X. DESCRIPTION OF THE PLANNED ASBESTOS REMOVAL TECHNIQUES TO BE EMPLOYED:

(e.g. gross removal, glove bagging, manual scrape, etc.)
gross removal

XI. DESCRIPTION OF THE CONTROLS AND WORK PRACTICES TO BE USED TO PREVENT ASBESTOS FIBER EMISSIONS (e.g. full containment with negative pressure, adequate wetting):

containment w/amended water, AFD in use, double bagging of waste, lined trailers, & decon unit

XII. LICENSED ASBESTOS WASTE TRANSPORTER: Lowder Transportation

ADDRESS: PO Box 307 CITY: Shawnee STATE: OK ZIP: 73802

REPRESENTATIVE: Tom Lowder PHONE: 405/275-8538

XIII. STATE PERMITTED ASBESTOS WASTE DISPOSAL SITE: Waste Connections

ADDRESS: 7600 SW 15th CITY: Oklahoma City STATE: OK ZIP: 73090

REPRESENTATIVE: Brian Barney PHONE: 405-745-3002

XIV. IS DEMOLITION ORDERED BY A GOVERNMENT AGENCY? YES: _____ NO: XXXX

NAME OF AGENCY: N/A REPRESENTATIVE: N/A

DATE OF ORDER: n/a DATE DEMOLITION IS TO START: N/A

XV. IS THIS RENOVATION REQUIRED DUE TO AN EMERGENCY? YES: _____ NO: XXXX

DATE OF EMERGENCY: n/a HOUR OF DAY EMERGENCY OCCURRED: n/a

DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT CAUSING THE EMERGENCY: _____

N/A

EXPLANATION OF HOW THIS CAUSED 1) UNSAFE CONDITIONS; 2) SERIOUS DISRUPTION OF NORMAL BUILDING OPERATIONS; AND/OR 3) IMPOSES AN UNREASONABLE FINANCIAL BURDEN? (be specific & detailed)

N/A

EPA NOTIFICATION OF DEMOLITION OR RENOVATION CONTINUED

XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NON-FRIABLE ASBESTOS BECOMES FRIABLE (crumbled, pulverized, abraded, or reduced to powder, etc.):

Stop work, wet the materials, collect and bag loose materials, notify DEQ

XVII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR, PART 61, SUBPART M - NESHAP) WILL BE ON SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE OF HIS/HER TRAINING AND CERTIFICATION / LICENSING WILL BE AVAILABLE (OR BE POSTED) FOR INSPECTION DURING BUSINESS HOURS:

SIGNATURE OF OWNER / OPERATOR : James Lambert DATE: 05/02/2013
PRINTED NAME: James Lambert

XVIII. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT TO THE BEST OF MY KNOWLEDGE:

SIGNATURE OF OWNER / OPERATOR : James Lambert DATE: 05/02/2013
PRINTED NAME: James Lambert

DEFINITION: OWNER OR OPERATOR Any person who owns, leases, operates, controls or supervises the facility being demolished or renovated or any person who owns, leases, operates, controls or supervises the demolition or renovation, or both.

ADDITIONAL COMMENTS: N/A

EPA NESHAP AUTHORITY: OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
Air Quality Division, 707 N. Robinson, P.O. Box 1677
OKC, OK 73101-1677 or
Tulsa Regional Office, 3105 East Skelly Drive, Suite 200
Tulsa, OK 74105

NOTE: Please submit your Notification to the DEQ office closer to your job site.

STATE OF OKLAHOMA

DEPARTMENT OF ENVIRONMENTAL QUALITY - TULSA OFFICE
3105 E. Skelly Dr., Tulsa, Ok. 74105 - (918) 293-1614 (918) 293-1631 (fax)

EPA / ODEQ - NESHAP ASBESTOS PROGRAM
FIELD / ABATEMENT SITE / INCIDENT / COMPLAINT - REPORT
*** ACTION REQUESTED / FINDINGS / DETERMINATION / ORDERS ***

DATE: 5-23-13 DEQ FILE #: 1324 INSPECTOR: R. Koester

FACILITY / EPA SOURCE & POINT #: 121-B30001-001 THD PERMIT #: NA

COMPANY / CONTRACTOR / FIELD REPRESENTATIVE: Jack Honn

COMPANY / CONTRACTOR REPRESENTED / ADDRESS: EAI, 8526 S. Peoria Ave., Tulsa, Ok. 74132 % James Lambert @ 918-298-4080

LOCATION / SITE OF ACTION / INCIDENT / REQUEST: McAlister Armory, 319 E Polk, McAlister, OK. 74350; Bldg. # 7 and # 1;

ACTION REQUESTED / INCIDENT / PROPOSAL: Pre-abatement / prep. inspection (gross removal of joint compound, VAT, and Cat. II (see Project Design for details));

DECISION RENDERED / ORDER GIVEN: Prep. ok. proceed as planned (Note: VAT and Cat. II already removed as NRACM); (Note: joint compound / wall system not regulated ACM); removals done per DOL rules;

COMMENTS: DOL on site (J.W.); 5 on site;

SIGNATURES: Rene J. Koester
EPA / ODEQ / NESHAP INSPECTOR

Jack Honn
COMPANY REPRESENTATIVE



Abatement Preparation Inspection Form

Abatement Project: McALESTER Armory Date: 5-23-13 Time: 11:30
 Project No: 12-7306 Phase: _____
 Project Address/Location: 319 E. POLK McALESTER City: _____ Zip: _____
 Contractor: ENVIRONMENTAL ACTION Contact Person: JACK HONN
 Project Phone No: 405 522 0050 Contractor's Home/Office Phone No: 918 298 4080
 Project Owner: STATE OF OKLAHOMA Owner's Rep: REBEKAH RICHARDSON

A - Acceptable
 B - Denied, must be corrected or re-inspected before asbestos removal is begun
 N/A - Not applicable to the project
 XI - Denial or withdrawal can only be requested before the abatement system is installed. If already denials are entered, the OSHA type after the correction is desired is acceptable. If a denial is entered, the contractor must begin the asbestos removal before the denial is corrected. If a denial is entered, a Serious Violation.

	A	B	N/A	X		A	B	N/A	X		A	B	N/A	X
(1) Work site barriers and warning signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(21) Extension cords in acceptable condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(39) Make main sources provide adequate circulation and air cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) Toilet facilities provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(22) Equipment properly grounded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(40) Access controlled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) Worker licenses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(23) Tension relief on electric cords	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(41) Scaffolding over 10' high has 42" siderails and 4" toeboards	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4) Emergency telephone #'s	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(24) De-con firmly constructed, opaque with triple flaps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(42) Scaffolding from 4' to 10' high, but less than 42" wide, has side rails	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5) OSHA form 306 (min wage, workers comp, equal opportunity)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(25) De-con trailers properly grounded	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(43) Scaffolding with people working under has mesh or solid barrier on platform	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6) Air mon. results from prior phases, if applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(26) Storage lockers for workers and ODO/inspectors, street clothes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(44) Scaffolding toeboards in good condition and secured	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(7) Respirator program and protection on site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(27) Shower with hot water supply, stable nonskid surface, lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(45) Aerial lifts have full body harness with hook at yards	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(8) Respirator air system and equipment manuals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(28) Shower drains, filter, proper water disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(46) Ladders are non-conducting and stable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(9) Compressor does not discharge oil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(29) Soap from dispenser, and towels provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(47) Heat stress monitors in place	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(10) CO monitor, high temp and low pressure alarm tested on site	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(30) Hearing protection provided if required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(48) HEPA vacuum is clean with filters properly installed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(11) Cascade system secure and certificate of air quality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(31) Hard hats provided, if required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(49) Temporary lighting is adequate and properly wired and grounded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(12) Automatic back-up air of proper quantity in full containers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(32) Appropriate footwear/safety shoes provided, if required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(50) 10 # ABC fire extinguishers inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(13) Bulk hoses and respirators free of residue	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(33) Electrical system in abatement area locked out, tagged out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(51) Adequate escape routes are properly marked and illuminated with emergency lighting and battery back-up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(14) In-line pressure gauge at manifold	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(34) Ventilation serving or passing through the abatement area deactivated	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(52) Acceptable amended water sprayers and chemicals provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(15) NIOSH approved respirators clean, parts in working order	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(35) Critical barriers in place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(53) Lead-out sealed unless needed for make-up air	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(16) Electrical panel outside work area	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(36) Neg. air quantity and pressure drop confirmed on site with recording manometer	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(54) Disposal bags and/or barrels provided and properly labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(17) Temporary wing installed by licensed electrician, LIC # <u>JAMES LAMBERT</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(37) Neg. air machine(s) have properly installed filters, clean pre-filters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(55) Disposal vehicle properly lined	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(18) Temporary panel boards properly grounded	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(38) Prep work secure with negative air on	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(56) Disposal vehicle properly tagged and marked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(19) Ground fault interruption provided from outside work area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						(57) Area monitoring, catalogs identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(20) Live electrical equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

OF GLOVE BAGS # OF FULL CONTAINMENTS # OF MINI CONTAINMENTS

Recommendation & Remarks: Prep Accepted AT Time of inspection

Orders: Jeff Inspector's Signature Jack Honn Contractor's or Representative's Signature

Oklahoma Department of Labor

Mark Costello, Commissioner

Asbestos Division

3017 North Stiles, Suite 100
Oklahoma City, OK 73105
(405-521-6464) FAX (405-521-6025)

440 South Houston, Suite 300
Tulsa, OK 74127
(918-581-2400) FAX (918-581-2431)



Visual/Final Inspection Form

DOL Project # _____
Facility: McAfee Armory Month: 5 Day: 30 Year: 13 Time: 1030
Contractor # _____ County # _____ FY # 2013
Address/Location: 319 E Park Ave Address City: McAfee
Owner/Occupant: City of McAfee Contractor: _____
Contact Name: _____ Contractor's Rep: _____
Facility Phone #: _____ Contractor's Phone: 405-221-1662

1. Description of Area: Asbestos abatement work on roof of McAfee Armory building and sub-basement in McAfee, Oklahoma.

2. Areas requiring further cleaning: None

3. Air Counts (PCM/TEM) On-Site? Yes - All counts acceptable.

4. DOL Recommendations: Remove all debris and reinspect at 10 AM.

5. Will a FINAL inspection be required? Yes - This is the final for this abatement.

6. Notes: Visual and Final accepted. Building #17.

7. Note any violations cited: 380-50

8. Contractor's Comments: _____

[Handwritten Signature]

Inspector's Signature

[Handwritten Signature]

Contractor's Signature



Abatement Preparation Inspection Form

Abatement Project: Magnum Annex
Project No: _____
Project Address/Location: 517 E Park Ave
Contractor: Env Action
Project Phone No: _____
Project Owner: City of Oklahoma

Date: 5-30-13 Time: 13:40
Phase: Main building
City: Mo-Hotel Zip: _____
Contact Person: Jack Houn
Contractor's Home/Office Phone No: 405-641-1635
Owner's Rep: _____

A = Acceptable
D = Denied, must be corrected and re-inspected before asbestos removal is begun
N/A = Not applicable to this project
X = Deficiencies which must be corrected before asbestos removal begins. If the only deficiencies are the "X" type, after correction, asbestos abatement may begin.
Beginning asbestos removal before the deficiencies are corrected shall constitute a Serious Violation.

	A	D	N/A	X		A	D	N/A	X		A	D	N/A	X
(1) Worksite barriers and warning signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(21) Extension cords in acceptable condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(39) Make-up air sources provide adequate circulation and air cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) Toilet facilities provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(22) Equipment properly grounded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(40) Access controlled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) Worker licenses	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(23) Tension relief on electric cords	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(41) Scaffolding over 10' high has 42" side rails and 1' toeboards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) Emergency telephone #s	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(24) De-con firmly constructed, opaque, with triple flaps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(42) Scaffolding from 4' to 10' high, but less than 42" wide has side rails	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5) OSHA forms, poster, min wage, workers comp, equal opportunity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(25) De-con trailers properly grounded	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(43) Scaffolding with people working under has mean or solid barrier on platform	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6) Air mon. results from prior phases, if applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(26) Storage lockers for workers and ODOJ inspectors, street clothes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(44) Scaffolding floorboards in good condition and secured	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(7) Respirator program and project design on-site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(27) Shower with hot water supply, stable nonskid surface, lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(45) Small lifts have full-body harness with shock absorbers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(8) Respirator manuals and equipment manuals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(28) Shower drains, filter, proper water disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(46) Ladders are non-conducting and stable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(9) Compressor does not discharge oil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(29) Soap from dispenser, and towels provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(47) Heat stress monitors in place	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(10) CO monitor, high temp and low pressure alarm tested on-site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(30) Hearing protection provided if required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(48) HEPA vacuum is clean with filters properly installed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(11) Cascade system secure and certificate of air quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(31) Hard hats provided, if required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(49) Temporary lighting is adequate and properly wired and grounded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(12) Automatic back-up air of proper quantity in full containers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(32) Appropriate footwear safety shoes provided, if required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(50) 10 # ABC fire extinguishers inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(13) Bulk hoses and respirators free of oil residue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(33) Electrical system in abatement area locked out, tagged out	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(51) Adequate escape routes are properly marked and illuminated with emergency lighting and battery back-up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(14) In-line pressure gauge at manifold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(34) Ventilation serving or passing through the abatement area deactivated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(52) Acceptable amended water sprayers and chemicals provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(15) NIOSH approved respirators clean, parts in working order	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(35) Critical barriers in place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(53) Load-off sealed unless needed for make-up air	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(16) Electrical panel outside work area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(36) Neg. air quantity and pressure drop, confirmed on-site with recording manometer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(54) Disposal bags and/or barrels provided and properly labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(17) Temporary wiring installed by licensed electrician	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(37) Neg. air machine(s) have properly installed filters, clean pre-filters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(55) Disposal vehicle properly lined	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(18) Temporary panel boards properly grounded	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(38) Prep work secure with negative air on	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(56) Disposal vehicle properly tagged and marked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(19) Ground fault interruption provided from outside work area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						(57) Area monitoring locations identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(20) Live electrical requirement met	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

OF GLOVE BAGS # OF FULL CONTAINMENTS # OF MINI CONTAINMENTS

Recommendation & Remarks: Prep Accepted for ceiling removal of drywall with asbestos tape & bed mat.

Inspector's Signature: [Signature] Contractor's or Representative's Signature: [Signature]

Oklahoma Department of Labor

Mark Costello, Commissioner

Asbestos Division

3017 North Stiles, Suite 100
Oklahoma City, OK 73105
(405-521-6464) FAX (405-521-6025)

440 South Houston, Suite 300
Tulsa, OK 74127
(918-581-2400) FAX (918-581-2431)



Visual/Final Inspection Form

DOL Project #: 63131200
Facility: Meridian Avenue Month: 6 Day: 3 Year: 13 Time: 12:00
Contractor #: _____ County #: _____ FY #: 13
Address/Location: 30 E Park Address City: Meridian
Owner/Occupant: State of OK Contractor: _____
Contact Name: Janice Contractor's Rep: Jack
Facility Phone #: 601-4685 Contractor's Phone #: 918-2820

1. Description of Area: Driveway Area

2. Areas requiring further cleaning: Asbestos

3. Air Counts (PCM/TEM) On-Site? Asbestos

4. DOL Recommendations: Remove All Asbestos from Driveway

5. Will a FINAL inspection be required? Yes

6. Notes: Asbestos

7. Note any violations cited: 380-50

8. Contractor's Comments:

[Signature]
Inspector's Signature

[Signature]
Contractor's Signature

ENVIRONMENTAL ACTION, INC

FIELD ACTIVITY REPORT

McAlester Army

PROJECT NAME: Auxiliary Buildings JOB# 5352

FIELD ACTIVITY SUBJECT: Prep Bldg #7 DATE: 5-20-13 Mon

DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

8:00 a.m. - met crew at okla. city warehouse, & loaded

supplies and left for McAlester okla

10:30 - arrived in McAlester, unloaded supplies & located the

The building #7. Started prep work

11:30 - Took lunch

12:30 - back from lunch, resumed prep work on floor, James

showed up & we went over to locate rooms to be removed

in both buildings #1 & #7

5:30 - started cleaning up work areas & putting trash in dumpster

6:00 - shut down for the day

WORKERS ON SITE: 5 men

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE: Jack Hauer DATE: 5-20-13

ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

McAlester Army

PROJECT NAME: <i>main army Bldg</i>	JOB# <i>5352</i>
FIELD ACTIVITY SUBJECT: <i>floor tile</i>	DATE: <i>5-21-13 Tue</i>

DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

*7:00 a.m. - on Jobsite 5 men - started removing
floor tile in room #27 in main Bldg.*

9:00 - finished ~~room~~ room #27 moved to other 3 rooms

11:30 - Took lunch

12:30 - resumed removing floor tile in other rooms

4:30 - started cleaning up work area & bag up tile

5:00 shut down for the day

WORKERS ON SITE: *5 men*

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE:	DATE:
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ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: McAlester Okla. Armory	JOB# 5357
FIELD ACTIVITY SUBJECT: Remove floor tile	DATE: 5-22-13 Wed

DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

7:00 a.m. - on jobsite 5 men, resumed removing floor tile and started
prep on De-con

11:30 - shut down for lunch

12:30 - back from lunch, back to removing floor tile & prep De-con

3:30 - finished floor tile, loaded all bags in Dumpster.

5:30 - started cleaning up work area

6:00 - shut down for the day.

WORKERS ON SITE: 5 men

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

added 2 more rooms
of floor tile

SIGNATURE: Jack Horn	DATE: 5-22-13
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ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: <i>Mocheater dka. army</i>	JOB# <i>5352</i>
FIELD ACTIVITY SUBJECT: <i>Prep. on Decon</i>	DATE: <i>5-23-13 Thur.</i>

DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

7:00 a.m. - on jobsite - resumed prep on Decon

11:00 - Deck Jeff walker showed up for Prep inspection.

11:30 - passed inspection, went to lunch

12:30 - back from lunch, went in containment and started removal

3:30 - started to shower out, and putting up equipment, taking down hoses & electric cords & locking up

4:00 - Shut down for the day.

WORKERS ON SITE: *5 men* **IMPORTANT PHONE CALLS:**

CHANGES FROM PLANS OR SPECIFICATIONS: *added 2 more rooms of floor tile & mastic*

SIGNATURE: <i>Jack Homer</i>	DATE: <i>5-23-13</i>
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ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: Mealest National Guard Army JOB# 5352
FIELD ACTIVITY SUBJECT: Ceiling ^{floor tile} removal DATE: 5-28-13 Tue
DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

7:00 am - on job site 7 men (Mario Flores no show) Plus 6 men
from Gary Mainard crew, went in containment to finish
removing ceilings & final clean, 5 men to main bldg to start
mastic removal
3:00 - started to bag out & final clean
3:30 - started to lock down ceiling
4:30 - finished lock down, showed out & started putting up equipment
hoses & electric cords & lock up buildings
5:00 shut down for the day.

WORKERS ON SITE: 10 men

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE: Jacks Home DATE: 5-28-13

ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: McAlester Army	JOB# 5352
FIELD ACTIVITY SUBJECT: Final clean & roof T/F	DATE: 5-29-13 Wed
DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:	

7:00 a.m. - on JobSite - 14 men - resumed final clean & start building

De-con in bldg #1

9:00 - finished final clean on bldg #2 started setting up equipment for today

1 - hose - cords etc.

11:30 - shut down for lunch

12:30 - back from lunch resumed setting up containment area, also went back

to removing master. Gary & 2 men left for Tulsa.

4:30 ~ started putting up equipment & cleaning up work area & hauled bags

to dumpster.

5:00 - shut down for the day.

WORKERS ON SITE: 14 men

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE: Jack Hann	DATE: 5-29-13
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ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: Medaester armory JOB# 3352
FIELD ACTIVITY SUBJECT: remove ceiling DATE: 5-30-13 Thurs
DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

2-00 am - on job site 9 men - finish setting up containment in bldg #1
and removing mastic.

10:45 - D. O. he showed up for pre inspection in main bldg.

11:30 - Passed inspection. went to lunch

12:30 - back from lunch, went in and started removing ceiling

3:30 - finished removing ceiling, started final clean

4:15 - started cleaning up work area, & put up electric cords & hoses
bag out into wast trailer

5:00 - shut down for the day

WORKERS ON SITE: 9 men

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE:

Jack Horn

DATE:

5-30-13

ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: <i>Medastal a/m/d/g</i>	JOB# <i>5352</i>
FIELD ACTIVITY SUBJECT: <i>Remove Gerting</i>	DATE: <i>5-31-13</i> <i>FR</i>
DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:	

2:00 am - on jobsite 5 men - resumed final clean

9:00 - finished final clean, went to get airless

9:30 - started to lock down work area.

10:30 - finished lockdown, cleaned up airless and took back

11:30 - started clearance test, went to lunch

*12:30 - back from lunch, started sweeping up all room in main bldg
& pick up tile pieces*

2:30 - stacked all equipment over in bldg #7

3:00 - shut down for the day

WORKERS ON SITE: **IMPORTANT PHONE CALLS:**

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE: <i>Joel Horn</i>	DATE: <i>5-31-13</i>
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ENVIRONMENTAL ACTION, INC
FIELD ACTIVITY REPORT

PROJECT NAME: Wcalesfer Army JOB# 5352
FIELD ACTIVITY SUBJECT: Final Inspection DATE: 6-3-13 MOON
DESCRIPTION OF DAILY ACTIVITIES/EVENTS & CONDITIONS:

7:00 a.m. - on jobsite 2 men went in to tear down shower
rails & hoses, cleaned up floor

11:45 - D.O.W. showed up for final/visual inspection

12:00 - passed inspection, went to lunch.

12:00 - back from lunch, started to tear down de-con

3:00 - finished tear down & load equipment in Juan's
Trailer & my truck and went to Okla. City Warehouse

5:00 - arrived in Okla. City & unloaded truck.

(Job Complete)

WORKERS ON SITE:

IMPORTANT PHONE CALLS:

CHANGES FROM PLANS OR SPECIFICATIONS:

SIGNATURE: Jack Houns DATE: 6-3-13

Jack Hann

Rodney Roland

✓ Tommy Bullock

Samuel Hennesy

✓ Mario Flores m L

Chiveze Dorsta

(5-20-13)
mon

Tue - 5-21-13

Jack Hann

Jay Bullock - Tommy Bullock

Rodney Roland - Rodney Roland

Samuel Hennesy

MARIO FLORES

Chiveze Dorsta Dorsta

wed. - 5-22-13

Jack Hann

Tommy Bullock

Rodney Roland

Samuel Hennesy

MARIO FLORES

~~Chiveze Dorsta~~

Thur - 5-23-13

Jack Hann

Chiveze Dorsta

MARIO FLORES

TOMMY BULLOCK

RODNEY ROLAND

SAMUEL HENNESSY

5-28-13 - Tue

Jack Horn

Rodney Roland

Tommy Bullock

Samuel Hennessey

Chavez ~~Orsola~~

5-28-13 - Tue.

Jose Parra

Fernando Torres

Rene Rodriguez

Erik Parra

Melvin Marin

Miguel Uences

Jesus Lopez

ENVIRONMENTAL ACTION INC

Daily Sign In Sheet

01

LOCATION	DAY	DATE	SHEET#			
McAlester Army	Wed.	5-29-13				
	Name	IN	OUT	IN	OUT	
1	Jack Hann	7:00				
2	Jose Parra	7:00				
3	Fernando Torres					
4	Josus Lorano					
5	Erik Parra					
6	Melvin Maria					
7	Miguel Vences					
8	Robb Rodriguez					
9	Sony Maxwell	7:00				
10	Chineze Lanita	7:00				
11	Sam Hennessy	7:00				
12	Temmy Bullock					
13	Redney Roland					
14	Maria Flores					
15						
16						
17	Hi-way inn & suites					
18	419 S. George High Expy.					
19	42. 69 Bypass					
20	McAlester Okla. 74501					
21	Room #138 Jack Hann					
22	(also send 5 self addressed)					
23	envelopes					
24						
25						
26						
27						
28						
29						
30						

ENVIRONMENTAL ACTION INC

Daily Sign In Sheet

LOCATION	DAY	DATE	SHEET #	
Mealester almay	Fri.	5-31-13		

	Name	IN	OUT	IN	OUT
1	Jayk Hand	7:00			
2	Chinejore Dosta	7:00			
3	SAMUEL HENNESSY				
4	Rodney Roland	7:00			
5	Tommy Bullock	7:00			
6					
7					
8					
9					
10					
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30					

ENVIRONMENTAL ACTION INC

Daily Sign In Sheet

LOCATION	DAY	DATE	SHEET#		
armory meadester	mon	6-3-13			
	Name	IN	OUT	IN	OUT
1	Jack Honn	7:00			
2	Chinyeze Orsla	7:00			
3	MARIO Flores	7:00			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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21					
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24					
25					
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27					
28					
29					
30					

ENVIRONMENTAL ACTION INC.

July 29, 2013

Attn.: B. Hart
Oklahoma Department of Labor
3017 N Stiles
Oklahoma City, OK 73105

RE:

McAlester Armory
ODOL File #13-8306
McAlester, OK

Dear B. Hart:

The following documents are enclosed for your records:

- Air monitoring results
- Waste Manifest

Please call if you need any additional information in order to complete your file.

Sincerely,
ENVIRONMENTAL ACTION, INC



James Lambert
Tulsa Division Remediation Manager

ENCLOSURES

Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

afm 1

Earth Tech Enterprises, Inc.
 3336 E. 32nd, Suite 234
 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
1	P.1 Mario Flores Lic #400421 Full Face	05/23/13	12:58 13:28	30 25mm	2.5	2.5	2.50	0.00785	1 100	75	0.065 BDL	0.065	1.3	0.088 0.043
2	P.2 Chineyeze Dorla Lic #400862 Full Face	05/23/13	12:51 15:01	130 25mm	2.5	2.3	2.40	0.00785	2.5 100	312	0.016 BDL	0.016	3.2	0.021 0.010
3	Inside Work Area with Crew	05/23/13	12:51 15:01	130 25mm	2.5	2.3	2.40	0.00785	4 100	312	0.016 BDL	0.016	5.1	0.021 0.010
4	Outside Work Area Southwest Door	05/23/13	12:59 14:59	120 25mm	2.5	2.5	2.50	0.00785	1 100	300	0.016 BDL	0.016	1.3	0.022 0.011
5	Adjacent to Decon 1st Level	05/23/13	12:50 15:05	135 25mm	2.5	2.4	2.45	0.00785	2 100	330.75	0.015 BDL	0.015	2.5	0.020 0.010
6	Adjacent to Loadout 1st Level	05/23/13	12:50 15:05	135 25mm	2.5	2.3	2.40	0.00785	1 100	324	0.015 BDL	0.015	1.3	0.020 0.010
7	Blank - 1	05/23/13		25mm				0.00785	0 100				0.0	
8	Blank - 2	05/23/13		25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed
 according to NIOSH 7400 protocol

Christopher K. Kiediger

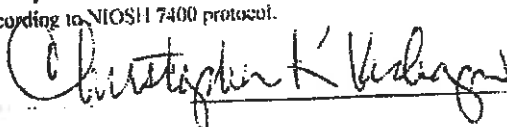
Environmental Action, Inc
PO Box 1029
Jenks, OK 74037

afm 1

Earth Tech Enterprises, Inc.
3336 E. 32nd, Suite 234
Tulsa, OK 74135
918-712-9163

Project McAlester National Guard Armory
McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Time	Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
9	P.I Mario Flores Lic #400421 Full Face	05/23/13	13:28 15:01	93	25mm	2.5	2.4	2.45	0.00785	1 100	227.85	0.022 BDL	0.022	1.3	0.029 0.014

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.


Environmental Action, Inc
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 Jenks, OK 74037

afm 1

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 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
10	P.1 Eric Parra Lic #400642 Full Face Excursion	05/28/13	7:25 7:55	30	25mm	2.5	2.5	2.50	0.00785	1 100	75	0.065 BDL	0.065	1.3 0.088 0.043
11	P.2 Chinyeze Dorsia Lic #400862 Full Face	05/28/13	7:55 15:39	464	25mm	2.5	2	2.25	0.00785	7.5 100	1044	0.005 BDL	0.005	9.6 0.006 0.003
12	P.3 Eric Parra Lic #400642 Full Face	05/28/13	7:25 15:39	494	25mm	2.5	2.3	2.40	0.00785	3 100	1185.6	0.004 BDL	0.004	3.8 0.006 0.003
13	Inside Work Area with Crew	05/28/13	7:25 15:40	495	25mm	2.5	2	2.25	0.00785	5 100	1113.75	0.004 BDL	0.004	6.4 0.006 0.003
14	Outside Work Area Southwest Door	05/28/13	7:26 15:41	495	25mm	2.5	2	2.25	0.00785	1 100	1113.75	0.004 BDL	0.004	1.3 0.006 0.003
15	Adjacent to Decor 1st Level	05/28/13	7:26 15:40	494	25mm	2.5	2.3	2.40	0.00785	3 100	1185.6	0.004 BDL	0.004	3.8 0.006 0.003
16	Adjacent to Loadout 1st Level	05/28/13	7:27 15:40	493	25mm	2.5	2.3	2.40	0.00785	4 100	1183.2	0.004 BDL	0.004	5.1 0.006 0.003
17	Loadout Jose Parra Lic #279472 Full Face	05/28/13	13:40 15:45	125	25mm	2.5	2.4	2.45	0.00785	1 100	306.25	0.016 BDL	0.016	1.3 0.022 0.010

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

Christopher K. Anderson

Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

afm 1

Earth Tech Enterprises, Inc.
 3336 E. 32nd, Suite 234
 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Time	Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
18	Loadout Jose Parra Lic #279472 Full Face	05/28/13	13:40 15:45	125	25mm	2.5	2.5	2.50	0.00785	1 100	312.5	0.016 BDL	0.016	1.3	0.021 0.010
19	Blank - 1	05/28/13			25mm				0.00785	0 100				0.0	
20	Blank - 2	05/28/13			25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

Christopher K. Kubiak

Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

afm 1

Earth Tech Enterprises, Inc.
 3336 E. 32nd, Suite 234
 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Time	Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
21	Clearance Hallway East Building	05/29/13	7:11 9:17	126	25mm	9.8	9.8	9.80	0.00785	3.5 100	1234.8	0.004 BDL	0.004	4.5	0.005 0.003
22	Clearance Hallway East Building	05/29/13	7:11 9:17	126	25mm	9.8	9.8	9.80	0.00785	1.5 100	1234.8	0.004 BDL	0.004	1.9	0.005 0.003
23	Clearance Hallway East Building	05/29/13	7:11 9:17	126	25mm	9.8	9.8	9.80	0.00785	3 100	1234.8	0.004 BDL	0.004	3.8	0.005 0.003
24	Clearance Hallway East Building	05/29/13	7:12 9:17	125	25mm	9.8	9.8	9.80	0.00785	1 100	1225	0.004 BDL	0.004	1.3	0.005 0.003
25	Clearance Hallway East Building	05/29/13	7:12 9:17	125	25mm	9.8	9.8	9.80	0.00785	1 100	1225	0.004 BDL	0.004	1.3	0.005 0.003
26	Blank - 1	05/29/13			25mm				0.00785	0 100				0.0	
27	Blank - 2	05/29/13			25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

Christopher K. Verbeegen

Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

afirm 1

Earth Tech Enterprises, Inc.
 3336 E. 32nd, Suite 234
 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Time	Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
1	P.1 Chineyeze Dorsla Lic #400862 Full Face	05/30/13	13:35 16:20	165	25mm	2.5	2.4	2.45	0.00785	5 100	404.25	0.012 BDL	0.012	6.4	0.016 0.008
2	P.2 Tommy Bullock Lic #400864 Full Face	05/30/13	13:35 16:20	165	25mm	2.5	2.5	2.50	0.00785	3 100	412.5	0.012 BDL	0.012	3.8	0.016 0.008
3	Inside Work Area with Crew	05/30/13	13:35 16:20	165	25mm	2.5	2.4	2.45	0.00785	5.5 100	404.25	0.012 BDL	0.012	7.0	0.016 0.008
4	Outside Work Area at Windows - East	05/30/13	13:40 16:24	164	25mm	2.5	2.3	2.40	0.00785	1 100	393.6	0.012 BDL	0.012	1.3	0.017 0.008
5	Adjacent to Decon North	05/30/13	13:33 16:23	170	25mm	2.5	2.3	2.40	0.00785	1 100	408	0.012 BDL	0.012	1.3	0.016 0.008
6	Adjacent to Loadout Southwest	05/30/13	13:29 16:16	167	25mm	2.5	2.3	2.40	0.00785	1 100	400.8	0.012 BDL	0.012	1.3	0.016 0.008
7	Blank - 1	05/30/13			25mm				0.00785	0 100				0.0	
8	Blank - 2	05/30/13			25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

Christopher K. Keenan

Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

afm 1

Earth Tech Enterprises, Inc.
 3336 E. 32nd, Suite 234
 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
9	P.1 Rodney Roland Lic #401013 Full Face	05/31/13	7:11 9:48	157 25mm	2.5	2.4	2.45	0.00785	2 100	384.65	0.013 BDL	0.013	2.5	0.017 0.008
10	P.2 Samuel Hennessy Lic #400865 Full Face	05/31/13	7:11 9:48	157 25mm	2.5	2.3	2.40	0.00785	1 100	376.8	0.013 BDL	0.013	1.3	0.018 0.009
11	Inside Work Area with Crew	05/31/13	7:11 9:48	157 25mm	2.5	2.4	2.45	0.00785	1 100	384.65	0.013 BDL	0.013	1.3	0.017 0.008
12	Outside Work Area at Windows - East	05/31/13	7:13 9:43	150 25mm	2.5	2.4	2.45	0.00785	1 100	367.5	0.013 BDL	0.013	1.3	0.018 0.009
13	Adjacent to Decon North	05/31/13	7:11 9:47	156 25mm	2.5	2.5	2.50	0.00785	2 100	390	0.013 BDL	0.013	2.5	0.017 0.008
14	Adjacent to Loadout Southwest	05/31/13	7:09 9:45	156 25mm	2.5	2.3	2.40	0.00785	3 100	374.4	0.013 BDL	0.013	3.8	0.018 0.009
15	Loadout Chineyeze Dorsla Lic #400862 Full Face	05/31/13	7:15 9:40	145 25mm	2.5	2.4	2.45	0.00785	1 100	355.25	0.014 BDL	0.014	1.3	0.019 0.009
16	Loadout at Trailer Southeast	05/31/13	7:15 9:40	145 25mm	2.5	2.4	2.45	0.00785	1 100	355.25	0.014 BDL	0.014	1.3	0.019 0.009

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

Christopher K. Kubiak

Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

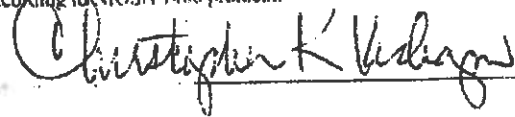
afm 1

Earth Tech Enterprises, Inc.
 3336 E. 32nd, Suite 234
 Tulsa, OK 74135
 918-712-9163

Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Time	Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
---------------	----------------	------	-------------	------------	----------	------------	-----------	----------------	---------------	-------------	-----------------------	---------------	-----------	------------	---------

17	Blank - 1	05/31/13			25mm				0.00785	0 100				0.0	
18	Blank - 2	05/31/13			25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.


Environmental Action, Inc
 PO Box 1029
 Jenks, OK 74037

afm 1

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Project McAlester National Guard Armory
 McAlester, OK

Sample Number	Identification	Date	Time On/Off	Total Dia	Cass Dia	Flow Start	Flow Stop	Flow Rate Avg.	Field of View	Fiber Count	Volume Sampled Liters	Fibers per cc	Det Limit	Fibers mm2	UCL LCL
19	Clearance West Building Contained Area	05/31/13	12:46 14:51	125	25mm	9.8	9.8	9.80	0.00785	1 100	1225	0.004 BDL	0.004	1.3	0.005 0.003
20	Clearance West Building Contained Area	05/31/13	12:46 14:51	125	25mm	9.8	9.8	9.80	0.00785	2.5 100	1225	0.004 BDL	0.004	3.2	0.005 0.003
21	Clearance West Building Contained Area	05/31/13	12:49 14:53	124	25mm	9.8	9.8	9.80	0.00785	1 100	1215.2	0.004 BDL	0.004	1.3	0.005 0.003
22	Clearance West Building Contained Area	05/31/13	12:49 14:53	124	25mm	9.8	9.8	9.80	0.00785	1 100	1215.2	0.004 BDL	0.004	1.3	0.005 0.003
23	Clearance West Building Contained Area	05/31/13	12:49 14:53	124	25mm	9.8	9.8	9.80	0.00785	6 100	1215.2	0.004 BDL	0.004	7.6	0.005 0.003
24	Blank - 1	05/31/13			25mm				0.00785	0 100				0.0	
25	Blank - 2	05/31/13			25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

Christopher K. Kordyans



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

WASTE CONNECTIONS INC.
connected to the future

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 0042796

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: NATIONAL GUARD ARMY b. Generating Location: _____
 c. Address: 319 E. 30th Ave. d. Address: _____
McAlester, OK 73501
 e. Phone No. _____ f. Phone No. _____
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Purchase Order No.: _____

i. WC WASTE CODE:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

0 R C L 10--276

j. Description of Waste: OL. ASBESTOS, P. WA276, PG018 k. Quantity: 182 Units: Containers: No. TYPE:

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations, AND if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

JACK GARD Generator Authorized Agent Name [Signature] Signature 6/2/10 Shipment Date

TYPE	
DM	- METAL DRUM
DF	- PLASTIC DRUM
B	- BAG
BA	- 3 MIL. PLASTIC BAG of WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

Section II TRANSPORTER (Generator completes a-c; Transporter I completes d-f; Transporter II completes g-i)

TRANSPORTER I

a. Name: LOWERY TRANSPORTATION CO., INC. h. Name: _____
 b. Address: P. O. Box 307 i. Address: _____
Stilwell, OK 73002
 c. Driver Name/Title: WALTER DELROT j. Driver Name/Title: _____
 d. Phone No: 405-675-3078 k. Phone No: _____ i. Truck No: _____
221974 OK l. Vehicle License No./State: _____
 m. Vehicle License No./State: _____
 Acknowledgment of Receipt of Materials

--	--	--	--	--

 n. Acknowledgment of Receipt of Materials

--	--	--	--	--

 g. Driver Signature: [Signature] Shipment Date: _____ Driver Signature: _____ Shipment Date: _____

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: WASTE CONNECTIONS c. Phone No.: (405) 745-3091
 b. Physical Address: Oklahoma City Landfill d. Fax No.: (405) 745-3511
7600 S.W. 15th • Oklahoma City, OK 73126
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Name of Authorized Agent: [Signature] Signature 06/05/10 021 [Signature] Receipt Date

Section IV SHIPPER (Generator completes a-d; i.e., shipper* completes e-g)

a. Shipper's Name: ENVIRONMENTAL ACTION, INC. b. Shipper's Phone No.: 918-266-4000
 c. Shipper's Address: P. O. Box 1075, Jenks, OK 74037
 d. Shippers' Special Handling Instructions and additional information: _____

CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Shipper's Name & Title: JACK GARD, SHIPPER b. Shipper's Phone No.:

--	--	--	--	--

 f. Name and Address of Responsible Agency: OWO, 707 N. Robinson, OKC, OK 73101 Date:
 g. Friable: Non-friable, Both _____ % friable _____ % nonfriable

*Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both
 WC1000 (Rev. 6/12)
 White - Destination Retain Green - Return to Generator Canary - Return to Operator Pink - Transporter Retain Goldenrod - Generator Retain

RECEIVED

JUL 15 2014

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL REPORT

FOR

Remediation of Lead Paint and Lead Contamination **McAlester Armory**

319 East Polk Ave.
McAlester, OK 74502

BY

ABATEMENT SYSTEMS, INC.
P.O. BOX 773
BROKEN ARROW, OK. 74013
(918) 251-2504 / (800) 256-2096
Abatement2@aol.com

219330 CD ___ #c 1 c/o LY

D. Dandson

MCALESTER ARMORY

TABLE OF CONTENTS

FLOOR PLAN(S)

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WASTE MANIFEST

Analytical Report

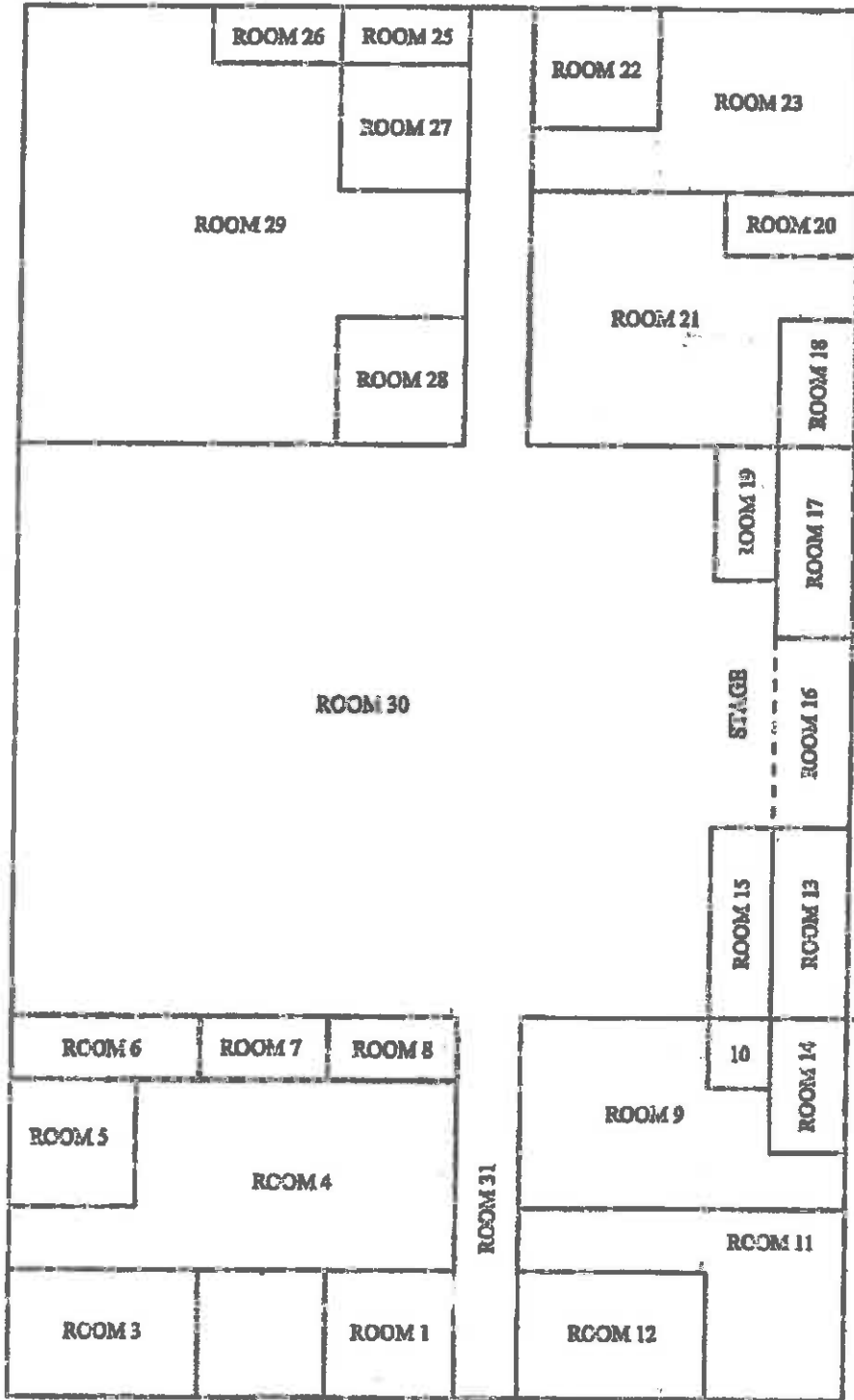
Waste Material Profile

Waste Manifest

PHOTO DOCUMENTATION

McAlester Armory

FLOOR PLANS

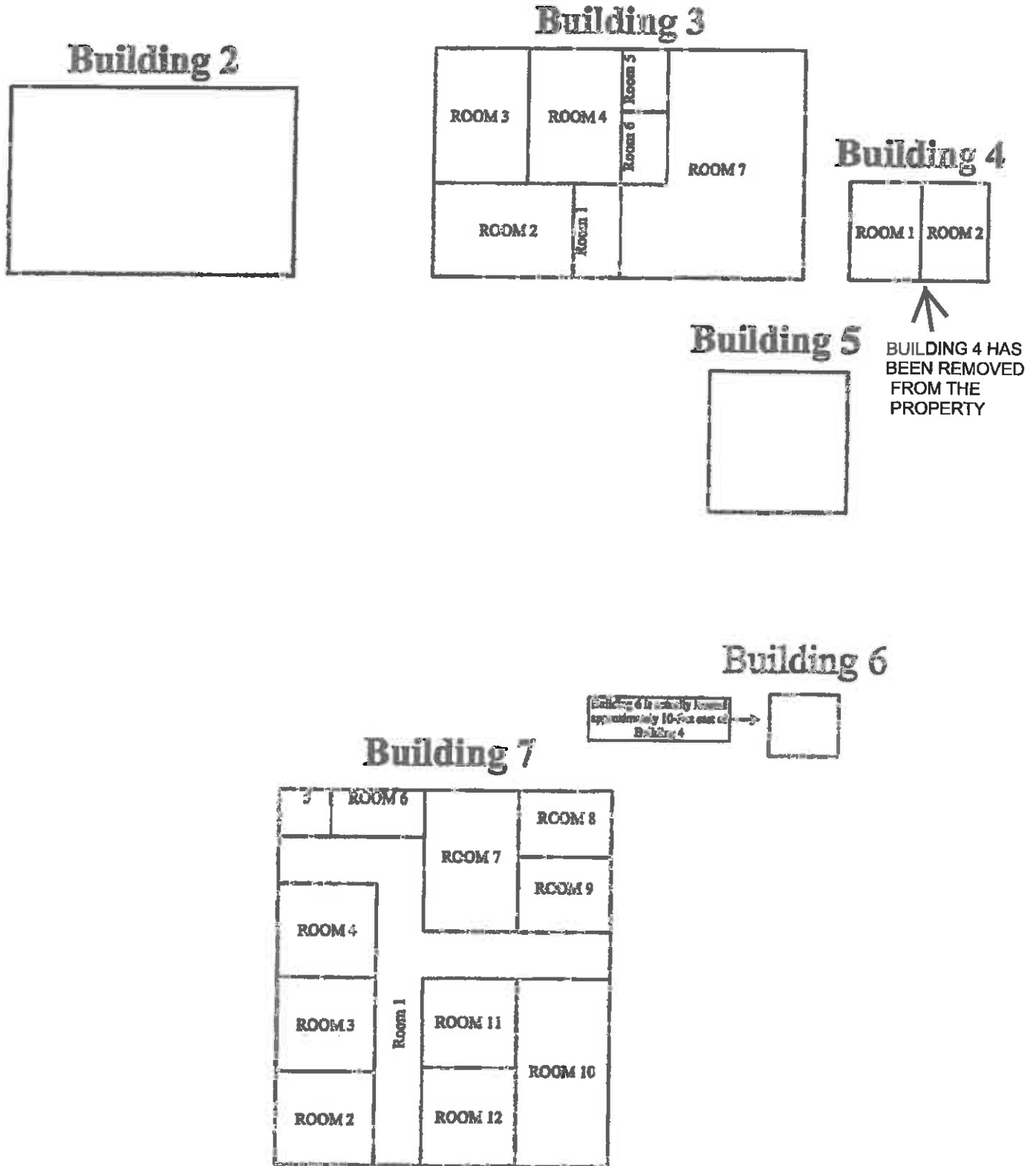


SCALE 1" = 10'



McAlester Armory Auxiliary Buildings

FLOOR PLANS



MCALESTER ARMORY

SUMMARY OF WORK

After preparing the work area(s) the Non-Friction and Non-Impact Surfaces (Building 1 Down Spouts [Roof Drains], Window Lintels, Window Sills, Overhead Door Frames, Guards, and Casings, Building 3 Overhead Door Guards, Building 6 Exterior Trim, Building 7 [Room 4 North Wall]) were wet scraped, painted with an approved neutral colored primer and encapsulated with an approved elastometric encapsulant as specified per contract. All paint was removed from the drill floor hand rails and they were painted with an approved neutral colored primer. Wood trim in Room 31 and all interior window bars were removed and, along with deteriorated paint, properly disposed.

As the areas became available the Friction and Impact Surfaces were abated as follows:

All lead based paint was visible removed from the yellow door threshold on the South side of Building 1 as well as the lead based paint on the floor of Room 2. Then the steps were HEPA vacuumed, wet washed and properly sealed with an approved sealant.

Windows were removed and replaced per contract. All interior and exterior window sills were HEPA vacuumed and wet washed after the windows were removed and replaced. Once the window sills were cleaned they were encapsulated with an approved lead-based paint encapsulant.

Doors and door frames were removed/replaced per contract.

All lead-based paint removed from surfaces was deemed hazardous waste and was properly disposed along with the materials, HEPA filters, and other disposable items used.

Accumulated ground water in the IFR was pumped, filtered and stored in tanks. Sampling/Analysis was conducted on the stored water and, based upon test results, was properly disposed. Sand and sludge from the IFR floor was accumulated in drums and properly disposed as hazardous waste. The Indoor Firing Range (IFR) was prepped, the walls, floor, ceiling, vent fan, and other structures were HEPA vacuumed and wet washed. An approved two part epoxy mixture was applied in the IFR impact area. Once the IFR was remediated to 200 ug/sf the floor, ceiling, and walls were sealed with approved sealant.

In the remaining building(s) (floors of Buildings 1, 2, 3, 5, 6, & 7), surfaces above the floor(s) were cleaned to avoid recontamination of the floors. The floors were then HEPA vacuumed and wet washed.

Both DEQ and Marshall Environmental were notified for their clearance inspections.

Clearances were achieved in all areas of all buildings. Final inspection was conducted with DCS and DEQ representatives and all work was accepted as complete.

MCALESTER ARMORY

SAMPLE RESULTS

(See Summary of Work.)

Subj: **20140337 Analytical Report**
Date: 4/24/2014 3:51:03 P.M. Central Daylight Time
From: info@outreachlab.com
To: abatement2@aol.com

Maryanne Huckins | Outreach Laboratory
Administrative Assistant | Sample Receipt
P (918) 251-2515 | F (918) 521-0008
311 N Aspen Ave | Broken Arrow, OK 74012
info@outreachlab.com | www.outreachlab.com



8(a), SDB, NELAP, ELAP Certified, HUBZone



**Outreach
Laboratory**

311 North Asper
Broken Arrow, OK 75014
PH: 201-451-
FAX: (201) 251-0008



**LABORATORY
ACCREDITATION
BUREAU
ACCREDITED**



Certificate # L 2284 Testing



Case Narrative

Lab No: 20140337

This report contains the analytical results for the 5 sample(s) received under chain of custody by Outreach Laboratory on 04/08/14 17:00:29. These samples are associated with your McAlester Armort IFR project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below:

The test results in this report meet all NELAC requirements unless noted below.

This report shall not be reproduced, except in full, without the written approval of Outreach Laboratory.

All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client.

Observations / Nonconformances

Waste Manifest

Client: Abatement Systems, Inc
 Client Project: McAlester Airport IFR
 Lab Number: 20140337
 Date Reported: 04/24/14
 Date Received: 4/8/14
 Page Number: 2 of 3



**Outreach
 Laboratory**
 311 North Aspen
 Broken Arrow, OK 74012
 (918) 251-2515
 FAX (918) 251-0098

Analytical Report

Method	Result	DL	LOD	LOQ	Units	Qual.	Prep Date	Analysis Date	Analyst
Lab ID: 20140337-01									
Client ID: IFR Water #2									
Date Sampled: 04/04/14 10:15:00									
Matrix: NPW									
Metals Analyses									
Lead	EPA 200.7	2.92	0.002	0.005	mg/l		04/10/14	04/14/14	RE
Phosphorus	EPA 200.7	0.305	0.010	0.030	mg/l		04/16/14	04/14/14	RE
Lab ID: 20140337-02									
Client ID: TCLP #1 Sand & Sludge									
Date Sampled: 04/04/14									
Matrix: SCM									
Metals Analyses									
Lead	EPA 6010B*	388	0.358	1.00	mg/kg		04/09/14	04/14/14	RE
Lab ID: 20140337-03									
Client ID: TCLP #2 Sand & Sludge									
Date Sampled: 04/04/14									
Matrix: SCM									
Metals Analyses									
Lead	EPA 6010B*	4590	8.36	21.0	mg/kg		04/09/14	04/21/14	RE
Lab ID: 20140337-04									
Client ID: TCLP #3 Sand & Sludge									
Date Sampled: 04/04/14									
Matrix: SCM									
Metals Analyses									
Lead	EPA 6010B*	8170	8.36	21.0	mg/kg		04/09/14	04/21/14	RE
Lab ID: 20140337-05									
Client ID: TCLP #4 Composite Porous Materials									
Date Sampled: 04/04/14									
Matrix: SCM									
Metals Analyses									
Lead	EPA 6010B*	650	0.398	1.00	mg/kg		04/09/14	04/14/14	RE

*NELAP Certified Parameter

BDL = Below Detection Limit

Waste Manifest



**Outreach
Laboratory**

311 North Aspen
Broken Arrow, OK 74012
(918) 231-2513
FAX: (918) 231-0028

Client: Abatement Systems, Inc.
Client Project: McAlester Armort IFR
Lab Number: 20140237
Date Reported: 04/24/14
Date Received: 4/8/14
Page Number: 3 of 3

QC Report

Parameter	Blank	LCS %REC	LCS/D		DUP RPD	RER, NAD or DER	MS %REC	MSD		Date
			%REC	RPD				%REC	RPD	
Lead	0.700	97.1					93.6	91.9	1.9	04/14/14
Lead	0.005	102.0					100.0	102.0	2.0	04/14/14
Phosphorus	0.005	102.0					98.4	97.4	0.9	04/14/14

Lab Approval: _____

CHAIN OF CUSTODY

RESULTS TO:

Company: **ABATEMENT SYSTEMS, INC.**
 Name: **STEVE FULPS**
 Address: **P.O. B. 773**
 City: **P.A.** State: **GA** Zip: **30403**
 Phone: **918 251-2504** Fax: **918 251-2504**
 Data: **Hardcopy Lvl 2 or Lvl 4*** EDD: **ABATEMENT Z @ AOL.COM**
 Email address: **ABATEMENT Z @ AOL.COM**

Outreach Laboratory
Analytically beyond the standard

311 North Aspen
 Broken Arrow, OK 74012
 Phone: (918) 251-2515
 Fax: (918) 251-4008
 www.outreachlab.com

ANALYSIS REQUESTED

Project:	Requested Turnaround Time:	Sample/cooler Return address:	Sampler signature:	Client Sample ID	Date Sampled	Time Sampled	Matrix	Containers	Container Size	Preservative	Remarks (i.e. Filtered, Unfiltered, Grab, Composite)
			<i>Mc Alexander, Henry J</i>	TRK WATER #2	4/14/03	10:15	WATER				Filtered
				TCLP #1 Sand & Sludge #2							Grab
				#3							Composite
				#4 Composite							Composite

RELINQUISHED BY: *Steve Fulps* DATE: **4/14/03** TIME: **3:24 PM** RECEIVED BY: *[Signature]* DATE: **4/14/03** TIME: **3:27**

Method of Transport: **Hand**
 Standard Condition upon Receipt: **Good**
 Container Seal Intact: **Yes**
 Ambient Temperature: **2040337**
 Lab Product #: **2040337**
 Page: **1** of **1**

My signature on this chain of custody form indicates that I am authorized by the above company to release samples for analysis. The company agrees to pay the entire balance upon receipt of sample data and it is understood and agreed that any balance carried over thirty (30) days is subject to a 1.5% per month (18% per annum) late charge. In the event of default, the company becomes legally liable for any reasonable attorney and/or collection fees and all related costs necessary to remit the entire balance to Outreach Technologies, Inc. (Outreach Laboratory).
 *Additional charges apply for non-standard turn-times and EDD formats for hardcopies. Level 4 data pages, and reactive sample disposal or return

Waste Manifest



WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH807244

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # **OKP410183989** GENERATOR NAME **Oklahoma Department of Environmental Quality**
 GENERATOR CODE (Assigned by Clean Harbors) **OK9617** CITY **Broken Arrow** STATE/PROVINCE **OK** ZIP/POSTAL CODE **74013**
 ADDRESS **2400 E. College** PHONE: (918) 251-2504
 CUSTOMER CODE (Assigned by Clean Harbors) **EM000047** CUSTOMER NAME: **Environmental Management Inc**
 ADDRESS **5200 NE Highway 33 PO Box 700** CITY **Guthrie** STATE/PROVINCE **OK** ZIP/POSTAL CODE **73044**

B. WASTE DESCRIPTION

WASTE DESCRIPTION: **Lead Contaminated Sand**

PROCESS GENERATING WASTE: **Military Shooting Range Cleanup**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE <input checked="" type="checkbox"/> SOLID WITHOUT FREE LIQUID POWDER NONLITHIC SOLID LIQUID WITH NO SOLIDS LIQUID/SOLID MIXTURE % FREE LIQUID % SETTLED SOLID % TOTAL SUSPENDED SOLID SLUDGE GAS/AEROSOL	NUMBER OF PHASES/LAYERS 1 2 3 TOP 0.00 % BY VOLUME (Approx.) MIDDLE 0.00 BOTTOM 0.00				VISCOSITY (if liquid present) 1 - 100 (e.g. Water) 101 - 500 (e.g. Motor Oil) 501 - 10,000 (e.g. Molasses) > 10,000		COLOR Tan		
	ODOR <input checked="" type="checkbox"/> NONE MILD STRONG Describe:		BOILING POINT °F (°C) <= 95 (<=35) 95 - 100 (35-38) 101 - 129 (38-54) >= 130 (>=54)		MELTING POINT °F (°C) < 140 (<60) 140-200 (60-93) <input checked="" type="checkbox"/> > 200 (>93)		TOTAL ORGANIC CARBON <input checked="" type="checkbox"/> <= 1% 1-9% >= 10%		
	FLASH POINT °F (°C) < 73 (<23) 73 - 100 (23-38) 101 - 140 (38-60) 141 - 200 (60-93) > 200 (>93)		pH <= 2 2.1 - 6.9 <input checked="" type="checkbox"/> 7 (Neutral) 7.1 - 12.4 >= 12.5		SPECIFIC GRAVITY < 0.8 (e.g. Gasoline) 0.8 - 1.0 (e.g. Ethanol) 1.0 (e.g. Water) 1.0 - 1.2 (e.g. Antifreeze) <input checked="" type="checkbox"/> > 1.2 (e.g. Methylene Chloride)		ASH < 0.1 0.1 - 1.0 1.1 - 5.0 5.1 - 20.0 > 20 <input checked="" type="checkbox"/> Unknown		BTU/LB (MJ/kg) <input checked="" type="checkbox"/> < 2,000 (<4.6) 2,000-5,000 (4.6-11.6) 5,000-10,000 (11.6-23.2) > 10,000 (>23.2) Actual:

D. COMPOSITION (List the complete composition of the waste. Include any inert components and/or debris. Fractions for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	MAX	UOM
LEAD	388.0000000	8170.0000000	PPM
LEAD (FROM PAINT)	1.0000000	99.0000000	%
PPE	2.0000000	25.0000000	%
SAND	5.0000000	25.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX. METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING: ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE **G39** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE **W002**



Clean Harbors Profile No. CH807244

E. CONSTITUENTS

Are these values based on testing or knowledge?

Knowledge Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				<input checked="" type="checkbox"/>
D005	BARIUM	100.0				<input checked="" type="checkbox"/>
D006	CADMIUM	1.0				<input checked="" type="checkbox"/>
D007	CHROMIUM	5.0				<input checked="" type="checkbox"/>
D008	LEAD	5.0	388.0000	6170.000000	PPM	
D009	MERCURY	0.2				<input checked="" type="checkbox"/>
D010	SELENIUM	1.0				<input checked="" type="checkbox"/>
D011	SILVER	5.0				<input checked="" type="checkbox"/>
VOLATILE COMPOUNDS				OTHER CONSTITUENTS	MAX	UOM
D018	BENZENE	0.5		BROMINE		<input checked="" type="checkbox"/>
D019	CARBON TETRACHLORIDE	0.5		CHLORINE		<input checked="" type="checkbox"/>
D021	CHLOROBENZENE	100.0		FLUORINE		<input checked="" type="checkbox"/>
D022	CHLOROFORM	0.5		IODINE		<input checked="" type="checkbox"/>
D028	1,2-DICHLOROETHANE	0.5		SULFUR		<input checked="" type="checkbox"/>
D029	1,1-DICHLOROETHYLENE	0.7		POTASSIUM		<input checked="" type="checkbox"/>
D035	METHYL ETHYL KETONE	200.0		SODIUM		<input checked="" type="checkbox"/>
D039	TETRACHLOROETHYLENE	0.7		AMMONIA		<input checked="" type="checkbox"/>
D040	TRICHLOROETHYLENE	0.5		CYANIDE AMENABLE		<input checked="" type="checkbox"/>
D043	VINYL CHLORIDE	0.2		CYANIDE REACTIVE		<input checked="" type="checkbox"/>
SEMI-VOLATILE COMPOUNDS				CYANIDE TOTAL		<input checked="" type="checkbox"/>
D023	o-CRESOL	200.0		SULFIDE REACTIVE		<input checked="" type="checkbox"/>
D024	m-CRESOL	200.0				
D025	p-CRESOL	200.0				
D026	CRESOL (TOTAL)	200.0				
D027	1,4-DICHLOROBENZENE	7.5				
D030	2,4-DINITROTOLUENE	0.13				
D032	HEXACHLOROBEZENE	0.13				
D033	HEXACHLOROCYCLOHEPTADIENE	0.5				
D034	HEXACHLOROETHANE	3.0				
D036	NITROBENZENE	2.0				
D037	PENTACHLOROPHENOL	100.0				
D038	PYRIDINE	5.0				
D041	2,4,5-TRICHLOROPHENOL	400.0				
D042	2,4,6-TRICHLOROPHENOL	2.0				
PESTICIDES AND HERBICIDES						
D012	ENDRIN	0.02				
D013	LINDANE	0.4				
D014	METHOXYCHLOR	0.0				
D015	TOXAPHENE	0.5				
D016	2,4-D	10.0				
D017	2,4,5-TP (SILVEX)	1.0				
D030	CHLORDANE	0.05				
D031	HEPTACHLOR (AND ITS EPOXIDES)	0.008				

HCBs <input checked="" type="checkbox"/> NONE < 1000 PPM >= 1000 PPM	PCBs <input checked="" type="checkbox"/> NONE < 50 PPM >= 50 PPM IF PCBs ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761? YES <input checked="" type="checkbox"/> NO
--	---

ADDITIONAL HAZARDS
 DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES NO (If yes, explain)

CHOOSE ALL THAT APPLY

- DEA REGULATED SUBSTANCE
- EXPLOSIVE
- FUMING
- OSHA REGULATED CARCINOGENS
- POLYMERIZABLE
- RADIOACTIVE
- REACTIVE MATERIAL
- NONE OF THE ABOVE

Waste Manifest



Clean Harbors Profile No. CH807244

F. REGULATORY STATUS

YES NO USEPA HAZARDOUS WASTE?
D008

YES NO DO ANY STATE WASTE CODES APPLY?
 Texas Waste Code **OUTS002H**

YES NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?
 LDR CATEGORY: **This is subject to LDR**
 VARIANCE INFO:

YES NO IS THIS A UNIVERSAL WASTE?

YES NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(iii))?

YES NO DOES TREATMENT OF THIS WASTE GENERATE A F001 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS \geq 500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE \geq 0.044 PSIA?

YES NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE \geq 17 KPA (1.2 PSIA)?

YES NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE?

YES NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?
 Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?
 YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is the waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?
 YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) $>$ 10 Megayears?
 What is the TAB quantity for your facility? _____ Megagram/yr (1 Mg = 2,200 lbs)
 The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing
 Describe the knowledge: _____

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME
RQ, UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (LEAD), 9, PG III

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

<input checked="" type="checkbox"/> CONTAINERIZED		BULK LIQUID		BULK SOLID	
0-0 CONTAINERS/SHIPMENT		GALLONS/SHIPMENT: 0 Min - 0 Max	GAL.	SHIPMENT UOM	TON YARD
STORAGE CAPACITY: 17					
CONTAINER TYPE					TONS/YARDS/SHIPMENT: 0 Min - 0 Max
CUBIC YARD BOX	PALETTE				
TOTE TANK	<input checked="" type="checkbox"/> DRUM				
OTHER:	DRUM SIZE: 55				

I. SPECIAL REQUEST

COMMENTS OR REQUESTS

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized signatory. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that my signature is that of a representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, the generator grants Clean Harbors the authority to amend the profile on Clean Harbors' website necessary to reflect the discrepancy.

AUTHORIZED SIGNATURE: NAME (PRINT): **STEVE FULMER** TITLE: **V. Pres.** DATE: **5/15/14**

This waste profile has been submitted using Clean Harbors' electronic signature system.

*40 CFR Sec. 264.12 required notice



As required by Federal Resource Conservation and Recovery Act regulations, found in 40 CFR Part 264.12(b) and all equipment used to handle hazardous waste, including but not limited to, Clean Harbors facilities that may be used to store, store, and/or dispose of the hazardous waste described on this waste profile have the appropriate permit and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

Waste Manifest

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

Form Approved GMB No. 2050-2039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number OKP419183989	2. Page 1 of	3. Emergency Response Phone 405-282-3513	4. Manifest Tracking Number 011478244 JJK			
5. Generator's Name and Mailing Address Oklahoma Department of Environmental Q 2400 E. College Broken Arrow OK 74013				Generator's Site Address (if different than mailing address) Oklahoma Department of Environmental Quality 2400 E. College Broken Arrow OK 74013				
6. Transporter 1 Company Name Environmental Management, Inc.		U.S. EPA ID Number OKD982293334						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address Clean Harbors Lone Mountain RT 2 Box 170 Wagonka OK 73860-9622				U.S. EPA ID Number OKD065438376				
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit W/L/A	13. Waste Codes
1. U143077, Waste Environmentally hazardous substances, solid, n.o.s. (Lead Contaminated Sand), 9, P.G. III ERG 171				No. 17		1547	G	D008
				Type DM				
14. Special Handling Instructions and Additional Information Sales order # 1400S13363 EM Job # 35105-SK								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, labeled and labeled/retarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste classification statement identified in 40 CFR 262.27(b) (1) am a large quantity generator (LQG) (2) am a small quantity generator (SQG) is true.								
Generator's/Officer's Printed/Typed Name STEVE FULFAS V.P.				Signature 		Month Day Year 06 04 04		
16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of origin: Date leaving U.S.								
17. Transporter's Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Patrick Taylor				Signature 		Month Day Year 06 04 14		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy: <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18a. Discrepancy Indication Space				Manifest Reference Number				
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1		2		3		4		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 18a								
Printed/Typed Name				Signature		Month Day Year		

MCALESTER ARMORY
PHOTO DOCUMENTATION



Bldg 1 - Non-lead contaminated trash on drill floor.

Bldg 1 - Disposal drums and covered work area on drill floor.



MC ALESTER ARMORY
PHOTO DOCUMENTATION



IFR - Trash before removal.

Dumpster with some of the trash being removed.



**MCALESTER ARMORY
PHOTO DOCUMENTATION**



Bldg 1 - Pumps, hoses and containers for IFR water removal.

Stairwell to IFR (Water on floor).



MCALESTER ARMORY
PHOTO DOCUMENTATION



IFR - Pumping water out.

IFR - Exhaust fan.

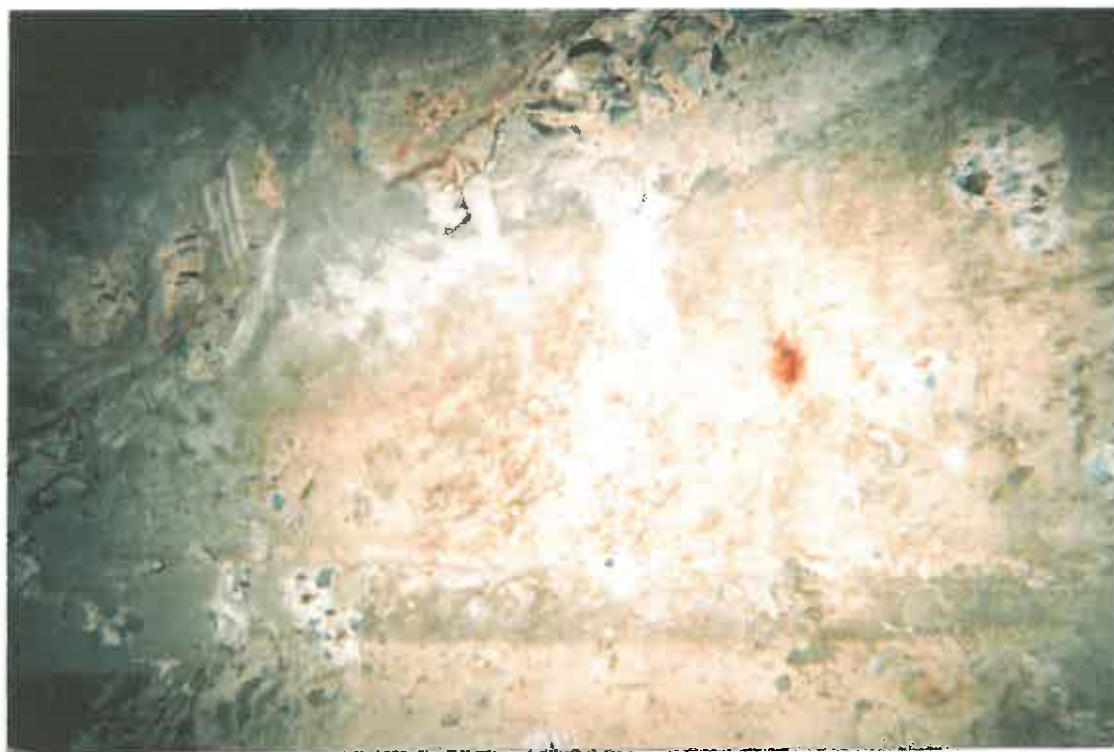


MCALISTER ARMORY
PHOTO DOCUMENTATION



IFR - Post cleaning.

IFR - Some of impact area.



**MCALESTER ARMORY
PHOTO DOCUMENTATION**

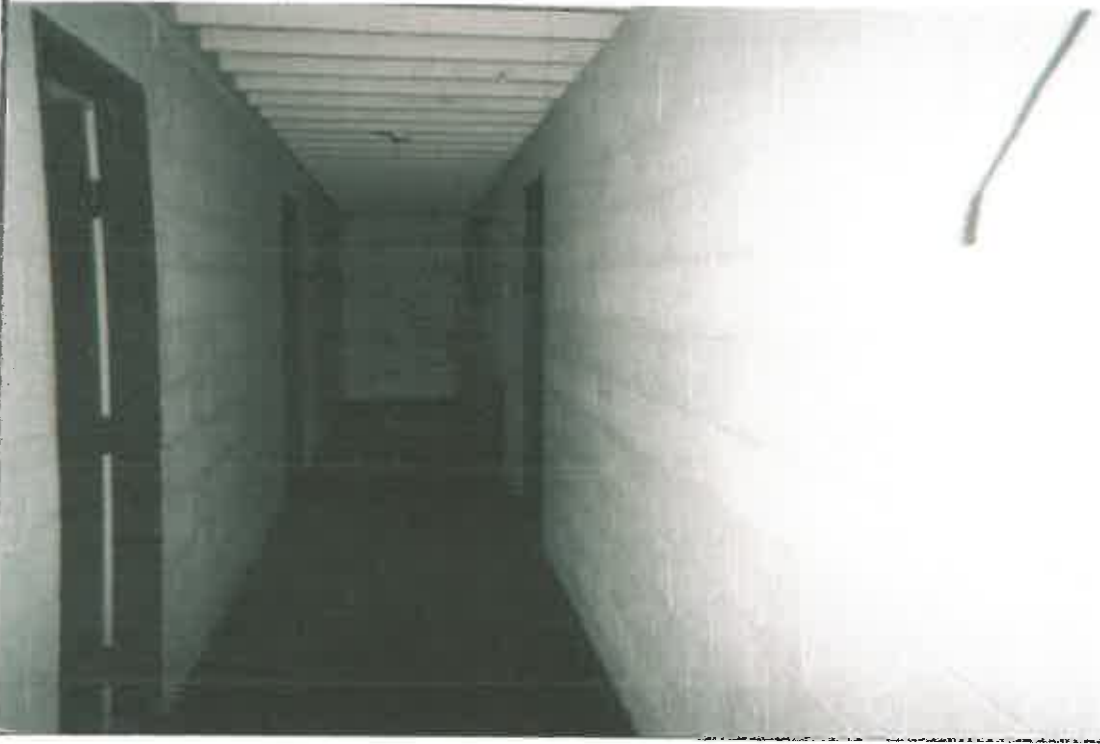


Bldg 7 - Loose and peeling paint.

Bldg 7 - Entry door secured.



MCALESTER ARMORY
PHOTO DOCUMENTATION



BLDG 7 - Hallway.

BLDG 7 - Door frame and room.



MC ALESTER ARMORY
PHOTO DOCUMENTATION



Bldg 1 - Downspout and door frame before abatement of loose and peeling paint.



Bldg 1 - Downspout and door frame after abatement and encapsulation.

**MCALESTER ARMORY
PHOTO DOCUMENTATION**



**Bldg 1 - Door frame/guards before
abatement of loose and peeling paint.**

**Bldg 1 - Door frame/guards after
abatement and encapsulation.**



**MCALESTER ARMORY
PHOTO DOCUMENTATION**



Downspout being encapsulated after abatement of loose and peeling paint.

Window lintels and sills after abatement and encapsulation.



MCALESTER ARMORY
PHOTO DOCUMENTATION



Window sill before abatement of loose and peeling paint.

Window sill after abatement and encapsulation.



**MCALESTER ARMORY
PHOTO DOCUMENTATION**



Door frame during abatement process.



Door frame after abatement and before encapsulation.

MCALESTER ARMORY
PHOTO DOCUMENTATION



Door frame after abatement and during encapsulation.



Door frame after abatement and before encapsulation.

**MCALESTER ARMORY
PHOTO DOCUMENTATION**



Outside of vault door after abatement of loose and peeling paint and before encapsulation.



Inside of vault door after abatement of loose and peeling paint and before encapsulation.

**MCALESTER ARMORY
PHOTO DOCUMENTATION**



Stairway railing after abatement and before encapsulation.

Exterior window lintels/sills after abatement and encapsulation.



CONFIRMATION SAMPLING

MCALESTER ARMORY

319 E POLK AVENUE

MCALESTER, OK 74502

JUNE 2, 2014

LEAD-CONFIRMATION SAMPLING

CERTIFIED INDUSTRIAL HYGIENE SERVICES PROVIDED FOR:

Oklahoma Department of Environmental Quality

Land Protection Division

Care Of: Dustin Davidson, Environmental Programs Specialist

P.O. Box 1677

Oklahoma City, OK 73102

Phone: 405.702.5115

Email: dustin.davidson@deq.ok.gov

CERTIFIED INDUSTRIAL HYGIENE SERVICES PROVIDED BY:

Marshall Environmental Management, Incorporated

Attention: Jamie Marshall, Senior Industrial Hygiene Associate

1601 SW 89th Street, Suite A-100

Oklahoma City, OK 73159

Phone: 405.616.0401

Email: jm@shenvi.swbell.net

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MCALESTER ARMORY
LEAD-CONFIRMATION SAMPLING

CERTIFICATION

This is to certify that, Marshall Environmental Management, Incorporated (MEM) was contracted by the State of Oklahoma Construction and Properties Division, on behalf of the Oklahoma Department of Environmental Quality (ODEQ) Land Protection Division (LPD), to conduct Lead-Confirmation Sampling at the McAlester Armory (319 East Polk Avenue – McAlester, Oklahoma 74502). The confirmation sampling was performed by Lead-Based Paint (LBP) Inspector/Risk Assessors licensed by the ODEQ and under the direction of Dr. Charles L. Marshall Certified Industrial Hygienist (CIH) and President of MEM. The analytical data resulting from these sampling events is believed to accurately, reflect the concentrations of lead in surface dust at the time sampling was accomplished.

OWNER INFORMATION

State of Oklahoma

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR



June 2, 2014

Jamie Marshall, M.S., Senior Industrial Hygiene Associate
ODEQ Certification Lead-Based Paint Inspector/Risk Assessor

Report Date
OKRASR13418

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR



June 2, 2014

Rachel Woods, B.S., Industrial Hygiene Associate
ODEQ Certification Lead-Based Paint Inspector/Risk Assessor

Report Date
OKRASR13701

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Incorporated
ODEQ Lead-Based Paint Firm Certification: OKFIRM11160
1601 SW 89th Street, Suite A-100 | Oklahoma City, OK 73159
Phone: 405.616.0401 | Email: marshenv@swbell.net

ACCREDITED LABORATORY

Quantem Laboratories | AIHA ID: 101352

EXECUTIVE SUMMARY

As part of the ODEQ LPD Site Cleanup Assistance Program and Armory Cleanup Program and for the purpose of verifying that adequate lead abatement (i.e. removal) measures occurred, MEM representatives performed the Lead-Confirmation Sampling at the McAlester Armory from April 14, 2014 from May 16, 2014. According to the Environmental Protection Agency (EPA)¹ and with regard to common floor surfaces, concentrations of lead in dust following remediation activities and prior to the application of a sealant, which are less than or equal to 40-micrograms per square foot ($\leq 40\text{-}\mu\text{g}/\text{ft}^2$) are acceptable. With regard to windowsills, the EPA states that concentrations of lead in dust post-abatement/pre-sealant that are $\leq 250\text{-}\mu\text{g}/\text{ft}^2$ are acceptable. And, according to the Departments of the Army and the Air Force National Guard Bureau², with regard to any horizontal surface within an indoor-firing-range (IFR), concentrations of lead in dust post abatement/pre sealant that are $\leq 200\text{-}\mu\text{g}/\text{ft}^2$ are acceptable ($40\text{-}\mu\text{g}/\text{ft}^2$ in the case of child exposure). Following the application of an acrylic sealant to the walls, floors and ceiling of the IFR and IFR side room, the ODEQ adheres to clearance level of $40\text{-}\mu\text{g}/\text{ft}^2$ in the case of child exposure.

SAMPLING METHODOLOGY

The sample collection process was carried out in accordance with the regulations proposed by the EPA in 40 Code of Federal Regulations (CFR) part 745. Samples of settled dust were collected by selecting a surface area and then by placing a template of a known dimension firmly against the surface to be sampled. Next, the area within the template was wiped in a particular pattern utilizing a specific wipe. The wipe was then placed in an approved container; the container was labeled and the samples/sampling locations were recorded on the chain of custody. Lastly, samples were submitted, to an accredited laboratory, for analysis. The sampling locations and corresponding laboratory analyses are illustrated on the area diagram included in the appendix to this report.

ANALYTICAL SUMMARIES

On April 14, 2014 following lead-abatement activities (performed by Abatement Systems), 170-samples were collected (by an MEM representative) from various floor, wall and ceiling surfaces within the IFR and IFR side room as well as from various floor surfaces (outside of the IFR). Of the 48-surface samples that were collected within the IFR and IFR side room, 4-sample analyses exceeded the aforementioned Army and Air Force National Guard clearance level of $200\text{-}\mu\text{g}/\text{ft}^2$; and of the 122-samples that were collected from floor surfaces outside the IFR, 7-sample analyses exceeded the aforementioned EPA clearance level of $40\text{-}\mu\text{g}/\text{ft}^2$. The following tables summarize the laboratory data resulting from each sampling event, and the **bolded data** represents lead concentrations that exceeded the appropriate clearance level.

¹Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities (40 Code of Federal Regulations [CFR] Part 745)

²Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges - http://www.ngbpc.ngb.army.mil/pubs/420/ngpam420_15.pdf

TABLE 1: 04-14-14 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1	IFR	166- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
2	IFR	55.4- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
3	IFR	69.2- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
4	IFR	87.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
5	IFR	77.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
6	IFR	155- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
7	IFR	12.2- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
8	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
9	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
10	IFR	19.1- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
11	IFR	11.2- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
12	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
13	IFR	23.9- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
14	IFR	23.3- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
15	IFR	77.4- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
16	IFR	1,410-$\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
17	IFR	4,780-$\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
18	IFR	412-$\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
19	IFR	244-$\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
20	IFR	10.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
21	IFR	175- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
22	IFR	109- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
23	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
24	IFR	11.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
25	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
26	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
27	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
28	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
29	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
30	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
31	IFR Side Room	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
32	IFR Side Room	27.4- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
33	IFR Side Room	16.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
34	IFR Side Room	15.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
35	IFR Side Room	10.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
36	IFR Side Room	14.1- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
37	IFR Side Room	10.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
38	IFR Side Room	12.0- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
39	IFR Side Room	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
40	IFR Side Room	9.16- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
41	IFR Side Room	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
42	IFR Side Room	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$

McAlester Armory – Lead-Confirmation Sampling

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
43	IFR Side Room	<9.00-µg/ft. ²	200- µg/ft. ²
44	IFR Side Room	36.3-µg/ft. ²	200- µg/ft. ²
45	IFR Side Room	<9.00-µg/ft. ²	200- µg/ft. ²
46	IFR Side Room	<9.00-µg/ft. ²	200- µg/ft. ²
47	IFR Side Room	<9.00-µg/ft. ²	200- µg/ft. ²
48	IFR Side Room	<9.00-µg/ft. ²	200- µg/ft. ²
49		<9.00-µg/ft. ²	40 µg/ft. ²
50		21.5-µg/ft. ²	40 µg/ft. ²
51		15.6-µg/ft. ²	40 µg/ft. ²
52		<20.3-µg/ft. ²	40 µg/ft. ²
53		<9.00-µg/ft. ²	40 µg/ft. ²
54		<9.00-µg/ft. ²	40 µg/ft. ²
55		<9.00-µg/ft. ²	40 µg/ft. ²
56		<9.00-µg/ft. ²	40 µg/ft. ²
57		<9.00-µg/ft. ²	40 µg/ft. ²
58		<9.00-µg/ft. ²	40 µg/ft. ²
59		<9.00-µg/ft. ²	40 µg/ft. ²
60		<9.00-µg/ft. ²	40 µg/ft. ²
61		<9.00-µg/ft. ²	40 µg/ft. ²
62		<9.00-µg/ft. ²	40 µg/ft. ²
63		<9.00-µg/ft. ²	40 µg/ft. ²
64		<9.00-µg/ft. ²	40 µg/ft. ²
65		<9.00-µg/ft. ²	40 µg/ft. ²
66		<9.00-µg/ft. ²	40 µg/ft. ²
67		<9.00-µg/ft. ²	40 µg/ft. ²
68		<9.00-µg/ft. ²	40 µg/ft. ²
69		<9.00-µg/ft. ²	40 µg/ft. ²
70		<9.00-µg/ft. ²	40 µg/ft. ²
71		<9.00-µg/ft. ²	40 µg/ft. ²
72		<9.00-µg/ft. ²	40 µg/ft. ²
73		<9.00-µg/ft. ²	40 µg/ft. ²
74		54.2-µg/ft.²	40 µg/ft. ²
75		29.0-µg/ft. ²	40 µg/ft. ²
76		<9.00-µg/ft. ²	40 µg/ft. ²
77		31.5-µg/ft. ²	40 µg/ft. ²
78		<9.00-µg/ft. ²	40 µg/ft. ²
79		22.8-µg/ft. ²	40 µg/ft. ²
80		48.7-µg/ft.²	40 µg/ft. ²
81		226-µg/ft.²	40 µg/ft. ²
82		12.8-µg/ft. ²	40 µg/ft. ²
83		<9.00-µg/ft. ²	40 µg/ft. ²
84		<9.00-µg/ft. ²	40 µg/ft. ²
85		19.8-µg/ft. ²	40 µg/ft. ²

McAlester Armory – Lead-Confirmation Sampling

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
86		<9.00-µg/ft. ²	40 µg/ft. ²
87		20.4-µg/ft. ²	40 µg/ft. ²
88		13.1-µg/ft. ²	40 µg/ft. ²
89		<9.00-µg/ft. ²	40 µg/ft. ²
90		<9.00-µg/ft. ²	40 µg/ft. ²
91		<9.00-µg/ft. ²	40 µg/ft. ²
92		10.1-µg/ft. ²	40 µg/ft. ²
93		10.3-µg/ft. ²	40 µg/ft. ²
94		<9.00-µg/ft. ²	40 µg/ft. ²
95		20.2-µg/ft. ²	40 µg/ft. ²
96		11.7-µg/ft. ²	40 µg/ft. ²
97		49.0-µg/ft.²	40 µg/ft. ²
98		33.9-µg/ft. ²	40 µg/ft. ²
99		36.7-µg/ft. ²	40 µg/ft. ²
100		<9.00-µg/ft. ²	40 µg/ft. ²
101		22.2-µg/ft. ²	40 µg/ft. ²
102		28.8-µg/ft. ²	40 µg/ft. ²
103		93.2-µg/ft.²	40 µg/ft. ²
104		174-µg/ft.²	40 µg/ft. ²
105		47.5-µg/ft.²	40 µg/ft. ²
106		16.5-µg/ft. ²	40 µg/ft. ²
107		13.6-µg/ft. ²	40 µg/ft. ²
108		19.6-µg/ft. ²	40 µg/ft. ²
109		13.0-µg/ft. ²	40 µg/ft. ²
110		13.5-µg/ft. ²	40 µg/ft. ²
111		20.2-µg/ft. ²	40 µg/ft. ²
112		<9.00-µg/ft. ²	40 µg/ft. ²
113		<9.00-µg/ft. ²	40 µg/ft. ²
114		12.0-µg/ft. ²	40 µg/ft. ²
115		17.6-µg/ft. ²	40 µg/ft. ²
116		<9.00-µg/ft. ²	40 µg/ft. ²
117		22.2-µg/ft. ²	40 µg/ft. ²
118		11.2-µg/ft. ²	40 µg/ft. ²
119		11.7-µg/ft. ²	40 µg/ft. ²
120		<9.00-µg/ft. ²	40 µg/ft. ²
121		9.97-µg/ft. ²	40 µg/ft. ²
122		<9.00-µg/ft. ²	40 µg/ft. ²
123		9.90-µg/ft. ²	40 µg/ft. ²
124		<9.00-µg/ft. ²	40 µg/ft. ²
125		<9.00-µg/ft. ²	40 µg/ft. ²
126		<9.00-µg/ft. ²	40 µg/ft. ²
127		<9.00-µg/ft. ²	40 µg/ft. ²
128		<9.00-µg/ft. ²	40 µg/ft. ²

McAlester Armory – Lead-Confirmation Sampling

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
129		<9.00-µg/ft. ²	40 µg/ft. ²
130		15.3-µg/ft. ²	40 µg/ft. ²
131		<9.00-µg/ft. ²	40 µg/ft. ²
132		<9.00-µg/ft. ²	40 µg/ft. ²
133		15.5-µg/ft. ²	40 µg/ft. ²
134		15.9-µg/ft. ²	40 µg/ft. ²
135		9.01-µg/ft. ²	40 µg/ft. ²
136		<9.00-µg/ft. ²	40 µg/ft. ²
137		<9.00-µg/ft. ²	40 µg/ft. ²
138		<9.00-µg/ft. ²	40 µg/ft. ²
139		11.1-µg/ft. ²	40 µg/ft. ²
140		16.9-µg/ft. ²	40 µg/ft. ²
141		22.3-µg/ft. ²	40 µg/ft. ²
142		11.5-µg/ft. ²	40 µg/ft. ²
143		<9.00-µg/ft. ²	40 µg/ft. ²
144		<9.00-µg/ft. ²	40 µg/ft. ²
145		<9.00-µg/ft. ²	40 µg/ft. ²
146		9.58-µg/ft. ²	40 µg/ft. ²
147		<9.00-µg/ft. ²	40 µg/ft. ²
148		<9.00-µg/ft. ²	40 µg/ft. ²
149		<9.00-µg/ft. ²	40 µg/ft. ²
150		<9.00-µg/ft. ²	40 µg/ft. ²
151		11.8-µg/ft. ²	40 µg/ft. ²
152		36.4-µg/ft. ²	40 µg/ft. ²
153		22.8-µg/ft. ²	40 µg/ft. ²
154		<9.00-µg/ft. ²	40 µg/ft. ²
155		<9.00-µg/ft. ²	40 µg/ft. ²
156		<9.00-µg/ft. ²	40 µg/ft. ²
157		<9.00-µg/ft. ²	40 µg/ft. ²
158		<9.00-µg/ft. ²	40 µg/ft. ²
159		<9.00-µg/ft. ²	40 µg/ft. ²
160		<9.00-µg/ft. ²	40 µg/ft. ²
161		<9.00-µg/ft. ²	40 µg/ft. ²
162		<9.00-µg/ft. ²	40 µg/ft. ²
163		<9.00-µg/ft. ²	40 µg/ft. ²
164		<9.00-µg/ft. ²	40 µg/ft. ²
165		12.9-µg/ft. ²	40 µg/ft. ²
166		<9.00-µg/ft. ²	40 µg/ft. ²
167		<9.00-µg/ft. ²	40 µg/ft. ²
168		<9.00-µg/ft. ²	40 µg/ft. ²
169		<9.00-µg/ft. ²	40 µg/ft. ²
170		<9.00-µg/ft. ²	40 µg/ft. ²

Supplemental lead-confirmation sampling was performed on May 1, 2014 (by an MEM representative) following additional abatement activities that included the application of a two-part concrete epoxy on the back and side walls within the IFR. In addition to this, an acrylic sealant was sprayed on all walls, floors and ceilings of the IFR and IFR side room. Of the 48-surface samples that were collected within the IFR and IFR side room, 2-sample analyses exceeded the Army and Air Force National Guard clearance level of 40- $\mu\text{g}/\text{ft}^2$ in the case of child exposure. Of the 45-samples that were collected from floor surfaces outside the IFR, 7-sample analyses exceeded the EPA clearance level of 40- $\mu\text{g}/\text{ft}^2$.

TABLE II: 05-01-14 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
14	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
15	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
16	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
17	IFR	393-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
18	IFR	16.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
19	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
20	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
21	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
22	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
23	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
24	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
25	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
26	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
27	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
28	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
29	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
30	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
31	IFR SIDE ROOM	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
32	IFR SIDE ROOM	75.8-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
33	IFR SIDE ROOM	19.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
34	IFR SIDE ROOM	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

McAlester Armory – Lead-Confirmation Sampling

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
35	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
36	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
37	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
38	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
39	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
40	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
41	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
42	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
43	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
44	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
45	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
46	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
47	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
48	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
49		<9.00-µg/ft. ²	40 µg/ft. ²
50		<9.00-µg/ft. ²	40 µg/ft. ²
51		16.9-µg/ft. ²	40 µg/ft. ²
52		9.78- µg/ft. ²	40 µg/ft. ²
53		<9.00- µg/ft. ²	40 µg/ft. ²
54		<9.00- µg/ft. ²	40 µg/ft. ²
55		<9.00- µg/ft. ²	40 µg/ft. ²
56		33.9- µg/ft. ²	40 µg/ft. ²
57		42.0- µg/ft.²	40 µg/ft. ²
58		84.7- µg/ft.²	40 µg/ft. ²
59		<9.00- µg/ft. ²	40 µg/ft. ²
60		<9.00- µg/ft. ²	40 µg/ft. ²
61		<9.00- µg/ft. ²	40 µg/ft. ²
62		<9.00- µg/ft. ²	40 µg/ft. ²
63		<9.00- µg/ft. ²	40 µg/ft. ²
64		74.3- µg/ft.²	40 µg/ft. ²
65		<9.00- µg/ft. ²	40 µg/ft. ²
66		<9.00- µg/ft. ²	40 µg/ft. ²
67		<9.00- µg/ft. ²	40 µg/ft. ²
68		200- µg/ft.²	40 µg/ft. ²
69		350- µg/ft.²	40 µg/ft. ²
70		238- µg/ft.²	40 µg/ft. ²
71		11.3- µg/ft. ²	40 µg/ft. ²
72		<9.00- µg/ft. ²	40 µg/ft. ²
73		11.5- µg/ft. ²	40 µg/ft. ²
74		<9.00- µg/ft. ²	40 µg/ft. ²
75		11.3- µg/ft. ²	40 µg/ft. ²
76		<9.00- µg/ft. ²	40 µg/ft. ²
77		22.5- µg/ft. ²	40 µg/ft. ²

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
78		<9.00- µg/ft. ²	40 µg/ft. ²
79		<9.00- µg/ft. ²	40 µg/ft. ²
80		38.9- µg/ft. ²	40 µg/ft. ²
81		21.1- µg/ft. ²	40 µg/ft. ²
82		56.0- µg/ft. ²	40 µg/ft. ²
83		<9.00- µg/ft. ²	40 µg/ft. ²
84		<9.00- µg/ft. ²	40 µg/ft. ²
85		<9.00- µg/ft. ²	40 µg/ft. ²
86		<9.00- µg/ft. ²	40 µg/ft. ²
87		<9.00- µg/ft. ²	40 µg/ft. ²
88		<9.00- µg/ft. ²	40 µg/ft. ²
89		<9.00- µg/ft. ²	40 µg/ft. ²
90		<9.00- µg/ft. ²	40 µg/ft. ²
91		18.5- µg/ft. ²	40 µg/ft. ²
92		11.3- µg/ft. ²	40 µg/ft. ²
93		23.7- µg/ft. ²	40 µg/ft. ²
94		<9.00- µg/ft. ²	40 µg/ft. ²

Additional lead-confirmation sampling was performed on May 16, 2014 (by an MEM representative) following supplemental abatement activities that included a second (more dense) application of a two-part concrete epoxy on the back walls within the IFR. Also, a second application of an acrylic sealant was applied to the floor surface of the IFR side room. Of the 2-surface samples that were collected within the IFR and IFR side room, none of the sample analyses exceeded the Army and Air Force National Guard clearance level of 40-µg/ft² in the case of child exposure. Of the 8-samples that were collected from floor surfaces outside the IFR, none of the sample analyses exceeded the EPA clearance level of 40-µg/ft².

TABLE III: 05-16-14 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1	IFR	28.6-µg/ft. ²	40-µg/ft. ²
2	IFR SIDE ROOM	<9.00-µg/ft. ²	40-µg/ft. ²
3		<9.00-µg/ft. ²	40-µg/ft. ²
4		<9.00-µg/ft. ²	40-µg/ft. ²
5		<9.00-µg/ft. ²	40-µg/ft. ²
6		<9.00-µg/ft. ²	40-µg/ft. ²
7		17.0-µg/ft. ²	40-µg/ft. ²
8		<9.00-µg/ft. ²	40-µg/ft. ²
9		<9.00-µg/ft. ²	40-µg/ft. ²
10		<9.00-µg/ft. ²	40-µg/ft. ²

APPENDIX

CHAIN OF CUSTODY FORMS & ANALYTICAL DATA

AREA DIAGRAMS

CERTIFICATES/LICENSURE



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331
Project: McAlester Armory
Location: McAlester, OK
Project No.: 0076-LBP-041514

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	166	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
002	2	Wipe	Lead	55.4	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
003	3	Wipe	Lead	69.2	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
004	4	Wipe	Lead	87.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
005	5	Wipe	Lead	77.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
006	6	Wipe	Lead	155	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
007	7	Wipe	Lead	12.2	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
009	9	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
010	10	Wipe	Lead	19.1	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
011	11	Wipe	Lead	11.2	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
012	12	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
013	13	Wipe	Lead	23.9	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
014	14	Wipe	Lead	23.3	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
015	15	Wipe	Lead	77.4	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
016	16	Wipe	Lead	1,410	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
017	17	Wipe	Lead	4,780	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 234316	Client: Marshall Environmental Management, Inc.
Date Received: 04/16/14	1601 SW 89th Street, Ste. A-100
Received By: Sherrie Leftwich	Oklahoma City, OK 73159
Date Sampled:	Acct. No.: A331
Time Sampled:	Project: McAlester Armory
Analyst: CC	Location: McAlester, OK
Date of Report: 4/18/2014	Project No.: 0076-LBP-041514

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	412	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
019	19	Wipe	Lead	244	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
020	20	Wipe	Lead	10.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
021	21	Wipe	Lead	175	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
022	22	Wipe	Lead	109	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
023	23	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
024	24	Wipe	Lead	11.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
025	25	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
026	26	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
027	27	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
028	28	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
029	29	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
030	30	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
031	31	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
032	32	Wipe	Lead	27.4	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
033	33	Wipe	Lead	16.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
034	34	Wipe	Lead	15.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

Quantem Set ID: 234316	Client: Marshall Environmental Management, Inc.
Date Received: 04/16/14	1601 SW 89th Street, Ste. A-100
Received By: Sherrie Leftwich	Oklahoma City, OK 73159
Date Sampled:	
Time Sampled:	Acct. No.: A331
Analyst: CC	Project: McAlester Armory
Date of Report: 4/18/2014	Location: McAlester, OK
	Project No.: 0076-LBP-041514

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	35	Wipe	Lead	10.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
036	36	Wipe	Lead	14.1	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
037	37	Wipe	Lead	10.7	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
038	38	Wipe	Lead	12.0	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
039	39	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
040	40	Wipe	Lead	9.16	9	ug/sq. Ft.	04/16/14 17:00	W NIOSH 9100
041	41	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
042	42	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
043	43	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
044	44	Wipe	Lead	36.3	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
045	45	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
046	46	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
047	47	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
048	48	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
049	49	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
050	50	Wipe	Lead	21.5	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
051	51	Wipe	Lead	15.6	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

Quantem Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory

Location: McAlester, OK

Project No.: 0076-LBP-041514

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
052	52	Wipe	Lead	20.3	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
053	53	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
054	54	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
055	55	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
056	56	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
057	57	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
058	58	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
059	59	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
060	60	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
061	61	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
062	62	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
063	63	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
064	64	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
065	65	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
066	66	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
067	67	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
068	68	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 234316	Client: Marshall Environmental Management, Inc.
Date Received: 04/16/14	1601 SW 89th Street, Ste. A-100
Received By: Sherrie Leftwich	Oklahoma City, OK 73159
Date Sampled:	
Time Sampled:	
Analyst: CC	Acct. No.: A331
Date of Report: 4/18/2014	Project: McAlester Armory
	Location: McAlester, OK
	Project No.: 0076-LBP-041514

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
069	69	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
070	70	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
071	71	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
072	72	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
073	73	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
074	74	Wipe	Lead	54.2	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
075	75	Wipe	Lead	29.0	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
076	76	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
077	77	Wipe	Lead	31.5	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
078	78	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
079	79	Wipe	Lead	22.8	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
080	80	Wipe	Lead	48.7	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
081	81	Wipe	Lead	226	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
082	82	Wipe	Lead	12.8	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
083	83	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
084	84	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
085	85	Wipe	Lead	19.8	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

Quantem Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory

Location: McAlester, OK

Project No.: 0076-LBP-041514

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
086	86	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
087	87	Wipe	Lead	20.4	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
088	88	Wipe	Lead	13.1	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
089	89	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
090	90	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
091	91	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
092	92	Wipe	Lead	10.1	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
093	93	Wipe	Lead	10.3	9	ug/sq. Ft.	04/17/14 10:10	W NIOSH 9100
094	94	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
095	95	Wipe	Lead	20.2	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
096	96	Wipe	Lead	11.7	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
097	97	Wipe	Lead	49.0	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
098	98	Wipe	Lead	33.9	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
099	99	Wipe	Lead	36.7	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
100	100	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
101	101	Wipe	Lead	22.2	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
102	102	Wipe	Lead	28.8	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331
Project: McAlester Armory
Location: McAlester, OK
Project No.: 0076-LBP-041514

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
103	103	Wipe	Lead	93.2	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
104	104	Wipe	Lead	174	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
105	105	Wipe	Lead	47.5	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
106	106	Wipe	Lead	16.5	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
107	107	Wipe	Lead	13.6	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
108	108	Wipe	Lead	19.6	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
109	109	Wipe	Lead	13.0	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
110	110	Wipe	Lead	13.5	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
111	111	Wipe	Lead	20.2	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
112	112	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
113	113	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
114	114	Wipe	Lead	12.0	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
115	115	Wipe	Lead	17.6	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
116	116	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
117	117	Wipe	Lead	22.2	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
118	118	Wipe	Lead	11.2	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
119	119	Wipe	Lead	11.7	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

Quantem Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331
Project: McAlester Armory
Location: McAlester, OK
Project No.: 0076-LBP-041514

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
120	120	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
121	121	Wipe	Lead	9.97	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
122	122	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
123	123	Wipe	Lead	9.90	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
124	124	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
125	125	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
126	126	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
127	127	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
128	128	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
129	129	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
130	130	Wipe	Lead	15.3	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
131	131	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
132	132	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
133	133	Wipe	Lead	15.5	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
134	134	Wipe	Lead	15.9	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
135	135	Wipe	Lead	9.01	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
136	136	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 234316
Date Received: 04/16/14
Received By: Sherric Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331
Project: McAlester Armory
Location: McAlester, OK
Project No.: 0076-LBP-041514

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
137	137	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
138	138	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/17/14 14:30	W NIOSH 9100
139	139	Wipe	Lead	11.1	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
140	140	Wipe	Lead	16.9	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
141	141	Wipe	Lead	22.3	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
142	142	Wipe	Lead	11.5	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
143	143	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
144	144	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
145	145	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
146	146	Wipe	Lead	9.58	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
147	147	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
148	148	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
149	149	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
150	150	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
151	151	Wipe	Lead	11.8	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
152	152	Wipe	Lead	36.4	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
153	153	Wipe	Lead	22.8	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



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Environmental Chemistry Analysis Report

Quantem Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory

Location: McAlester, OK

Project No.: 0076-LBP-041514

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
154	154	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
155	155	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
156	156	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
157	157	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
158	158	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
159	159	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
160	160	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
161	161	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
162	152	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
163	163	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
164	164	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
165	165	Wipe	Lead	12.9	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
166	166	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
167	167	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
168	168	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
169	169	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100
170	170	Wipe	Lead	<9.00	9	ug/sq. Ft.	04/18/14 8:40	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified, EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified, EPA 7082 Analysis Modified



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Environmental Chemistry Analysis Report

QuantEM Set ID: 234316
Date Received: 04/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 4/18/2014

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159

Aect. No.: A331
Project: McAlester Armory
Location: McAlester, OK
Project No.: 0076-LBP-041514

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
------------	-----------	--------	-----------	---------	------------------	-------	--------------------	--------

Authorized Signature: _____

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuantEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 11985
Test: Lead

Date: 4/17/2014
Matrix: Wipe

Lab Number: 234316
Approved By: Benton Miller
Date Approved: 4/17/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.3	5.5
FCV	4.5	5.3	5.5
ICV	0.9	0.92	1.1
RLVS	0.144	0.19	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W4	0.000	5.040	5.355	106.2	5.340	106.0	0.3
MS-W3	0.000	5.020	5.424	108.1	5.614	111.8	3.4
MS-W1	0.000	4.990	5.649	113.2	5.818	116.6	3.0

Supplemental Report QAQC Results

QA ID: 11986
Test: Lead

Date: 4/16/2014
Matrix: Wipe

Lab Number: 234316
Approved By: Carter Cox
Date Approved: 4/16/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.1	5.5
FCV	4.5	5.4	5.5
ICV	0.9	0.95	1.1
RLVS	0.144	0.189	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.010	5.208	104.0	4.813	96.1	7.9
MS-W1	0.000	5.010	5.307	105.9	5.508	109.9	3.7

Supplemental Report QAQC Results

QA ID: 11990
Test: Lead

Date: 4/17/2014
Matrix: Wipe

Lab Number: 234316
Approved By: Benton Miller
Date Approved: 4/17/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.1	5.5
FCV	4.5	5.1	5.5
ICV	0.9	1.05	1.1
RLVS	0.144	0.216	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	4.990	5.300	106.2	5.407	108.4	2.0
MS-W2	0.000	5.000	4.991	99.8	5.569	111.4	10.9
MS-W1	0.000	5.010	4.760	95.0	5.483	109.4	14.1

Supplemental Report QAQC Results

QA ID: 11991
Test: Lead

Date: 4/18/2014
Matrix: Wipe

Lab Number: 234316
Approved By: Benton Miller
Date Approved: 4/18/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.2	5.5
FCV	4.5	5.1	5.5
ICV	0.9	1.07	1.1
RLVS	0.144	0.15	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W4	0.000	5.000	5.308	106.2	5.504	110.1	3.6
MS-W1	0.000	5.010	5.551	110.8	5.534	110.5	0.3

Authorized Signature: _____



Benton Miller, Analyst

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Contact Information Company: <u>Marshall Environmental</u> Contact: <u>Rachel Woods</u> Account #: _____ Phone: <u>616-7401</u> Cell Phone: <u>marshnewestcellular</u> E-mail: _____ Sampled By: <u>Rachel Woods</u> Date: <u>4/14/14</u>		Project Information Project Name: <u>McAister Armory</u> Project Location: <u>McAister, OK</u> Project ID: <u>0076-LBP-041514</u>	
Report Results <input checked="" type="checkbox"/> one box QuantEM Website <input checked="" type="checkbox"/> Other <input type="checkbox"/>		Lab No. <u>234316</u> Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>	

dustin.davidson@deg.ok.gov

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
<u>[Signature]</u>			<u>S.P. Hudson</u>	<u>4/16/14 2:00</u>

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (See Matrix Code Box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	Mg / l	µg / ft ²	µg / m ²	
1		1FR N. FLOOR		1ft2	Pb				X			A
2		↓										B
3		1FR S. FLOOR										C
4		↓										D
5		1FR N. WALL										E
6		↓										
7		1FR NE WALL										
8		↓										
9												
10												
11												
12												

TURNAROUND TIME	
Same Day	
24 - Hour	X
3 - Day	
5 - Day	

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Project Information

Company: Marshall Environmental Project Name: McArthur, OK Project Location: McArthur Army

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	mg / l	µg / ft ²	µg / m ³	mg / cm ²	
13	13	IFR SE WALL		1 ft ²	C	Pb X						A Soil
14	14	↓										B Paint Chips
15	15	IFR S. wall										C Surface / Dust Wipes
16	16	↓										D Bulk Miscellaneous
17	17	IFR SW WALL										E Air Cassette
18	18	↓										
19	19	IFR NW WALL										
20	20	↓										
21	21	IFR N. Ceiling										
22	22	↓										
23	23	IFR S. Ceiling										
24	24	↓										
25	25											
26	26											
27	27											
28	28											
29	29											
30	30											



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Accept _____
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Project Information

Company: Marshall Environmental Project Name: McAister Armory Project Location: McAister, OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³	
13	31	Side Room Floor		14ft x 2	C	Pb						A
14	32	↓										B
15	33	↓										C
16	34	Side Room N. Wall										D
17	35	↓										E
18	36	Side Room E. Wall										
19	37	↓										
20	38	Side Room S. Wall										
21	39	↓										
22	40	Side Room W. Wall										
23	41	↓										
24	42	Side Room Ceiling										
25	43	↓										
26	44											
27	45											
28	46											
29	47											
30	48											



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Project Information

Company: Marshall Environmental Project Name: McAlester Armory Project Location: McAlester, OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³	
13	49	Room 1 Floor		172	CX	Pb						A
14	50	↓										B
15	51	Room 2 Floor										C
16	52	↓										D
17	53	Room 3 Floor										E
18	54	↓										
19	55	Room 4 Floor										
20	56	↓										
21	57	Room 5 Floor										
22	58	↓										
23	59	Room 6 Floor										
24	60	↓										
25	61	Room 6 Floor										
26	62	↓										
27	63	Room 6 Floor										
28	64	↓										
29	65											
30	66											



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Lab No. _____

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Project Information

Company: _____ Project Name: _____ Project Location: _____

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³	
13	007	Rm 7 FLOOR				Pb						A
14	008	↓										B
15	009	Rm 8 FLOOR										C
16	010	↓										D
17	011	Rm 9 FLOOR										E
18	012	↓										
19	013	Rm 10 FLOOR										
20	014	↓										
21	015	Rm 11 FLOOR										
22	016	↓										
23	017	Rm 12 FLOOR										
24	018	↓										
25	019	Rm 13 FLOOR										
26	020	↓										
27	021	Rm 14 FLOOR										
28	022	↓										
29	023	Rm 15 FLOOR										
30	024	↓										



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Lab No. _____

Accept _____

Reject _____

Project Information

Company: _____ Project Name: _____ Project Locations: _____

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³	
13	85	Rm 13 Floor		14x2	C	Pb						A
14	86	↓										B
15	87	↓										C
16	88	Rm 14 Floor										D
17	89	↓										E
18	90	↓										
19	91	Rm 15 Floor										
20	92	↓										
21	93	↓										
22	94	Rm 16 Floor										
23	95	↓										
24	96	↓										
25	97	Rm 17 Floor										
26	98	↓										
27	99	↓										
28	100	Room 18 Floor										
29	101	↓										
30	102	↓										



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Lab No. _____

Accept _____ Reject _____

Project Information

Company: _____ Project Name: _____ Project Location: _____

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes	
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³		mg / cm ²
13	03	Rm 19-FLOOR		11ft2	C	Pb						X	A
14	04	↓											B
15	05	↓											C
16	06	Rm 20 FLOOR											D
17	07	↓											E
18	08	↓											
19	09	Rm 21 FLOOR											
20	10	↓											
21	11	↓											
22	12	Rm 22 FLOOR											
23	13	↓											
24	14	↓											
25	15	Rm 23 FLOOR											
26	16	↓											
27	17	↓											
28	18	Rm 24 FLOOR											
29	19	↓											
30	20	↓											



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For Lab Use Only
 Lab No. _____
 Accept _____
 Reject _____

Project Information		Project Name:		Project Location:		
No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	121	<input checked="" type="checkbox"/>		Rm 25 FLOOR	1 ft ²	ug/ft ² Pb
12	122	<input checked="" type="checkbox"/>		↓		
13	123	<input checked="" type="checkbox"/>		Rm 26 FLOOR		
14	124	<input checked="" type="checkbox"/>		↓		
15	125	<input checked="" type="checkbox"/>		Rm 27 FLOOR		
16	126	<input checked="" type="checkbox"/>		↓		
17	127	<input checked="" type="checkbox"/>		Rm 28 FLOOR		
18	128	<input checked="" type="checkbox"/>		↓		
19	129	<input checked="" type="checkbox"/>		Rm 28 FLOOR		
20	130	<input checked="" type="checkbox"/>		↓		
21	131	<input checked="" type="checkbox"/>		Rm 29 FLOOR		
22	132	<input checked="" type="checkbox"/>		↓		
23	133	<input checked="" type="checkbox"/>		Rm 30 FLOOR - W		
24	134	<input checked="" type="checkbox"/>		↓		
25	135	<input checked="" type="checkbox"/>		Rm 30 FLOOR - E		
26	136	<input checked="" type="checkbox"/>		↓		
27	137	<input checked="" type="checkbox"/>				
28	138	<input checked="" type="checkbox"/>				
29	139	<input checked="" type="checkbox"/>				
30	140	<input checked="" type="checkbox"/>				



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For Lab Use Only

Lab No. _____

Accept _____

Reject _____

Project Information		Project Name		Project Location		
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
31	141			Room 30 Floor E	1ft2	ug/ft2
32	142			Room 31 Floor		
33	143			Bldg 5 Floor		
34	144			Bldg 3 Floor		
35	145			Bldg 3 Rm 2 Floor		
36	146			Bldg 3 Rm 3 Floor		
37	147			Bldg 3 Rm 4 Floor		
38	148					
39	149					
40	150					
41	151					
42	152					
43	153					
44	154					
45	155					
46	156					
47	157					
48	158					
49	159					
50	160					



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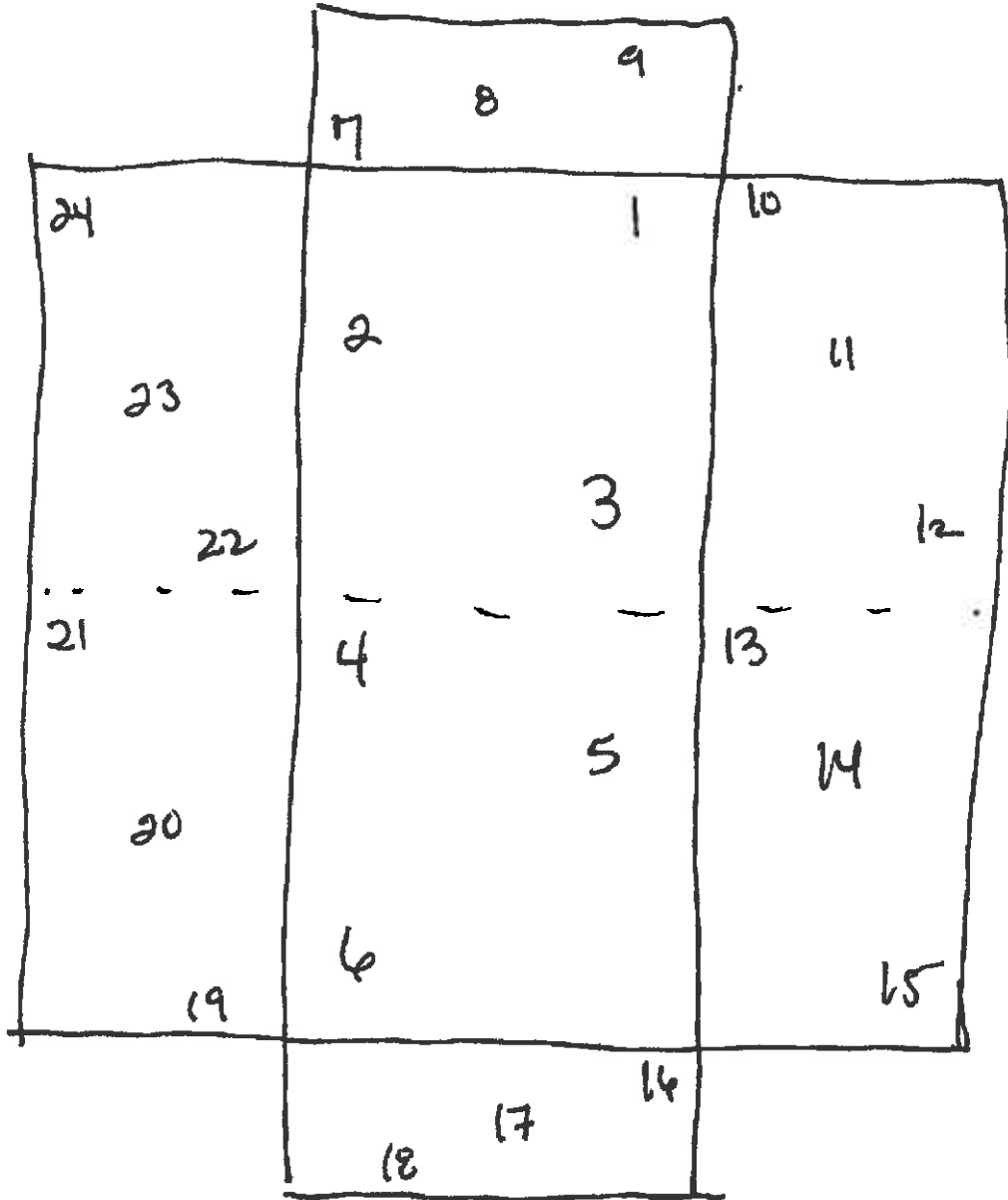
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Lab No. _____

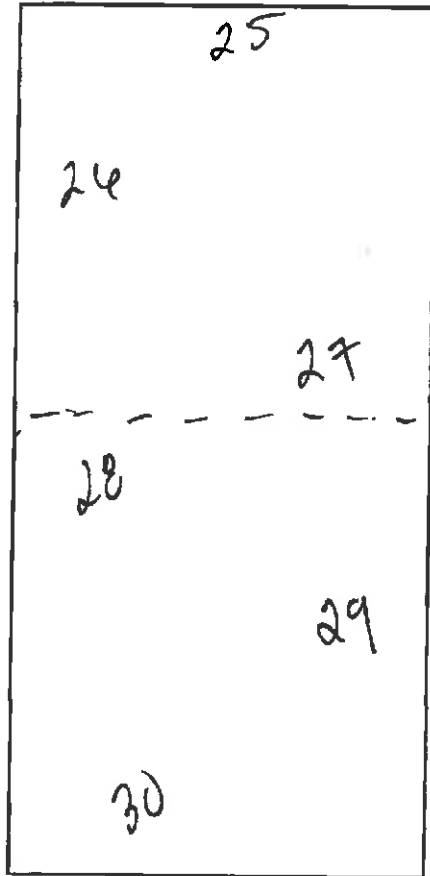
Accept Reject

Project Information		Project Name:		Project Location:	
No.	Sample ID (10 Characters Max)	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	161		Bldg 3 Rm 4 Floor	1ft ²	Pb
12	162				ug/ft ²
13	163		Bldg 3 Rm 5 Floor		
14	164				
15	165		Bldg 3 Rm 6 Floor		
16	166				
17	167		Bldg 3 Rm 7 Floor		
18	168				
19	169				
20	170				
21	171				
22					
23					
24					
25					
26					
27					
28					
29					
30					

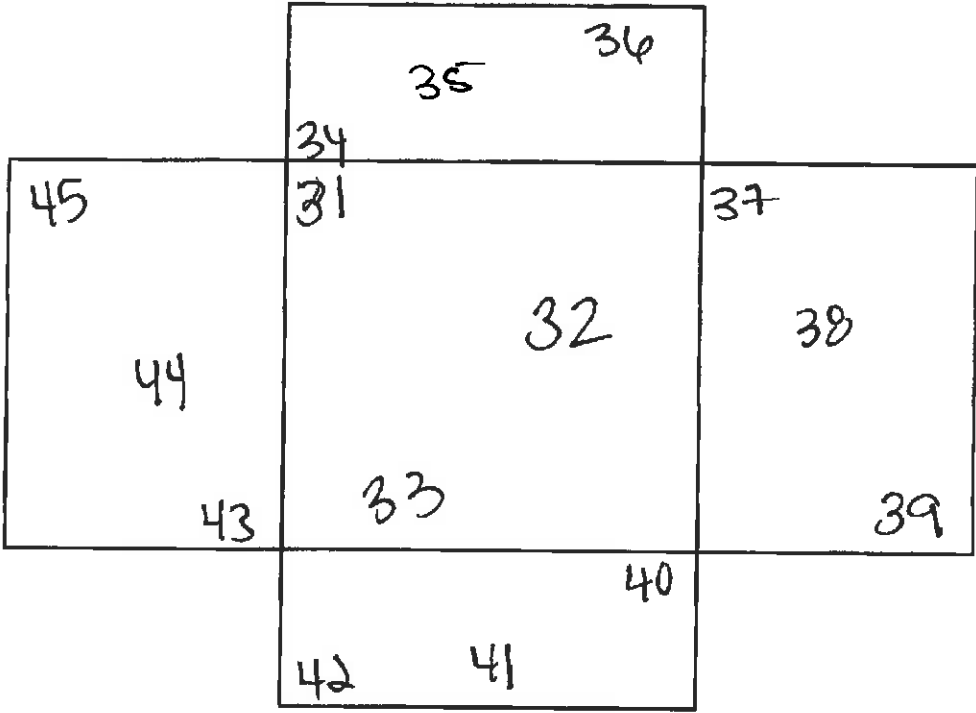
McAtester Armory
1 FR Floors: Walls



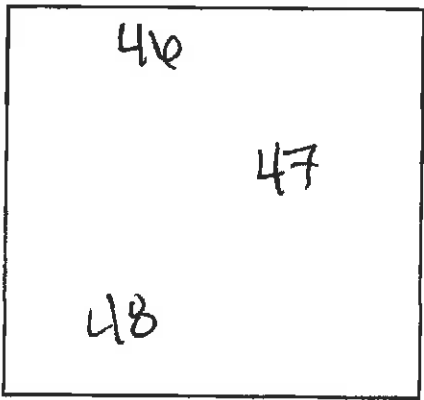
McAlester Armory
Firing Range Ceiling



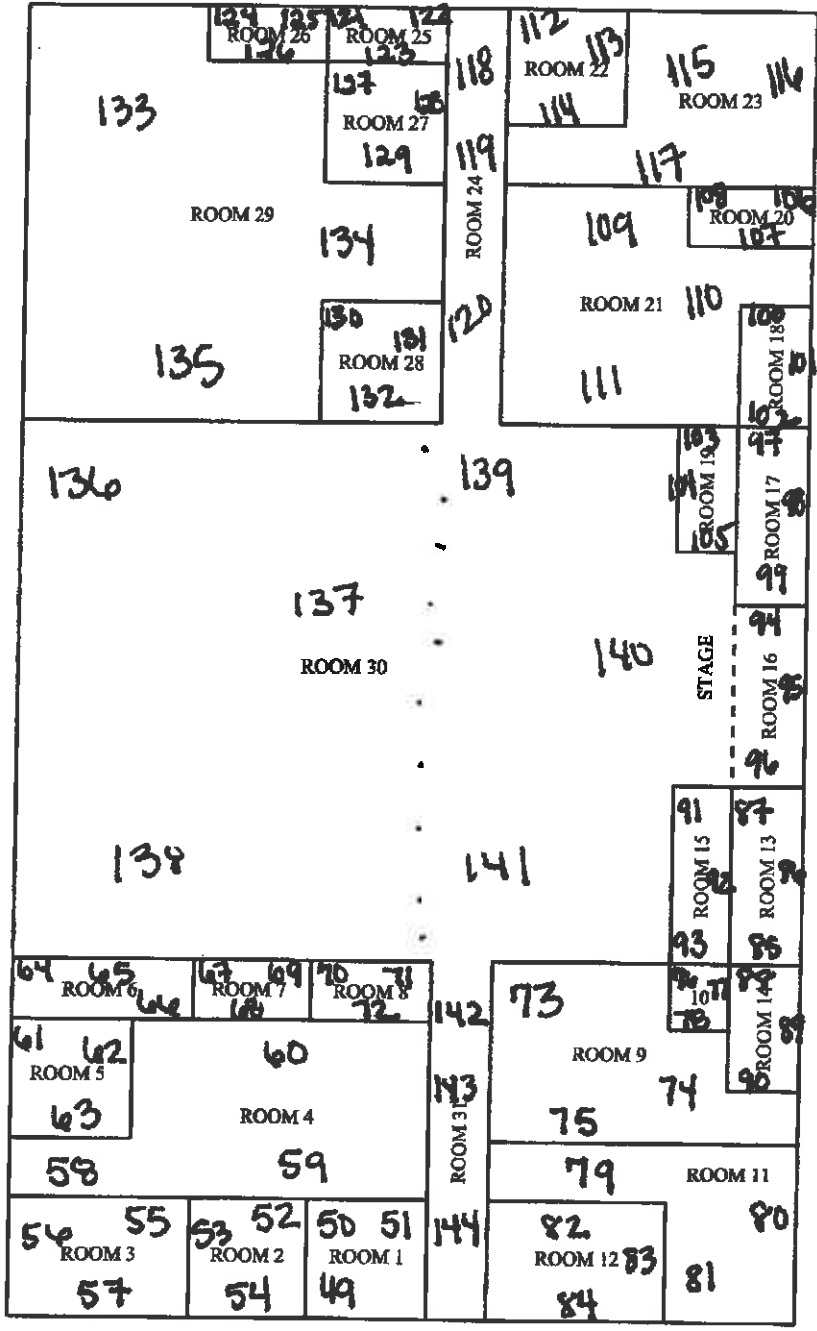
McAlester Armory
Firing Range Side Room Floor & Walls



McAlester Armory
Firing Range Side Room Ceiling

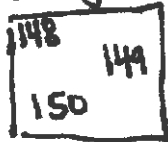


McAlester Armory

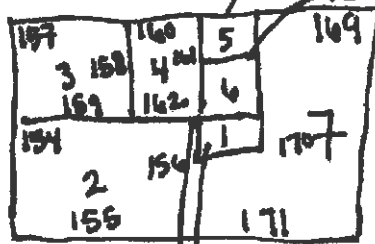


McAlester Armory Outbuildings

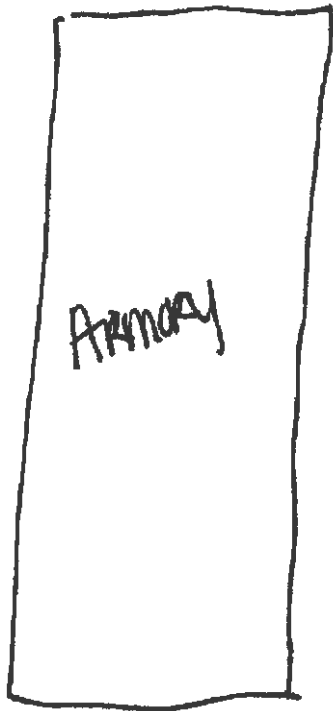
Bldg 2



Bldg 3



163-165
166-168



Bldg 5





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Environmental Chemistry Analysis Report

QuanTEM Set ID: 235000
Date Received: 05/02/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 5/5/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159
Acct. No.: A331
Project: McAlester Armory (5/1/14)
Location: McAlester, OK
Project No.: N/A

AIIIA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
009	9	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
010	10	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
011	11	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
012	12	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
013	13	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
014	14	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
015	15	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
016	16	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
017	17	Wipe	Lead	393	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



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Environmental Chemistry Analysis Report

Quantem Set ID: 235000
Date Received: 05/02/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 5/5/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory (5/1/14)

Location: McAlester, OK

Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	16.2	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
019	19	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
020	20	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
021	21	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
022	22	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
023	23	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
024	24	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
025	25	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
026	26	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
027	27	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
028	28	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
029	29	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
030	30	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
031	31	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
032	32	Wipe	Lead	75.8	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
033	33	Wipe	Lead	19.5	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
034	34	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



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Environmental Chemistry Analysis Report

Quantem Set ID: 235000
Date Received: 05/02/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 5/5/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory (5/1/14)

Location: McAlester, OK

Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	35	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
036	36	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
037	37	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
038	38	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
039	39	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
040	40	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
041	41	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
042	42	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
043	43	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
044	44	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
045	45	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
046	46	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
047	47	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
048	48	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
049	49	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/02/14 16:30	W NIOSH 9100
050	50	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
051	51	Wipe	Lead	16.9	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



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Environmental Chemistry Analysis Report

QuanTEM Set ID: 235000
Date Received: 05/02/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 5/5/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory (5/1/14)

Location: McAlester, OK

Project No.: N/A

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
052	52	Wipe	Lead	9.78	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
053	53	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
054	54	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
055	55	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
056	56	Wipe	Lead	33.9	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
057	57	Wipe	Lead	42.0	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
058	58	Wipe	Lead	84.7	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
059	59	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
060	60	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
061	61	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
062	62	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
063	63	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
064	64	Wipe	Lead	74.3	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
065	65	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
066	66	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
067	67	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
068	68	Wipe	Lead	200	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuantEM Set ID: 235000
Date Received: 05/02/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 5/5/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory (5/1/14)

Location: McAlester, OK

Project No.: N/A

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
069	69	Wipe	Lead	350	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
070	70	Wipe	Lead	238	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
071	71	Wipe	Lead	11.3	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
072	72	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
073	73	Wipe	Lead	11.5	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
074	74	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
075	75	Wipe	Lead	11.3	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
076	76	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
077	77	Wipe	Lead	22.5	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
078	78	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
079	79	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
080	80	Wipe	Lead	38.9	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
081	81	Wipe	Lead	21.1	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
082	82	Wipe	Lead	56.0	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
083	83	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
084	84	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
085	85	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Environmental Chemistry Analysis Report

Quantem Set ID: 235000
Date Received: 05/02/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 5/5/2014

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory (5/1/14)

Location: McAlester, OK

Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
086	86	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
087	87	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
088	88	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
089	89	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
090	90	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
091	91	Wipe	Lead	18.5	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
092	92	Wipe	Lead	11.3	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
093	93	Wipe	Lead	23.7	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100
094	94	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/05/14 9:15	W NIOSH 9100

Authorized Signature: 
 Carter Cox, Lab Tech

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 12032
Test: Lead

Date: 5/2/2014
Matrix: Wipe

Lab Number: 235000
Approved By: Carter Cox
Date Approved: 5/2/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1.04	1.1
RLVS	0.144	0.186	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	5.040	4.929	97.8	5.074	100.7	2.9
MS-W2	0.000	4.970	5.176	104.2	5.134	103.3	0.8
MS-W1	0.000	5.010	5.419	108.2	4.874	97.3	10.6

Supplemental Report QAQC Results

QA ID: 12033
Test: Lead

Date: 5/5/2014
Matrix: Wipe

Lab Number: 235000
Approved By: Carter Cox
Date Approved: 5/5/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.9	5.5
FCV	4.5	5	5.5
ICV	0.9	1.01	1.1
RLVS	0.144	0.184	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W4	0.000	5.000	5.009	100.2	4.987	99.7	0.4

Authorized Signature: _____

Carter Cox

Carter Cox, Lab Tech



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LEAD CHAIN OF CUSTODY

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For Lab Use Only
 Lab No. 235070
 Accept Reject
 Report Results (in one box)
 QuantEM Website
 Other

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Contact Information		Project Information	
Company: <u>Marshall Environmental</u>	Phone: <u>616-040</u>	Project Name: <u>McAfee Army (5/1/14)</u>	
Contact: <u>Rachel Woods</u>	Cell Phone: <u>35-4305</u>	Project Location: <u>McAfee, OK</u>	
Account #:	E-mail: <u>mwoods@marshall.net</u>	Project ID:	
Sampled By: <u>Rachel Woods</u>	Date: <u>5/1/14</u>		

dustin-dawson@dep.ok.gov

RELINQUISHED BY <u>DUSTON</u>	DATE & TIME <u>5/2/14</u>	VIA	RECEIVED BY <u>[Signature]</u>	DATE & TIME <u>5-2-14 10:00</u>
----------------------------------	------------------------------	-----	-----------------------------------	------------------------------------

REQUESTED SERVICES (Please check the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (See matrix code box)	Analysis	Units (check ONE box only)					Sample Matrix Codes
							PPM	mg/l	µg/ft²	µg/m³	mg/cm²	
1		IFR NE FLOOR		172	C	Pb			X			A
2		↓										B
3		IFR S FLOOR										C
4		↓										D
5												E
6		IFR N. WALL										
7		↓										
8												
9		IFR NE WALL										
10		↓										
11												
12		↓										

TURNAROUND TIME	
Same Day	<input type="checkbox"/>
24 - Hour	<input checked="" type="checkbox"/>
3 - Day	<input type="checkbox"/>
5 - Day	<input type="checkbox"/>



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Page 2 of 6

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 Lab No. 235080
 Accept Reject

Project Information
 Company: Marshall Environmental Project Name: McAfee Army Project Location: McAfee

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code Box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg / l	µg / ft ²	µg / m ²	
13	13	1 IFR SE Wall		1 ft ²	C	Pb						A
14	14	↓			X							B
15	15	1 IFR S. Wall										C
16	16	↓										D
17	17	1 IFR SW Wall										E
18	18	↓										
19	19	1 IFR SW Wall										
20	20	↓										
21	21	1 IFR NW Wall										
22	22	↓										
23	23	1 IFR NW Wall										
24	24	↓										
25	25	1 IFR N ceiling										
26	26	↓										
27	27	1 IFR S. ceiling										
28	28	↓										
29	29											
30	30											

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Page 2 of 4

For Lab Use Only
 Lab No. 23500
 Accept Reject

Project Information
 Company: Marshall Environmental Project Name: McAuley Army Project Location: McAuley OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³	
13	31	Side Room Floor		11x2	C	Pb					X	A
14	32	↓										B
15	33	Side Room Ceiling										C
16	34	↓										D
17	35	Side Room E. Wall										E
18	36	↓										
19	37	Side Room S. Wall										
20	38	↓										
21	39	Side Room W. Wall										
22	40	↓										
23	41	Side Room N. Wall										
24	42	↓										
25	43	Side Room E. Wall										
26	44	↓										
27	45	Side Room S. Wall										
28	46	↓										
29	47	Side Room W. Wall										
30	48	↓										



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Page 2 of 4

For Lab Use Only

Lab No. 235000

Accept Reject

Project Information
 Company: McAulestie Armory Project Name: McAulestie, OK Project Location: McAulestie, OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes
							PPM	mg/l	µg/ft ²	µg/m ³	mg/cm ²	
13	49	Room 49 Floor		1ft2	C	Pb X			X			A Soil
14	50	Room 11 Floor										B Paint Chips
15	51	↓										C Surface / Dust Wipes
16	52	Room 17 Floor										D Bulk Miscellaneous
17	53	Room 19 Floor										E Air Cassette
18	54	↓										
19	55	Bldg 6 Floor										
20	56	↓										
21	57	Bldg 7 - Rm 12 Floor										
22	58	↓										
23	59	Bldg 7 Rm 11 Floor										
24	60	↓										
25	61	Bldg 7 Rm 1 Floor										
26	62	↓										
27	63	Bldg 7 Rm 1 Floor										
28	64	↓										
29	65	Bldg 7 Rm 1 Floor										
30	66	↓										



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Page 2 of 4

For Lab Use Only
 Lab No. 235020
 Accept Reject

Project Information
 Company: McAuley Environmental Project Name: McAuley Pharmacy Project Location: McAuley, OK

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code BQ)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes							
							PPM	Wt %	Mg / l	Hg / ft ²	Hg / m ³	Mg / cm ²	A	B	C	D	E		
13	067	Bldg 7 Rm 1 Floor		11x2	C	Pb													
14	068	Bldg 7 Rm 2 Floor																	
15	069																		
16	070																		
17	071	Bldg 7 Room 3 Floor																	
18	072																		
19	073																		
20	074	Bldg 7 Room 9 Floor																	
21	075																		
22	076																		
23	077	Bldg 7 Room 4 Floor																	
24	078																		
25	079																		
26	080	Bldg 7 Room 5 Floor																	
27	081																		
28	082																		
29	083	Bldg 7 Room 6 Floor																	
30	084																		



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Contact Information		Project Information	
Company: <u>Marshall Environmental</u>	Phone: _____	Project Name: <u>McAuder Rm's</u>	Report Results: <input checked="" type="checkbox"/> (one box)
Contact: _____	Cell Phone: _____	Project Location: <u>Northlake, Ok</u>	QuantEM Website
Account #: _____	E-mail: _____	Project ID: _____	Other: _____

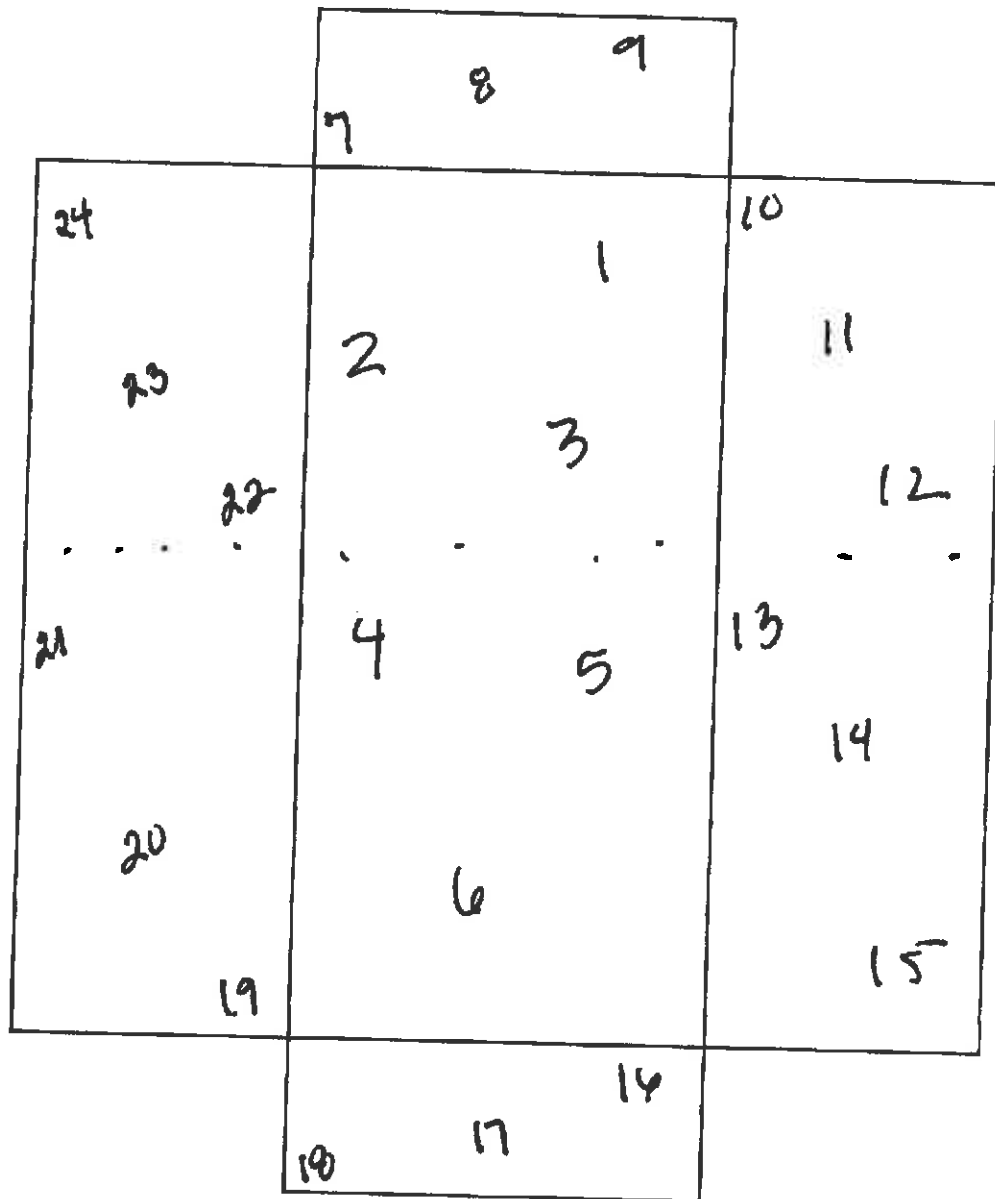
Sampled By: _____	Name: _____	Date: _____
RELINQUISHED BY _____	DATE & TIME _____	VIA _____
RECEIVED BY _____	DATE & TIME _____	

REQUESTED SERVICES: (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (See matrix code box)	Analysis					Sample Matrix Codes						
						PPM	mg/l	µg/ft ²	µg/m ³	mg/cm ²		A	B	C	D	E	
1	000009	Bldg 7 Rm 10 Floor		172	C												
2	000009	Bldg 7 Rm 7 Floor			X												
3	000009	Bldg 7 Rm 8 Floor															
4	000009	Bldg 7 Rm 10 Floor															
5	000009	Bldg 7 Rm 10 Floor															
6	000009	Bldg 7 Rm 10 Floor															
7	000009	Bldg 7 Rm 10 Floor															
8	000009	Bldg 7 Rm 10 Floor															
9	000009	Bldg 7 Rm 10 Floor															
10	000009	Bldg 7 Rm 10 Floor															
11																	
12																	

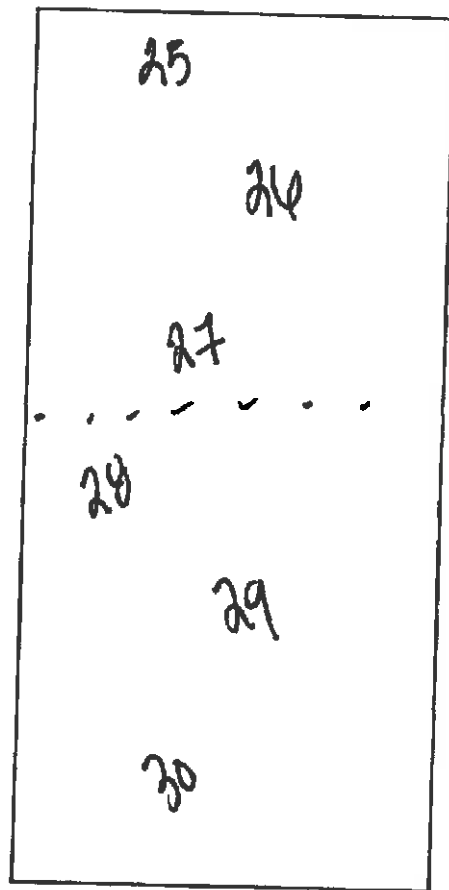
SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

McAlester Armory
Firing Range Floor & Walls



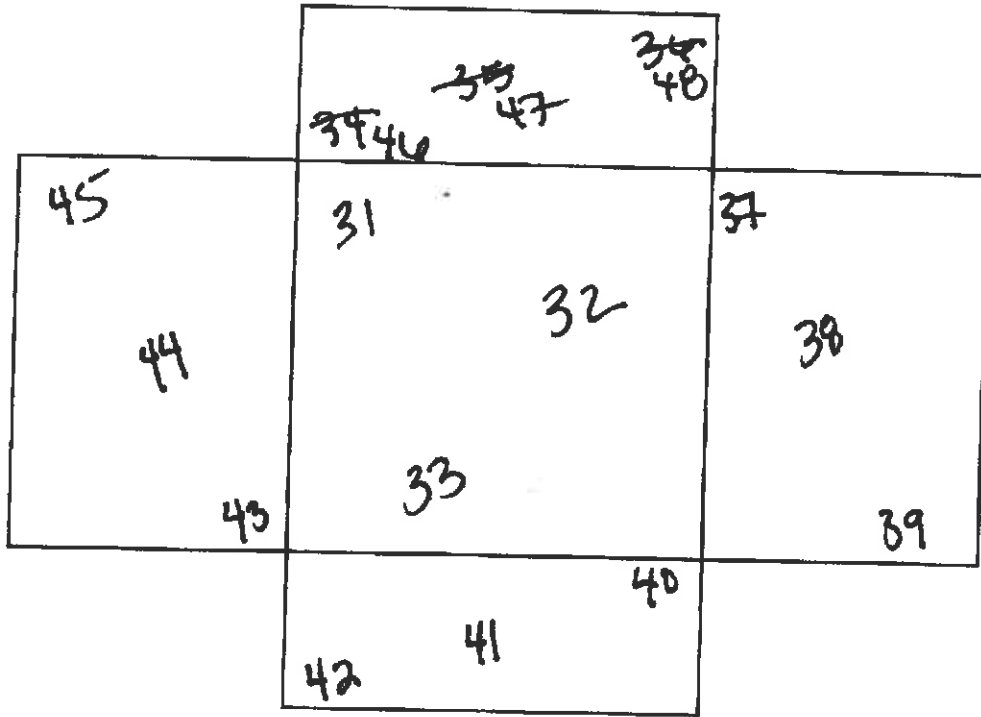
235000

McAlester Armory
Firing Range Ceiling

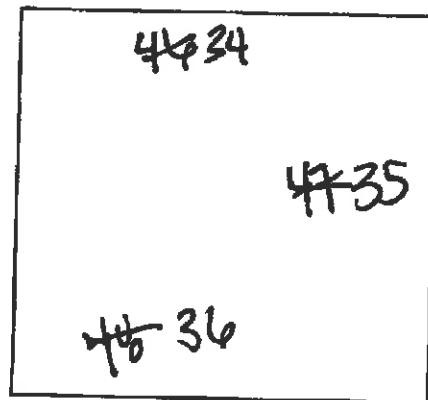


235000

McAlester Armory
Firing Range Side Room Floor & Walls

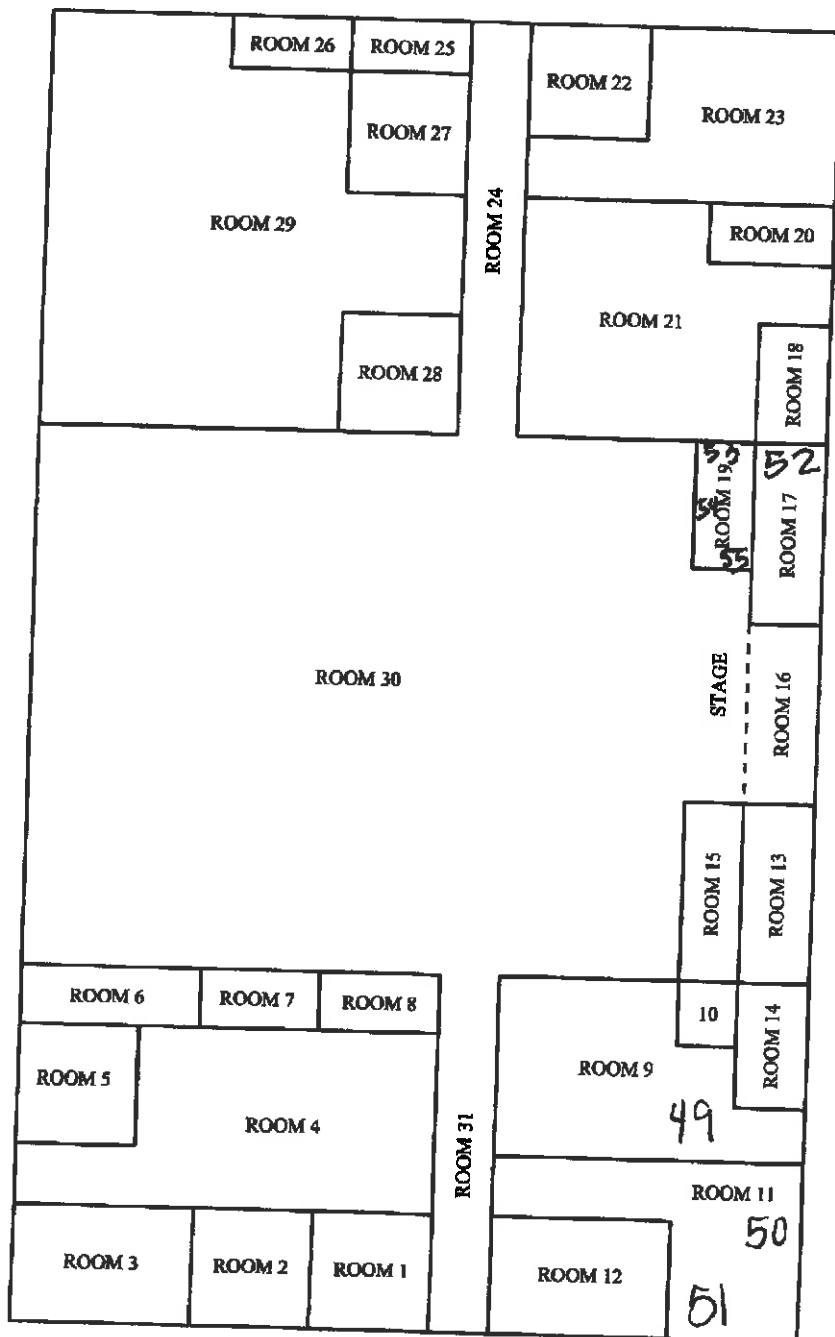


McAlester Armory
Firing Range Side Room Ceiling



McAlester Armory

235000

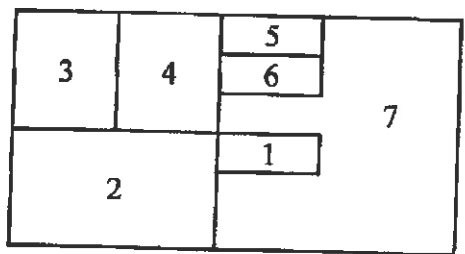


235000

McAlester Armory Firing Range Floor & Walls

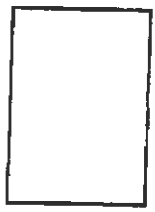
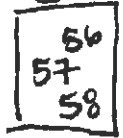


Building 2

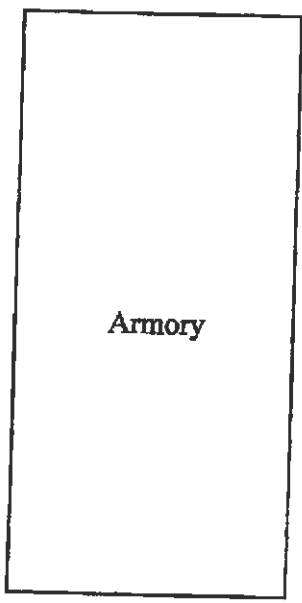


Building 3

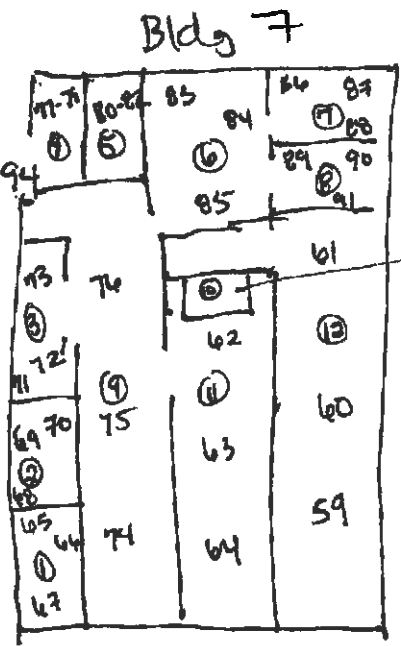
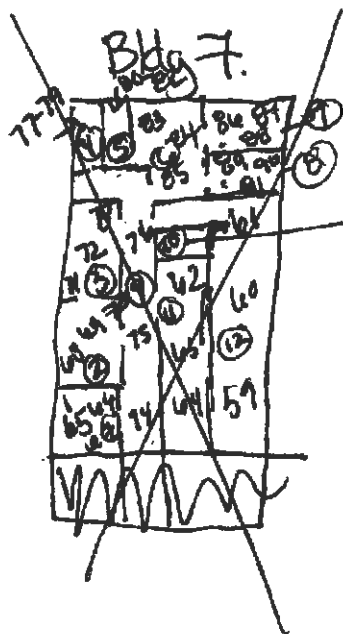
Bdg 6



Building 5



Armory



92-94

92-94



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Environmental Chemistry Analysis Report

QuanTEM Set ID: 235564
Date Received: 05/16/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 5/19/2014

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159

Acct. No.: A331

Project: McAlester Armory

Location: McAlester, OK

Project No.: N/A

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	28.6	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
007	7	Wipe	Lead	17.0	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
009	9	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100
010	10	Wipe	Lead	<9.00	9	ug/sq. Ft.	05/19/14 15:15	W NIOSH 9100

Authorized Signature: 

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 12075

Test: Lead

Date: 5/19/2014

Matrix: Wipe

Lab Number: 235564

Approved By: Benton Miller

Date Approved: 5/19/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.8	5.5
FCV	4.5	4.9	5.5
ICV	0.9	1	1.1
RLVS	0.144	0.188	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	4.970	4.669	93.9	4.643	93.4	0.6
MS-W1	0.000	5.030	5.271	104.8	5.227	103.9	0.8

Authorized Signature: _____


Benton Miller, Analyst

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Contact Information: Company: Marshall Environmental Contact: Rachel Woods Account #: Name: Rachel Woods Phone: 661-030 Cell Phone: E-mail: rwoodsm@marshall.net		Project Information: Project Name: McALESTER ARMORY Project Location: McALESTER, OK Project ID:	
--	--	---	--

For Lab Use Only	Lab No. 235564	Accept	Reject
Report Results (one box)	QuantEM Website	X	Other

custn.dawson@edg.ok.gov

Sampled By: <i>[Signature]</i> Date & Time: 5/10/14 14:30 RECEIVED BY: <i>[Signature]</i> Date & Time: 5-16-14 2:36	Project ID: 5114 VIA: RECEIVED BY: <i>[Signature]</i> Date & Time: 5-16-14 2:36
--	--

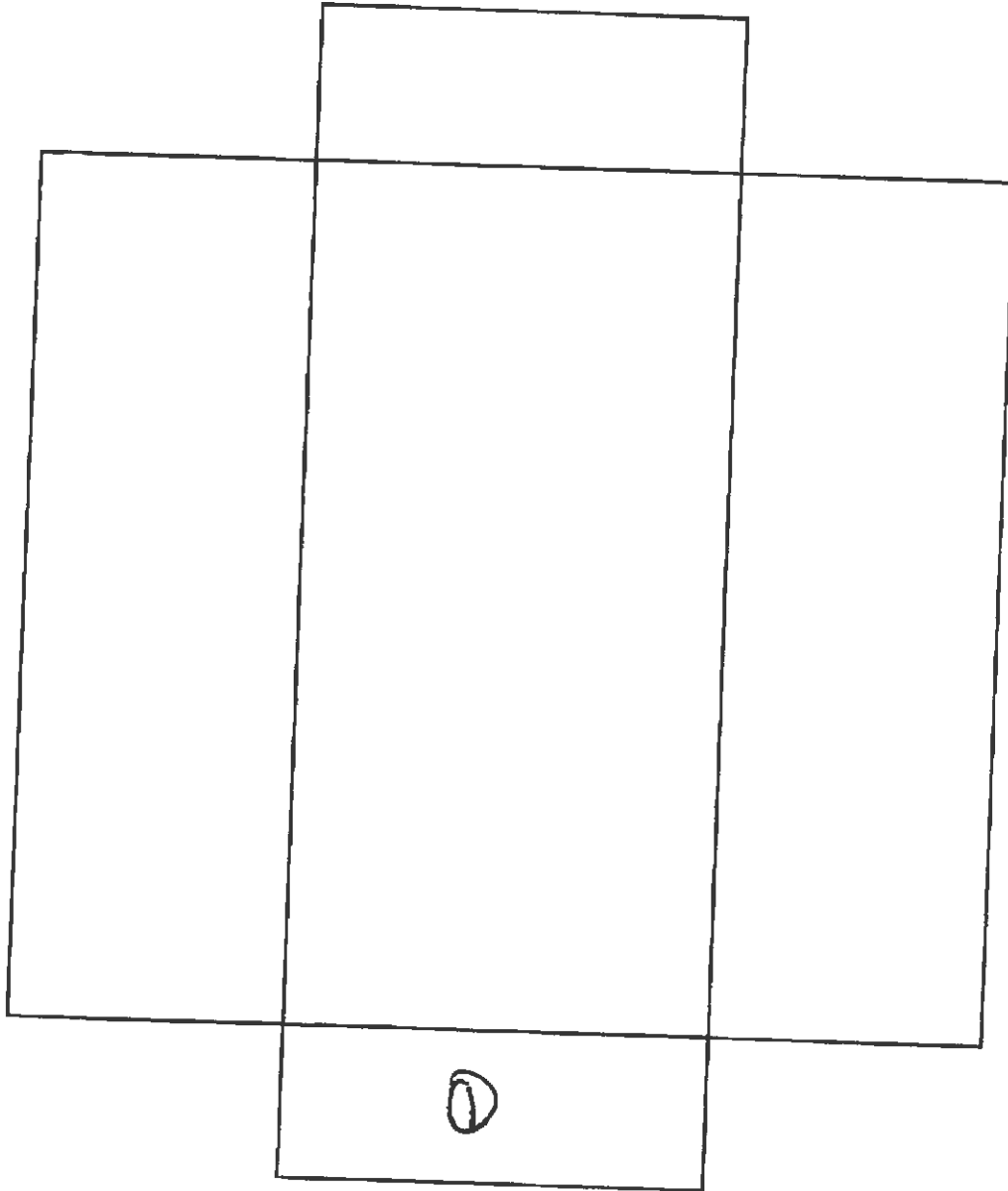
REQUESTED SERVICES. (Please check the Appropriate Boxes)

No.	Sample ID (10 Character's Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (ONE box only)					Sample Matrix Codes	
							PPM	Wt %	mg / l	µg / ft²	µg / m²		mg / cm²
1	1	1FR - South Wall											
2	2	Side Room Floor											
3	3	Bldg 1 N. Floor											
4	4	Bldg 1 E. Floor											
5	5	Bldg 1 S. Floor											
6	6	Bldg 7 Rm 11 Floor											
7	7	Bldg 7 Rm 2 NE Floor											
8	8	Bldg 7 Rm 2 W. Floor											
9	9	Bldg 7 Rm 2 S. Floor											
10	10	Bldg 7 Rm 5 S. Floor											
11													
12													

TURNAROUND TIME	
Same Day	<input checked="" type="checkbox"/>
24 - Hour	<input type="checkbox"/>
3 - Day	<input type="checkbox"/>
5 - Day	<input type="checkbox"/>

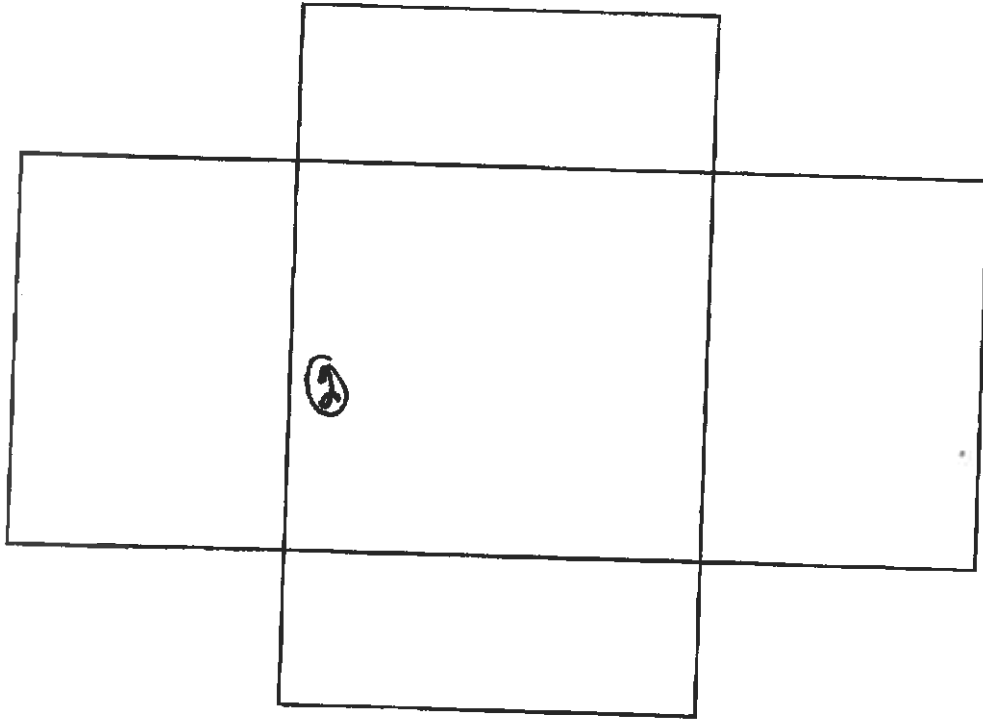
Q#235564

McAlester Armory
Firing Range Floor & Walls

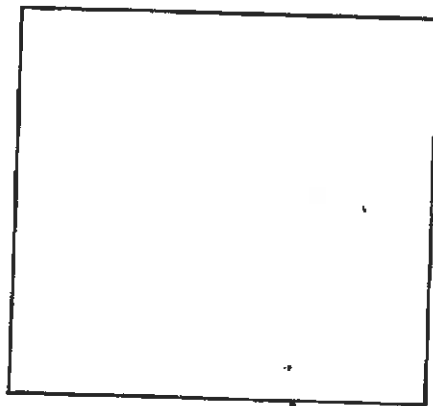


Q#235564

**McAlester Armory
Firing Range Side Room Floor & Walls**



**McAlester Armory
Firing Range Side Room Ceiling**



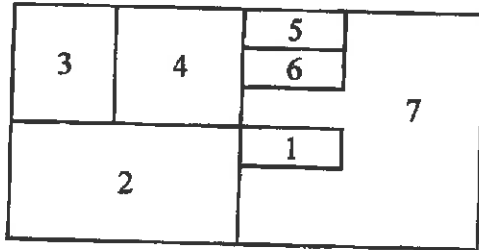
N
↑

Q#235564

McAlester Armory
Firing Range Floor & Walls



Building 2

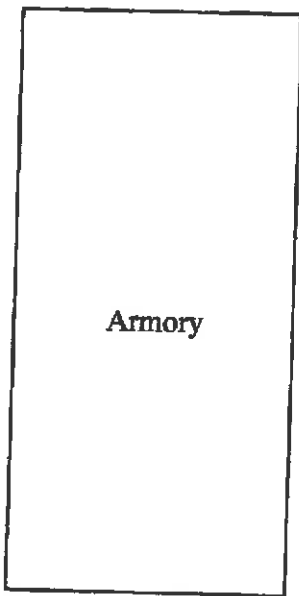


Building 3

Bldg 6

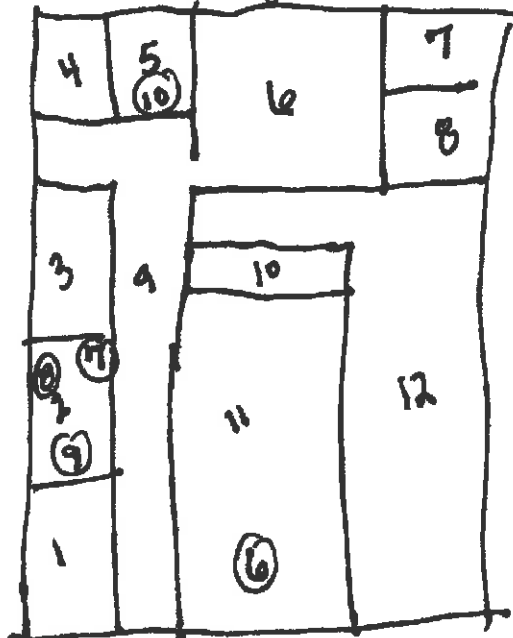


Building 5

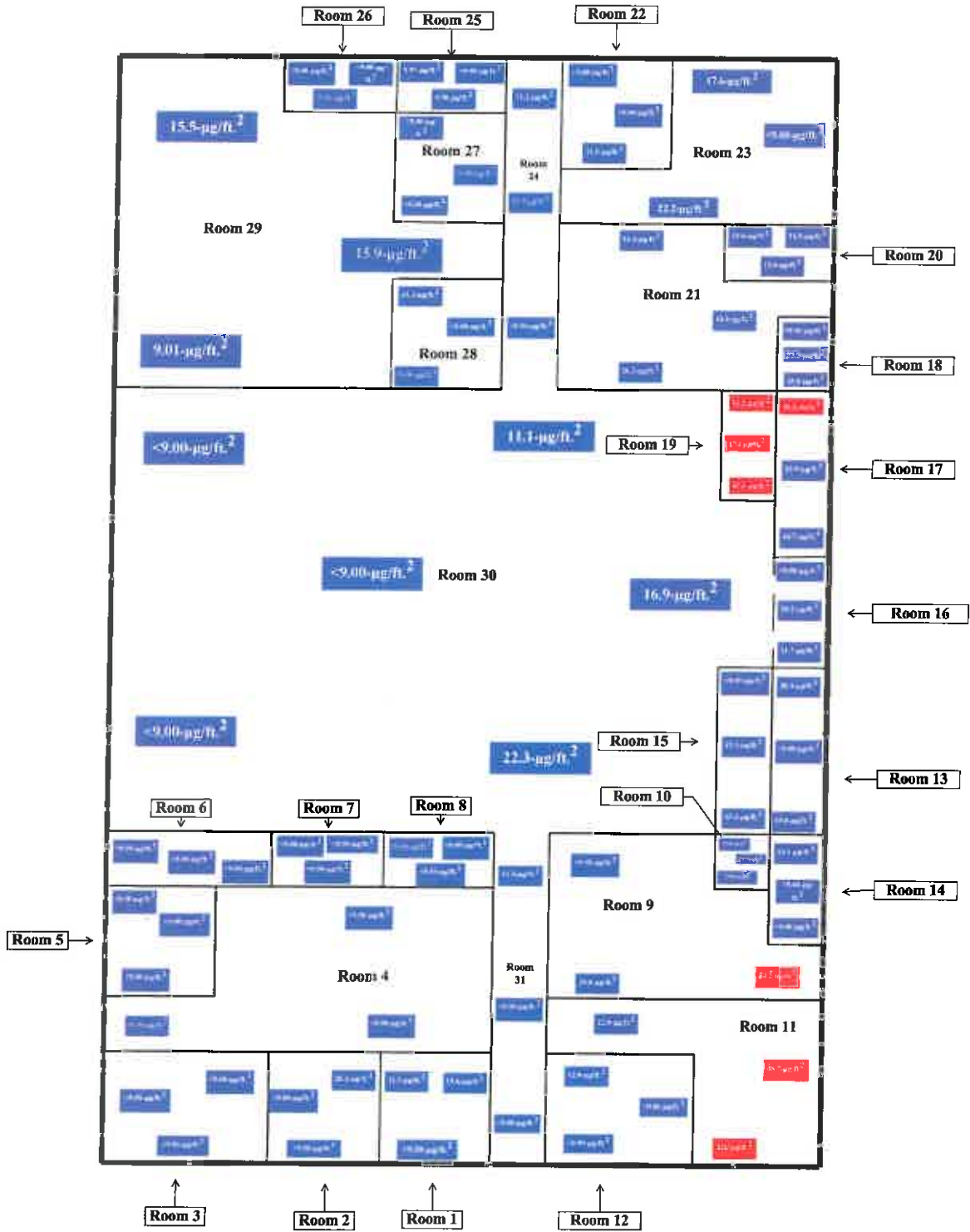


Armory

Bldg 7



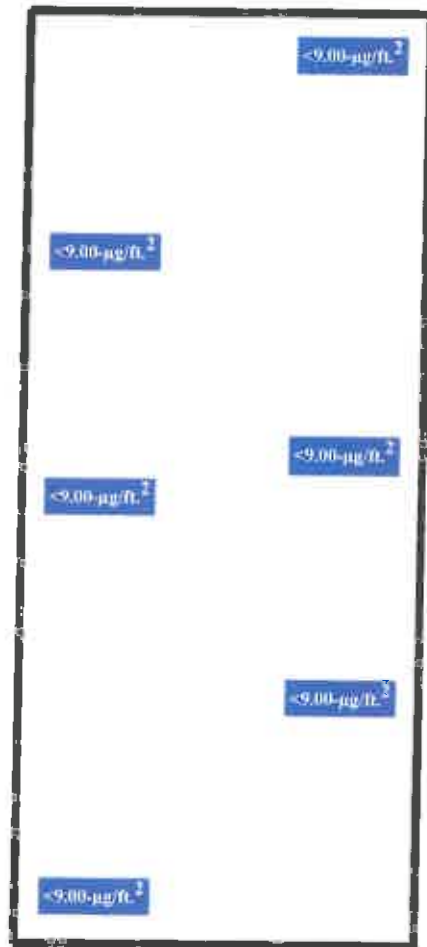
McAlester Armory
Rooms 1-30
04-14-14



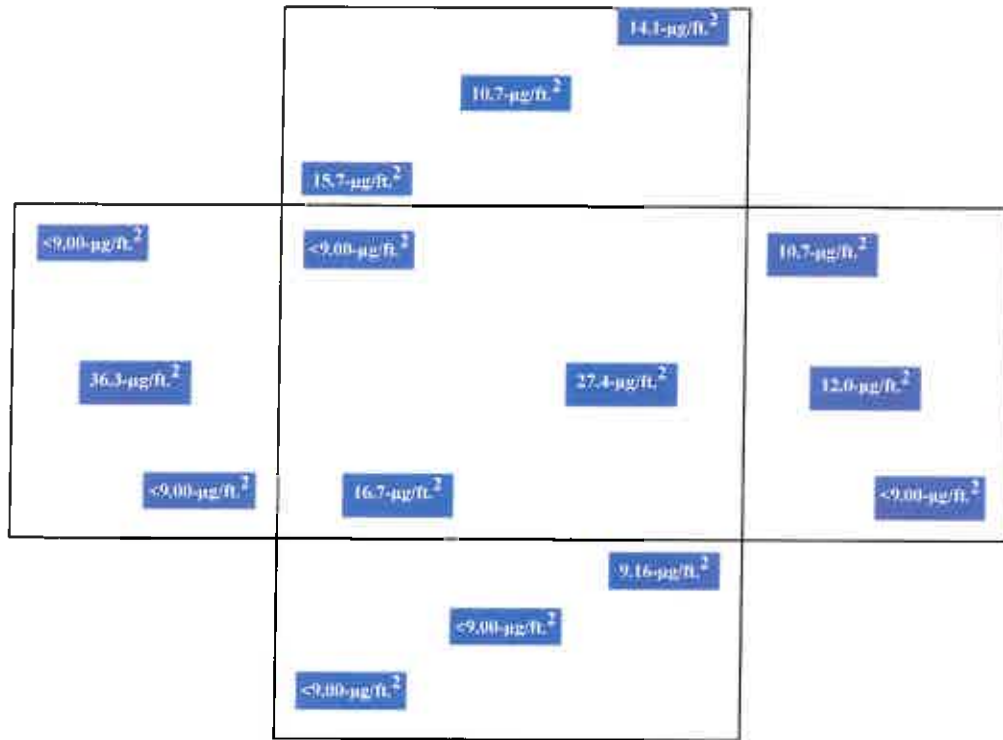
McAlester Armory
Firing Range Floor & Walls
04-14-14



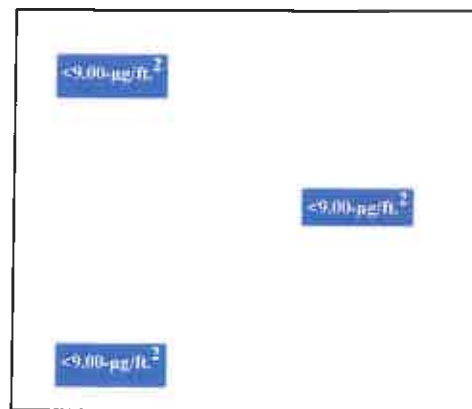
McAlester Armory
Firing Range Ceiling
04-14-14



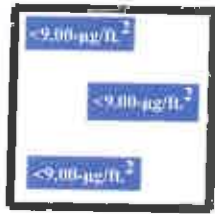
McAlester Armory
Firing Range Side Room
Floor & Walls
04-14-14



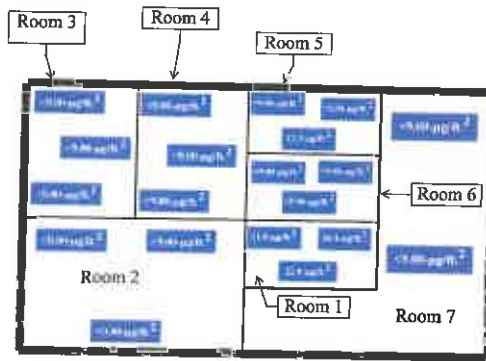
Side Room Ceiling



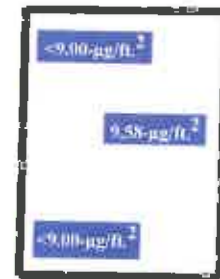
McAlester Armory Bldgs 2, 3, & 5 04-14-14



Building 2



Building 3

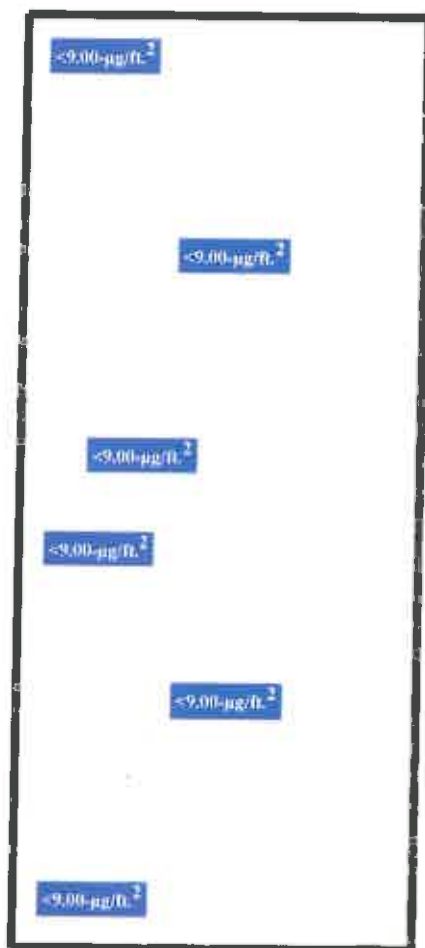


Building 5

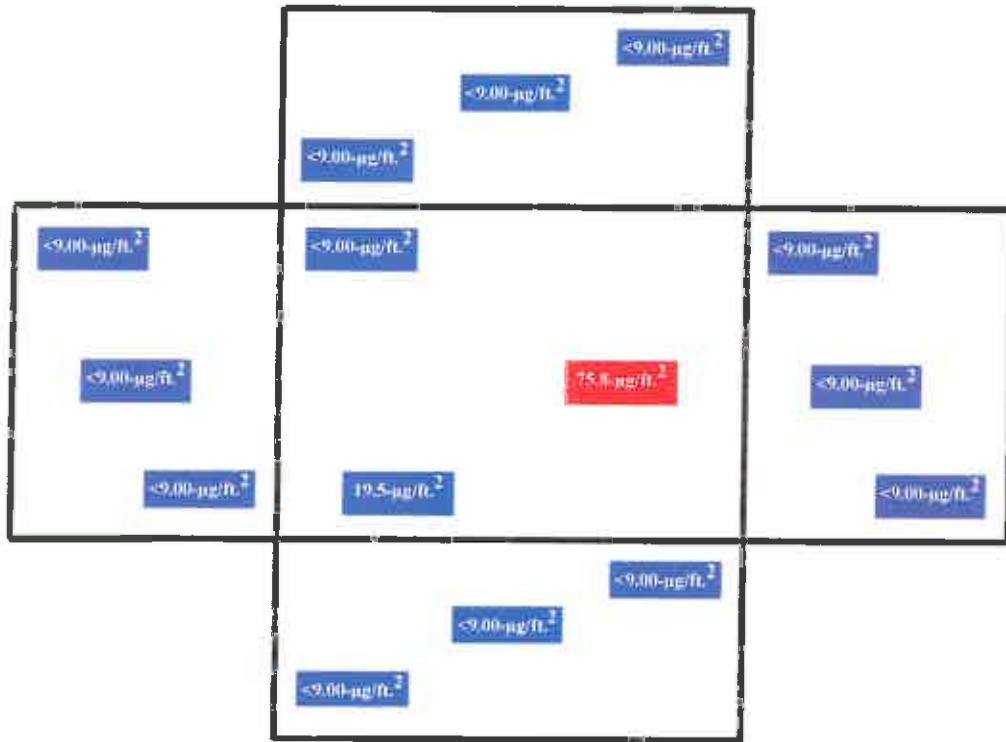
McAlester Armory
Firing Range Floor & Walls
05-01-14



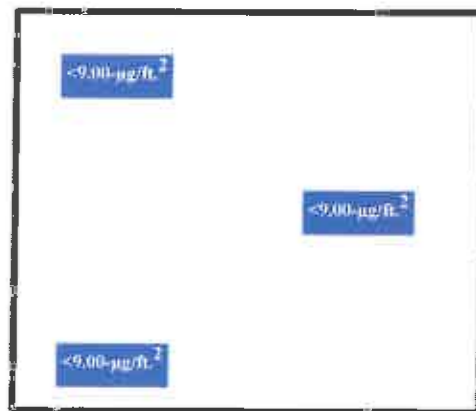
McAlester Armory
Firing Range Ceiling
05-01-14



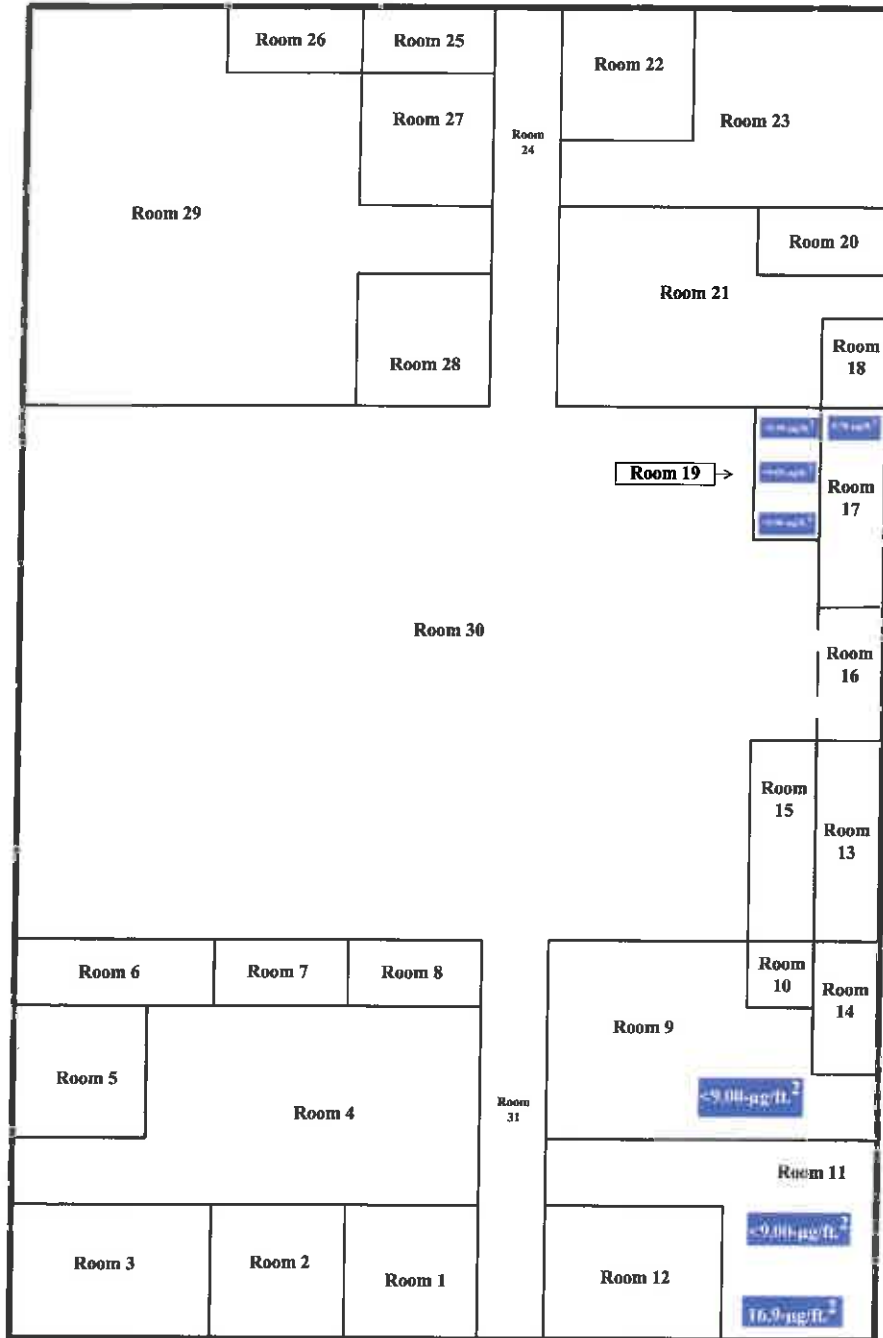
McAlester Armory
Firing Range Side Room
Floor & Walls
05-01-14



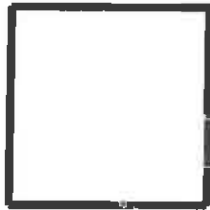
Side Room Ceiling



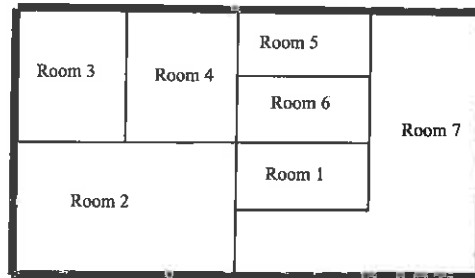
McAlester Armory
Rooms 1-30
05-01-14



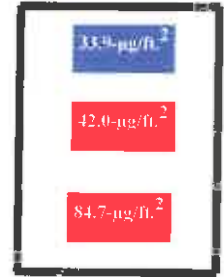
McAlester Armory Bldgs 2, 3, 5, 6 & 7 (05-01-14)



Building 2



Building 3

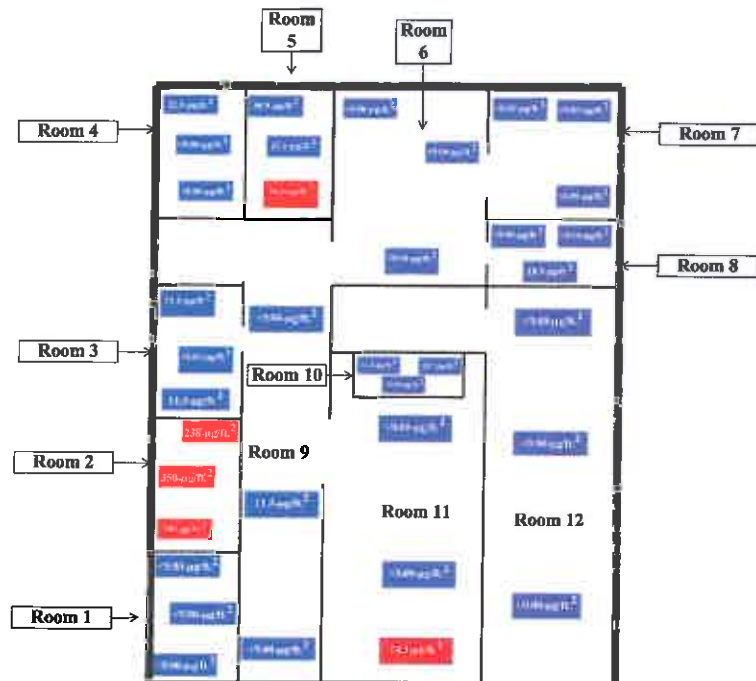


Building 6

Armory

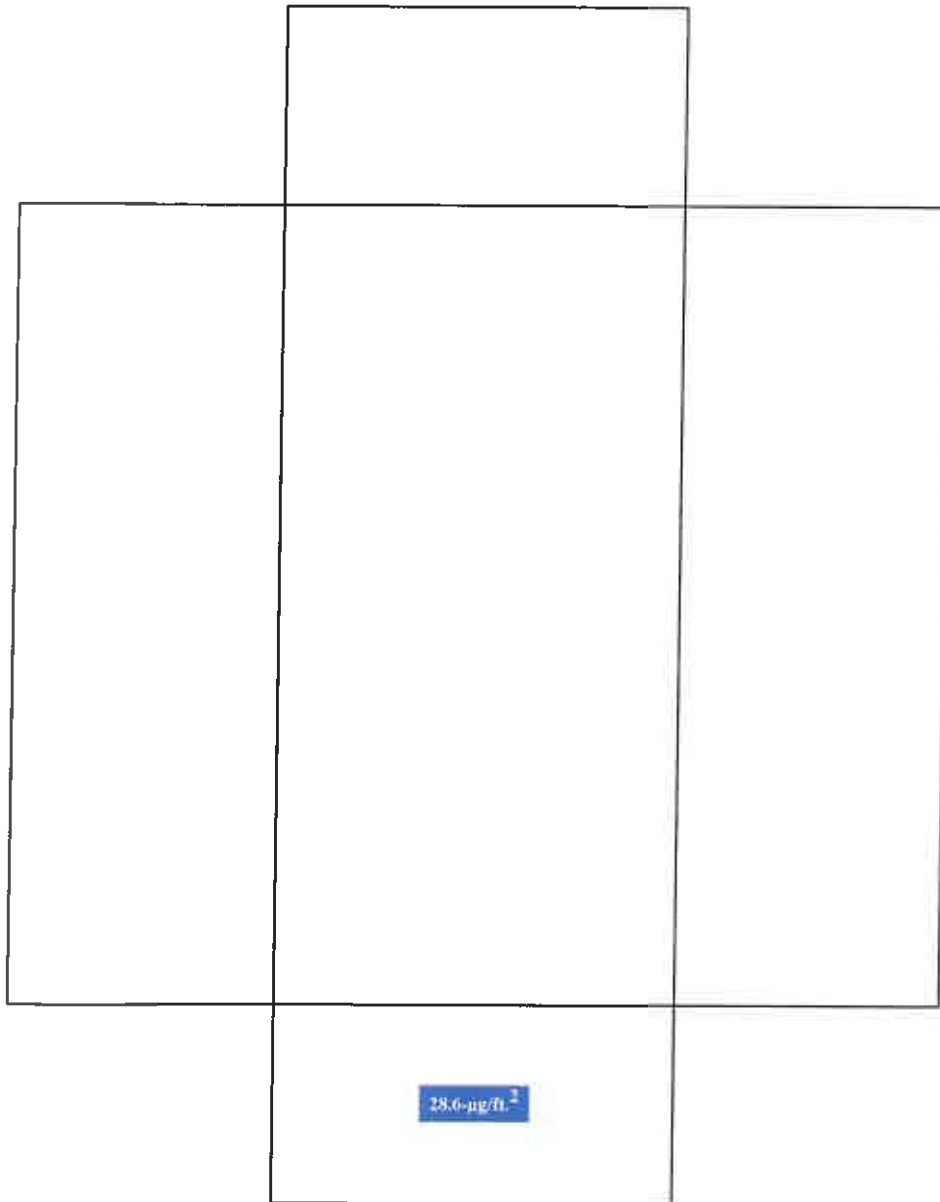


Building 5

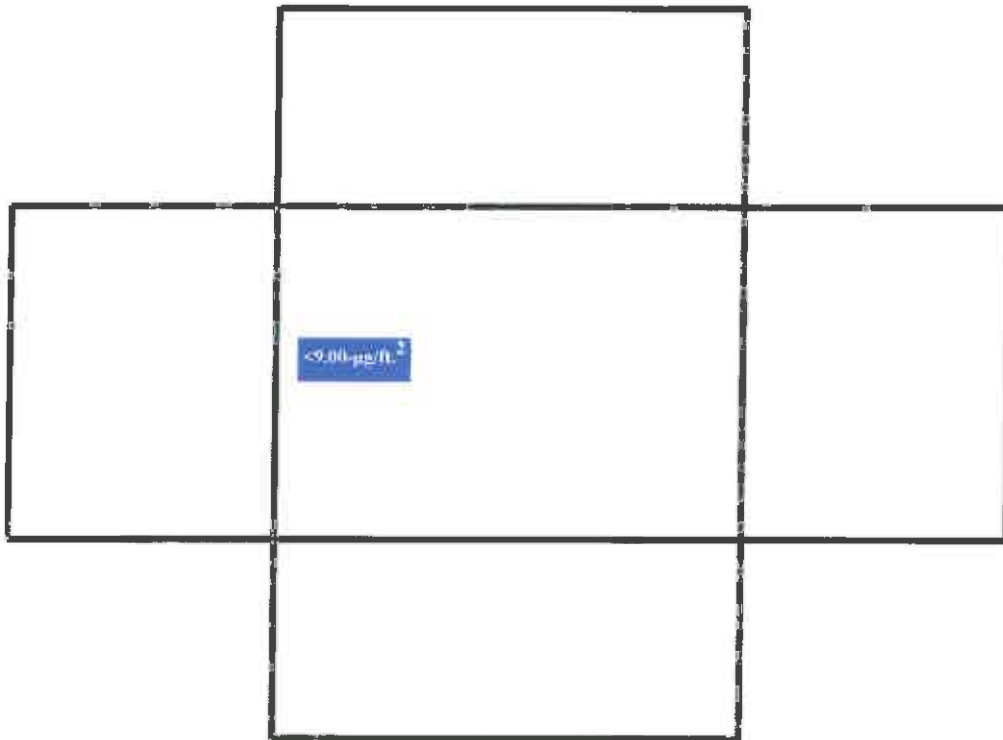


Building 7

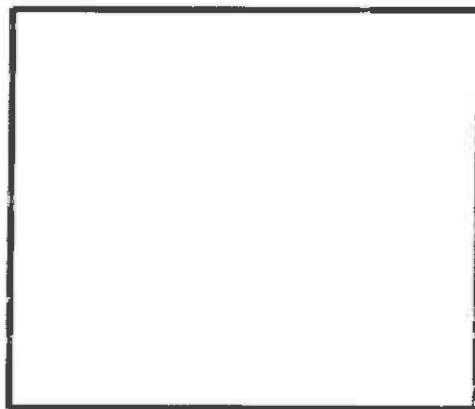
McAlester Armory
Firing Range Floor & Walls
05-16-14



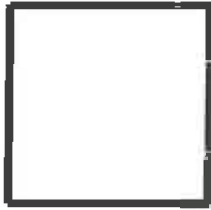
McAlester Armory
Firing Range Side Room
Floor & Walls
05-16-14



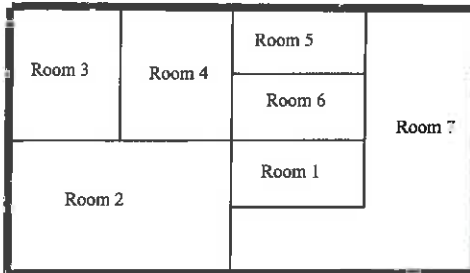
Side Room Ceiling



McAlester Armory Bldgs 2, 3, 5, 6 & 7 05-16-14



Building 2

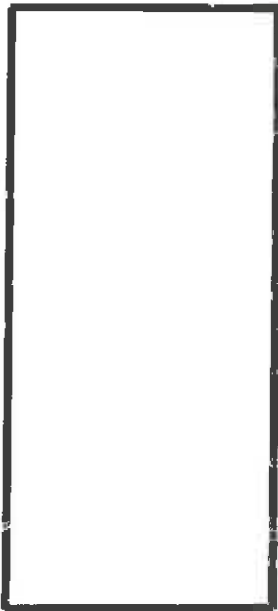


Building 3

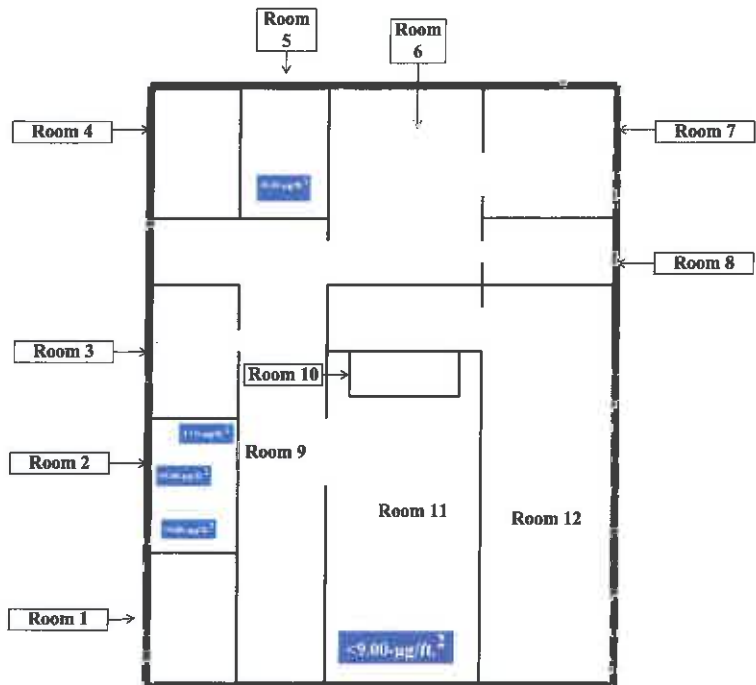


Building 6

Armory



Building 5



Building 7

Department of Environmental Quality

This is to Certify That

RACHEL WOODS

has met the specifications of the Oklahoma Lead-Based Paint Management Act
and is certified as a Lead-Based Paint


INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13701

This certificate is valid from the date of issuance and expires as prescribed by law.

Issued on: **4/1/2014**

Expires on: **3/31/2015**



Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division