

**Former National Guard Armory  
Woodward, 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 Woodward with the Final Remediation Report for the former Woodward 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 Woodward 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:
  - Asbestos-containing cement board, floor tile, and piping insulation
- Asbestos Abatement, including:
  - Removal of cement board, floor tile, and piping insulation

## TARGETED BROWNFIELD ASSESSMENT

On July 25, 2011, DEQ provided a Phase I Targeted Brownfield Assessment to the City of Woodward. 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) inspection

Lead dust wipe sampling

LBP abatement, including:

Scraping and sealing the No Smoking signs located in Room 7 and the exterior wooden trim that wraps the building

Lead dust abatement, including:

HEPA vacuuming and wet washing of floors in the building

Proper disposal of associated waste



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**

**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 the City of Woodward, Oklahoma, Grantee, the following described real property and premises lying and situated in the Woodward County, State of Oklahoma, as follows:

A tract of land bounded and described as follows:

Beginning at a point which is 18.8 feet south and 65.2 feet east of the center of section Thirty-one (31), Township Twenty-three (23) North, Range Twenty (20) W.I.M., thence east for a distance of 225.0 feet; thence south for a distance of 325.0 feet; thence west for a distance of 225.0 feet; thence north for a distance of 325.0 feet to the point of beginning;

together with the improvements thereon and appurtenances thereunto belonging.

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

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TO HAVE AND TO HOLD the Real Property unto the Grantee its successors, and assigns.

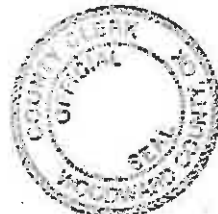
Signed and delivered this 4 day of January 2010

STATE OF OKLAHOMA }  
WOODWARD COUNTY } SS.

I hereby certify that the within instrument is a true copy of the original, filed in my office on the 19<sup>th</sup> day of Jan 2011 at 11:09 o'clock A M., and duly indexed in book 2135 page 595-596  
RON HOHWELER, County Clerk  
By Charlith K. Logan Deputy

STATE OF OKLAHOMA

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



**ACKNOWLEDGMENT**

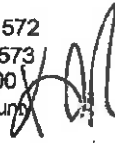
STATE OF OKLAHOMA )  
 ) .ss  
COUNTY OF OKLAHOMA )

Before me, Jennifer Meyer in and for this state, on this 4 day of January, 2010, 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: \_\_\_\_\_  
My Commission Number:  
04000685



**DEED NOTICE**

**COMPLETION OF REMEDIATION  
FORMER WOODWARD ARMORY  
WOODWARD, OKLAHOMA**

**AFFECTED PROPERTY:** The Affected Property is the former Woodward Armory located at 2100 First Street, City of Woodward, Woodward County, Oklahoma, 73801.

The legal description is as follows:

Beginning at a point which is 18.8 feet south and 65.2 feet east of the center of section Thirty-one (31), Township Twenty-three (23) North, Range Twenty (20) W.I.M., thence east for a distance of 225.0 feet; thence south for a distance of 325.0 feet; thence west for a distance of 225.0 feet; thence north for a distance of 325.0 feet to the point of beginning.

**LEGAL BASIS FOR NOTICE:** The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statute, 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.

**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 April 29, 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 February 26, 2014.

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

Oklahoma Department of Environmental Quality  
Central Records

*Brittany Downs*  
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>

**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.



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

5-5-14

\_\_\_\_\_  
Date


**ACKNOWLEDGMENT**

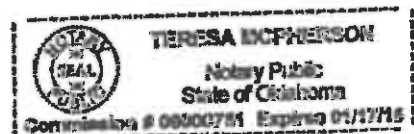
STATE OF OKLAHOMA  
COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 5<sup>th</sup> day of May, 2014, 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

  
\_\_\_\_\_  
Notary Public





## MAINTENANCE PLAN

**MAINTENANCE PLAN  
FORMER WOODWARD ARMORY  
WOODWARD, OKLAHOMA**

The Armory located at 2100 First Street, Woodward, Oklahoma, 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 April 29, 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, and lead dust. The remedy was completed on February 26, 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. The No Smoking signs located in Room 7 and the exterior wood trim that wraps the entire building 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 Woodward Armory Floor Plan Map.

*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 Downs  
Environmental Programs Specialist  
DEQ Land Protection Division  
Site Cleanup Assistance Program

# **ATTACHMENT 1**

## **Land use Restrictions**

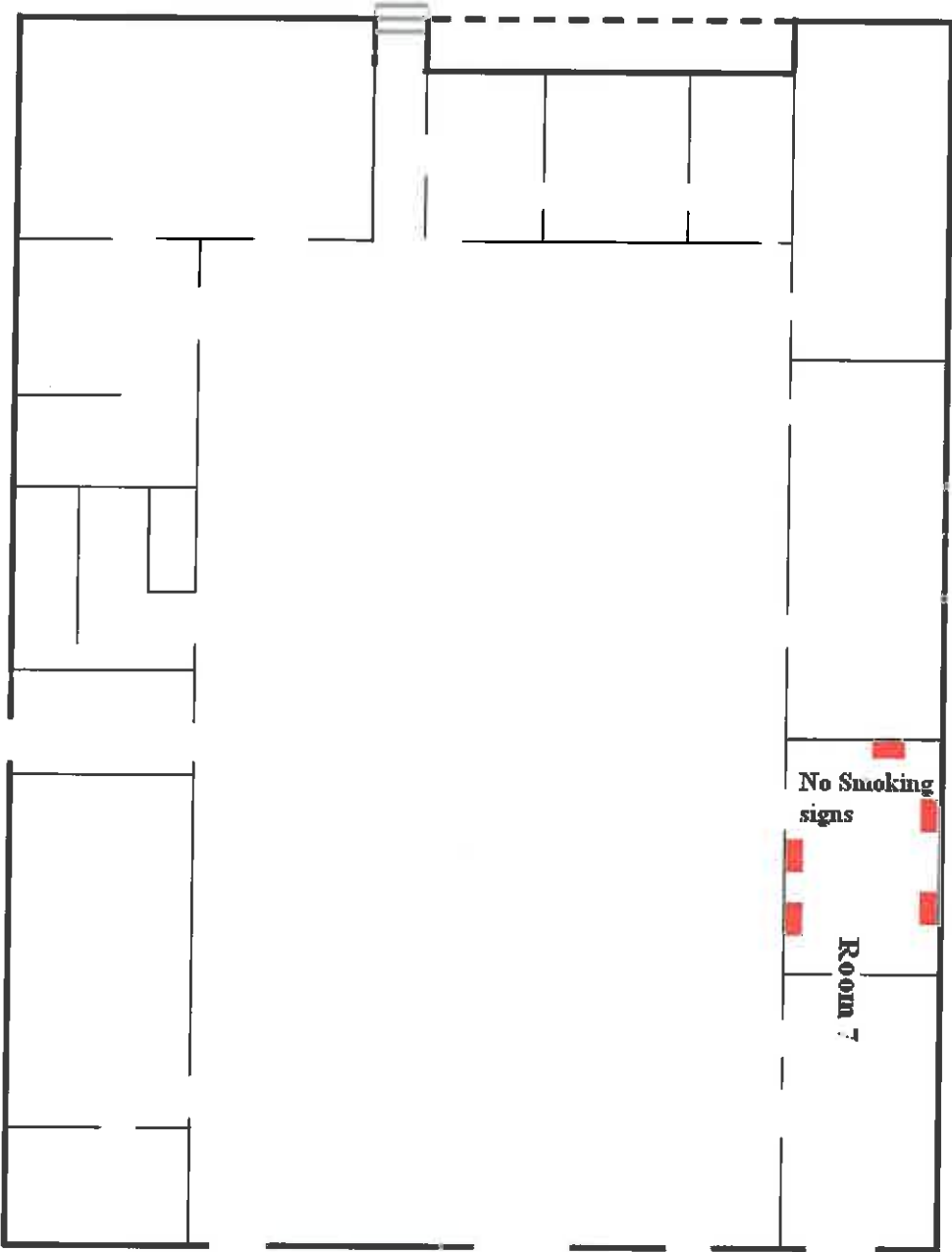
**LAND USE RESTRICTIONS:** The land use restrictions at the above-described Affected Property are:

There are no land use restrictions that apply to this property.

# ATTACHMENT 2

## Floor Plan Map

Labeled areas represent walls and floors with encapsulant and/or sealant.



*Not to scale  
Floor plan approximate*

## ATTACHMENT 3

### DEQ Approved Sealants and Encapsulants List

#### *Acrylic Sealant approved by DEQ*

KM-669 Acrylic

#### *Lead-Based Paint Encapsulants approved by DEQ*

<b>Encapsulant Manufacturer</b>	<b>Encapsulant Product(s)</b>
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**

# *WOODWARD ARMORY*

*DCS Contract Number: ID11070-5*



*04-29-11*

*Asbestos Inspection*

**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 89<sup>th</sup> Street, Suite A-100***

***Oklahoma City, Oklahoma 73159***

***Phone: 405.616.0401***

***Email: [marshenv@swbell.net](mailto:marshenv@swbell.net)***

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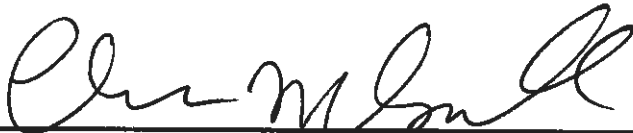
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**CERTIFICATION**

This is to certify that, on April 29, 2011 Marshall Environmental Management, Inc was contracted by the State of Oklahoma, Department of Central Services to conduct an Asbestos Inspection of the Woodward Armory located at 2100 First Street in Woodward, 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, Inc, 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, Inc. 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.

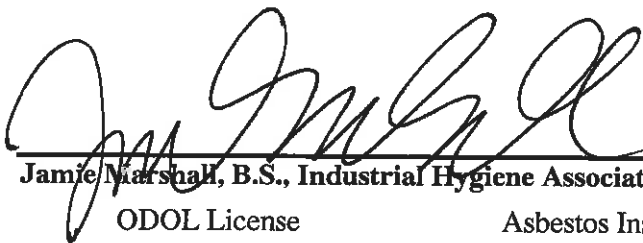


6-6-11

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**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	#400517
Management Planner	#500396
Project Designer	#2415
ODOL License	
Project Designer	#OKMP-0028
Management Planner	#OKMP-0246
Asbestos Inspector	#OK-150343



6-6-11

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**Jamie Marshall, B.S., Industrial Hygiene Associate**
**Date**

ODOL License	Asbestos Inspector	#OK-158090
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**LABORATORY ANALYSIS PERFORMED BY**

Marshall Environmental Management, Inc.  
 1601 Southwest 89<sup>th</sup> Street, A-100  
 Oklahoma City, OK 73159

# **WOODWARD ARMORY**

## **ASBESTOS INSPECTION**

### **EXECUTIVE SUMMARY**

On April 29, 2011, Marshall Environmental Management, Inc. (MEM) completed an Asbestos Inspection of the Woodward Armory so, if necessary, 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). As such, the analytical results correlating with the samples that were collected as part of this Asbestos Inspection identified the presence of asbestos containing cement board located on west exterior soffit, floor tile in Room 2, Room 3 and Room 4, and piping insulation in the Drill Floor Room number 8, Room 14 and Room 13. Asbestos containing homogenous materials (i.e. suspected ACM that are uniform in color and texture and believed to be applied during the same period) include the cement board located on the west exterior soffit, the floor tile located in Rooms 2, 3 and 4 and the piping insulation located in Rooms 5, 6, 7, 8, 12, 13 and 14.

The asbestos concentrations identified in the cement board and floor tile were greater than one percent (>1%). Furthermore, the asbestos containing cement board and floor tile are considered non-friable, that which cannot be rendered to a powder by hand pressure, and are therefore categorized as a "Category I Non-Friable" ACM. Although asbestos containing cement board and floor tile exist on the exterior and within the Armory, no action is required as long as these materials remain in good condition and undisturbed. If the asbestos containing cement board and floor tile remain in place an Asbestos Management Plan is recommended to 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. However, the cement board and/or floor tile must be abated should any activities have the potential to render these materials friable. Even though the abatement of the asbestos containing cement-board and floor tile is not regulated by the ODOL, an Asbestos Abatement Contractor licensed by the ODOL is recommended to carry out the abatement of these materials to make certain that Occupational Safety and Health Administration (OSHA) and EPA compliant methods are utilized.

Since the asbestos concentrations detected in the piping insulation are >1% and because this material is considered friable the piping insulation is classified as a "Regulated" ACM. Therefore, as required by EPA regulations to ensure that OSHA and EPA compliant methods are utilized the abatement and disposal of the pipefitting insulation is required to be treated as a regulated response action, which must be accomplished by a Licensed ODOL Asbestos Abatement Contractor. Moreover, given that the abatement of individual quantities of asbestos containing insulation will require more than one "Glove-bag" containment a Project Design must be submitted and approved by the ODOL.

Lastly, a National Emission Standard for Hazardous Air Pollutants (NESHAP) notification must be submitted to the Oklahoma Department of Environmental Quality (ODEQ) 10-business days preceding the initiation of renovation and/or demolition activities where asbestos containing materials are present in quantities that meet or exceed 160-square feet, 260-linear feet or 35-cubic feet.

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 was systematically inspected in order to collect samples of building 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 material 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 National Emission Standard for Hazardous Air Pollutants (NESHAP) Rules.

## OBSERVATIONS AND FINDINGS

The Woodward Armory is a one-story structure comprised of a brick façade and a partial flat and pitched roof that was constructed on a concrete slab circa 1957. In addition, the laboratory analysis associated with the samples that were collected detected asbestos in the cement board located on the west exterior soffit, in the floor tile in Rooms 2, 3 and 4, and in the piping insulation in Rooms 8, 14 and 13. Approximately 168-square feet (ft<sup>2</sup>) of asbestos containing cement board, 450-ft<sup>2</sup> of floor tile and 238-linear feet of piping insulation was identified. Asbestos containing homogenous materials include the cement board located on the west exterior soffit, the floor tile located in Rooms 2, 3 and 4 and the piping insulation located in Rooms 5, 6, 7, 8, 12, 13 and 14. Correlating chain of custody forms and laboratory analysis are provided for your records in the Appendix to this Report. Table I summarize the sampling location and description of the ACM, the percent and type of asbestos detected and the type and condition of the material. Tables II, III and IV reflect the homogenous locations and quantities of the respective ACM.

TABLE I: SUMMARY OF ASBESTOS CONTAINING MATERIALS

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	PERCENT ASBESTOS	TYPE OF ASBESTOS	TYPE OF MATERIAL	CONDITION OF MATERIAL
0039-01	West Exterior Soffit – East	Cement Board	80%	Chrysotile	Miscellaneous	Good
0039-02	West Exterior Soffit – Center	Cement Board	80%	Chrysotile	Miscellaneous	Good
0039-03	West Exterior Soffit – West	Cement Board	80%	Chrysotile	Miscellaneous	Good
0039-07	Room 2	Gray 9x9 Floor Tile	3%	Chrysotile	Miscellaneous	Good
0039-09	Room 3	Gray 9x9 Floor Tile	3%	Chrysotile	Miscellaneous	Good
0039-11	Room 4	Gray 9x9 Floor Tile	3%	Chrysotile	Miscellaneous	Good
0039-21	Room 8 Drill Floor Room – West Wall	Piping Insulation	20%	Chrysotile	Thermal System Insulation	Good
0039-22	Room 14 Men's Restroom	Piping Insulation	20%	Chrysotile	Thermal System Insulation	Good
0039-23	Room 13 Utility Closet	Piping Insulation	20%	Chrysotile	Thermal System Insulation	Good

TABLE II: LOCATIONS AND QUANTITIES OF ASBESTOS CONTAINING CEMENT BOARD

SAMPLE LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITY
West Exterior Soffit	Cement Board	~168-ft <sup>2</sup>
TOTAL QUANTITIES		~168-ft <sup>2</sup>

TABLE III: LOCATIONS AND QUANTITIES OF ASBESTOS CONTAINING FLOOR TILE

SAMPLE LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITY
Room 2	Floor-Tile Mastic	~150-ft <sup>2</sup>
Room 3	Floor-Tile Mastic	~150-ft <sup>2</sup>
Room 4	Floor-Tile Mastic	~150-ft <sup>2</sup>
TOTAL QUANTITIES		~450-ft <sup>2</sup>

TABLE IV: LOCATIONS AND QUANTITIES OF ASBESTOS CONTAINING PIPING INSULATION

SAMPLE LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITY
Room 5	Piping Insulation	~42-linear ft
Room 6	Piping Insulation	~26-linear ft
Room 7	Piping Insulation	~42-linear ft
Room 8	Piping Insulation	~44-linear ft
Room 12	Piping Insulation	~6-linear ft
Room 13	Piping Insulation	~14-linear ft
Room 14	Piping Insulation	~64-linear ft
TOTAL QUANTITIES		~238-linear ft

## ASBESTOS RESPONSE ACTIONS

- Although asbestos containing cement board, floor tile and piping insulation exist within the Armory no action is required as long as these materials remain in good condition and undisturbed
- If the asbestos containing cement board, floor tile and piping insulation remain in the Armory, an Asbestos Management Plan is recommended to be in place
- The asbestos containing cement board, floor tile and piping insulation must be abated should any activities have the potential to render these materials friable
- Recommendations will suggest that an ODOL, Licensed Asbestos Abatement Contractor carryout the abatement of the asbestos containing cement board and floor tile to make certain that OSHA and EPA compliant methods are utilized
- The abatement and disposal of the pipefitting insulation is required to be treated as a regulated response action, which must be accomplished by a Licensed ODOL Asbestos Abatement Contractor
- Due to the quantities of piping insulation, a Project Design must be submitted to and approved by the ODOL prior to the commencement of abatement activities
- A NESHAP notification must be submitted to the ODEQ 10-business days preceding the initiation of renovation and/or demolition activities where asbestos containing materials are present in quantities that meet or exceed 160-ft<sup>2</sup>, 260-linear feet or 35-cubic feet (ft<sup>3</sup>)

## **REGULATORY REVIEW**

Prior to 1980 asbestos was commonly utilized during construction in addition to being found in various building materials. In 1994, Occupational Safety and Health Administration (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. The EPA and the Oklahoma Department Of Labor (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/odoi/documents/Asbestos\\_law\\_rules.pdf](http://www.ok.gov/odoi/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 pipe insulation and various equipment insulation that contains asbestos as well as rooms where asbestos is present be identified with an Asbestos Warning Label. 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**

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 EPA requires asbestos inspections in school buildings in grades K 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 is required to be submitted to the ODEQ 10-business day prior to the abatement of ACM whenever the quantities meet or exceed 160-square feet, 260-linear feet or 35-cubic feet. Instruction regarding NESHAP notification requirements and ODEQ compliance are provided on the DEQ website at: <http://www.deq.state.ok.us/eqdnew/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 this Inspection are valid as of the date this Asbestos Inspection was performed; however, changes in the conditions of a property 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, Inc. 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*

*LICENSES*

*FLOOR PLAN DIAGRAM*

*DIGITAL PHOTOGRAPHS*



# Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO			
<b>Project Identification</b>	0044-AB-042911	<b>Client/Company</b>	State of Oklahoma Department of Central Services	<b>Client/Company</b>	OK Dept. of Environmental Quality Land Protection Division	<b>Attention</b>	Dustin Davidson	<b>Volume/ Area</b>	Unit	<b>Analysis/ Parameters</b>	
<b>Project Name</b>	Woodward Armory Asbestos Inspection	<b>Attention Title</b>	Cindy Melton Administrative Programs Director	<b>Attention Title</b>	Environmental Programs Specialist	<b>Sample Time</b>					
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Invoice To Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101	<b>On</b>	N/A	N/A	N/A	PLM/AB Identification	
<b>Site Contact</b>	Matt Lehenbauer	<b>Phone Number</b>	405-522-4805	<b>Phone Number</b>	405-702-5115	<b>Off</b>	N/A	N/A	N/A	PLM/AB Identification	
<b>Phone Number</b>	405-466-5386	<b>Fax Number</b>	405-522-0051	<b>Fax Number</b>		<b>On</b>	N/A	N/A	N/A	PLM/AB Identification	
<b>Mobile Number</b>	580-254-0896	<b>Mobile Number</b>		<b>Mobile Number</b>		<b>Off</b>	N/A	N/A	N/A	PLM/AB Identification	
<b>email</b>		<b>E-mail Address</b>	cindy_melton@dcs.state.ok.us	<b>E-mail Address</b>	dustin.davidson@dcs.ok.gov	<b>On</b>	N/A	N/A	N/A	PLM/AB Identification	
<b>Lab Id.</b>	<b>Sample Date</b>	<b>Field Id.</b>	<b>Sample Description</b>	<b>Sample Location</b>	<b>Sample Matrix</b>	<b>Sample Media</b>	<b>Sample Time</b>	<b>Volume/ Area</b>	<b>Unit</b>	<b>Analysis/ Parameters</b>	
0039	4/29/2011	PLM-01	Cement Board	West Exterior East Soffit	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-02	Cement Board	West Exterior Center Soffit	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-03	Cement Board	West Exterior West Soffit	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-04	Window Caulk	West Exterior Center Window	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-05	Window Caulk	North Exterior Center Window	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-06	Window Caulk	East Exterior Center Window	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-07	Gray 9x9 Floor Tile	Room 2	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-08	Gray 9x9 Floor-Tile Mastic	Room 2	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-09	Gray 9x9 Floor Tile	Room 3	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	
0039	4/29/2011	PLM-10	Gray 9x9 Floor-Tile Mastic	Room 3	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification	

<b>Collected By:</b>	Jamie Marshall	<b>Date:</b>	4/29/2011	<b>Time:</b>	13:00
<b>Received By:</b>	Jamie Marshall	<b>Date:</b>		<b>Time:</b>	
<b>Turn-Around Time:</b>	Standard	<b>Condition Upon Receipt:</b>	Acceptable	<b>Method of Shipment:</b>	Jamie Marshall
	Rush	<b>Sample Notes:</b>	In Folder		
	Immediate				

<b>Signature:</b>	<b>Date:</b>	<b>Signature:</b>	<b>Date:</b>
<b>Signature:</b>	<b>Date:</b>	<b>Signature:</b>	<b>Date:</b>

<b>Matrix:</b>	Micro-Vacuum	<b>Matrix:</b>	Air
	Mold Plate		Aqueous
	Spore Trap		Bulk
	Swab		Sludge
	Tap-Lite		Soil
			Solid
<b>Page</b>	1	<b>of</b>	3

# Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO			
<b>Project Identification</b>	0044-AB-042911	<b>Client/Company</b>	State of Oklahoma Department of Central Services	<b>Client/Company</b>	OK Dept. of Environmental Quality Land Protection Division			<b>REPORT TO</b>	OK Dept. of Environmental Quality Land Protection Division		
<b>Project Name</b>	Woodward Armory Asbestos Inspection	<b>Attention Title</b>	Cindy Melton Administrative Programs Director	<b>Attention Title</b>	Dustin Davidson Environmental Programs Specialist			<b>REPORT TO</b>	Dustin Davidson Environmental Programs Specialist		
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Invoice To Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101			<b>REPORT TO</b>	P.O. Box 1677 Oklahoma City, OK 73101		
<b>Site Contact</b>	Matt Lehenbauer	<b>Phone Number</b>	405-522-4805	<b>Phone Number</b>	405-702-5115			<b>REPORT TO</b>	405-702-5115		
<b>Phone Number</b>	405-466-5386	<b>Fax Number</b>	405-522-0051	<b>Fax Number</b>				<b>REPORT TO</b>			
<b>Mobile Number</b>	580-254-0896	<b>Mobile Number</b>		<b>Mobile Number</b>				<b>REPORT TO</b>			
<b>email</b>		<b>E-mail Address</b>	cindy_melton@dcs.state.ok.us	<b>E-mail Address</b>	dustin.davidson@dcs.ok.gov			<b>REPORT TO</b>	dustin.davidson@dcs.ok.gov		

Lab Id.	Sample Date	Field Id	Sample Description	Sample Location	Sample Matrix	Sample Media	Sample Time	Volume Area	Unit	Analysis/ Parameters
0039	4/29/2011	PLM-11	Gray 9x9 Floor Tile	Room 4	Bulk	N/A	On	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-12	Gray 9x9 Floor-Tile Mastic	Room 4	Bulk	N/A	Off	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-13	Brown Cove Base	Room 14	Bulk	N/A	On	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-14	Brown Cove-Base Mastic	Room 14	Bulk	N/A	Off	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-15	Brown Cove Base	Room 12	Bulk	N/A	On	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-16	Brown Cove-Base Mastic	Room 12	Bulk	N/A	Off	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-17	Brown Cove Base	Room 15	Bulk	N/A	On	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-18	Brown Cove-Base Mastic	Room 15	Bulk	N/A	Off	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-19	Tar on Metal Flue	Room 13	Bulk	N/A	On	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-20	Tar on Metal Flue	Room 19	Bulk	N/A	Off	N/A	N/A	PLM/AB Identification

<b>Collected By:</b>	Jamie Marshall	<b>Date</b>	4/29/2011	<b>Requisitioned By</b>	N/A
<b>Received By:</b>	<i>[Signature]</i>	<b>Time</b>	13:00	<b>Requisitioned Time</b>	
<b>Turn-Around Time</b>		<b>Signature</b>		<b>Signature</b>	
<b>Standard</b>	5-7 Business Days	<b>Condition Upon Receipt</b>	Acceptable	<b>Method of Shipment</b>	Jamie Marshall
<b>Rush</b>	Next Day	<b>Sample Notes</b>	In Folder		
<b>Immediate</b>	Same Day				

<b>Matrix</b>	Air	<b>Micro-Vacuum</b>		<b>MP</b>		<b>ST</b>		<b>SW</b>		<b>TL</b>	
<b>Matrix</b>	Aqueous	<b>Micro-Vacuum</b>		<b>MP</b>		<b>ST</b>		<b>SW</b>		<b>TL</b>	
<b>Matrix</b>	Bulk	<b>Micro-Vacuum</b>		<b>MP</b>		<b>ST</b>		<b>SW</b>		<b>TL</b>	
<b>Matrix</b>	Sludge	<b>Micro-Vacuum</b>		<b>MP</b>		<b>ST</b>		<b>SW</b>		<b>TL</b>	
<b>Matrix</b>	Soil	<b>Micro-Vacuum</b>		<b>MP</b>		<b>ST</b>		<b>SW</b>		<b>TL</b>	
<b>Matrix</b>	Solid	<b>Micro-Vacuum</b>		<b>MP</b>		<b>ST</b>		<b>SW</b>		<b>TL</b>	
<b>Page</b>	2	<b>of</b>	3								

# Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO			
<b>Project Identification</b>	0044-AB-042911			<b>Client/Company</b>	State of Oklahoma Department of Central Services			<b>Client/Company</b>	OK Dept. of Environmental Quality Land Protection Division		
<b>Project Name</b>	Woodward Armory Asbestos Inspection			<b>Attention Title</b>	Cindy Melton Administrative Programs Director			<b>Attention Title</b>	Dustin Davidson Environmental Programs Specialist		
<b>Project Address</b>	2100 1st Street Woodward, OK 73801			<b>Invoice To Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448			<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101		
<b>Site Contact</b>	Matt Lehenbauer			<b>Phone Number</b>	405-522-4805			<b>Phone Number</b>	405-702-5115		
<b>Phone Number</b>	405-466-5386			<b>Fax Number</b>	405-522-0051			<b>Fax Number</b>			
<b>Mobile Number</b>	580-254-0896			<b>Mobile Number</b>				<b>Mobile Number</b>			
<b>email</b>				<b>E-mail Address</b>	cindy_melton@dcs.state.ok.us			<b>E-mail Address</b>	dustin.davidson@dcs.ok.gov		

Lab Id	Sample Date	Field Id	Sample Description	Sample Location	Sample Matrix	Sample Media	Sample Time	Volume Area	Unit	Analysis Parameters
0039	4/29/2011	PLM-21	Piping Insulation	Drill Floor Room West Wall	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-22	Piping Insulation	Men's Restroom West Wall	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-23	Piping Insulation	Utility Closet	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-24	White Ceiling Tile	Room 2	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-25	White Ceiling Tile	Room 3	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-26	White Ceiling Tile	Room 4	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-27	Brown Ceiling Tile	Room 2	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-28	Brown Ceiling Tile	Room 3	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification
0039	4/29/2011	PLM-29	Brown Ceiling Tile	Room 4	Bulk	N/A	N/A	N/A	N/A	PLM/AB Identification

<b>Collected By</b>	Jamie Marshall			<b>Relinquished By</b>	N/A		
<b>Received By</b>	[Signature]			<b>Relinquished Date</b>	4/29/2011 13:00		
<b>Turn-Around Time</b>	5-7 Business Days			<b>Condition Upon Receipt</b>	Acceptable		
<b>Standard</b>	Immediate			<b>Sample Notes</b>	In Folder		
<b>Rush</b>	Same Day			<b>Method of Shipment</b>	Jamie Marshall		
<b>Immediate</b>	Same Day			<b>Matrix</b>	Air		
				<b>Aqueous</b>	Bulk		
				<b>Sludge</b>	Soil		
				<b>Solid</b>	Solid		
				<b>Micro-Vacuum</b>	3		
				<b>Mold Plate</b>	3		
				<b>Spore Trap</b>	3		
				<b>Swab</b>	3		
				<b>Page</b>	3 of 3		

## Bulk Asbestos Analysis

### Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100

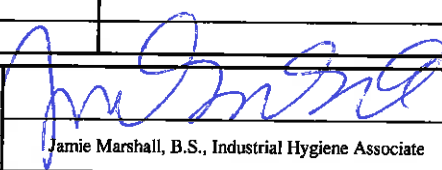
Oklahoma City, OK 73159

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

[marshenv@swbell.net](mailto:marshenv@swbell.net)

PROJECT LOCATION		INVOICE TO		REPORT TO	
<b>Project Identification</b>	0044-AB-042911	<b>Client</b>	State of Oklahoma Department of Central Services	<b>Client</b>	OK Department of Environmental Quality Land Protection Division
<b>Project</b>	Woodward Armory	<b>Attention</b>	Cindy Melton Administrative Programs Director	<b>Attention</b>	Dustin Davidson Environmental Programs Specialist
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101
<b>Contact</b>	Matt Lehenbauer	<b>Phone</b>	405-522-4805	<b>Phone</b>	405-702-5115
<b>Phone</b>	405-466-5356	<b>Fax</b>	405-522-0051	<b>Fax</b>	
<b>Cell</b>	580-254-0896	<b>Other</b>		<b>Other</b>	
<b>email</b>		<b>email</b>	<a href="mailto:cindy_melton@dcs.state.ok.us">cindy_melton@dcs.state.ok.us</a>	<b>email</b>	<a href="mailto:dustin.davidson@deq.ok.gov">dustin.davidson@deq.ok.gov</a>

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		80% ASBESTOS DETECTED		
			COLOR	CONDITION			
0039-042911-PLM-01	April 29, 2011	Cement Board	Gray	Good	80%	Chrysotile	20% Calcareous Material
		West Exterior					
		East Soffit	Miscellaneous				
0039-042911-PLM-02	April 29, 2011	Cement Board	Gray	Good	80%	Chrysotile	20% Calcareous Material
		West Exterior					
		Center Soffit	Miscellaneous				
0039-042911-PLM-03	April 29, 2011	Cement Board	Gray	Good	80%	Chrysotile	20% Calcareous Material
		West Exterior					
		West Soffit	Miscellaneous				
0039-042911-PLM-04	April 29, 2011	Window Caulk	Gray	Good			99% Calcareous Material
		West Exterior					1% Cellulose
		Center Window	Miscellaneous				
0039-042911-PLM-05	April 29, 2011	Window Caulk	Gray	Good			99% Calcareous Material
		North Exterior					1% Cellulose
		Center Window	Miscellaneous				

Jamie Marshall		May 10, 2011
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
--	---

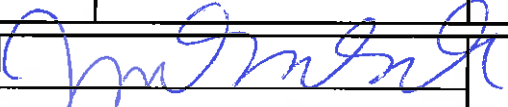
# Bulk Asbestos Analysis

## 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](mailto:marshenv@swbell.net)

PROJECT LOCATION		INVOICE TO		REPORT TO	
<b>Project Identification</b>	0044-AB-042911	<b>Client</b>	State of Oklahoma Department of Central Services	<b>Client</b>	OK Department of Environmental Quality Land Protection Division
<b>Project</b>	Woodward Armory	<b>Attention</b>	Cindy Melton Administrative Programs Director	<b>Attention</b>	Dustin Davidson Environmental Programs Specialist
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101
<b>Contact</b>	Matt Lehenbauer	<b>Phone</b>	405-522-4805	<b>Phone</b>	405-702-5115
<b>Phone</b>	405-466-5356	<b>Fax</b>	405-522-0051	<b>Fax</b>	
<b>Cell</b>	580-254-0896	<b>Other</b>		<b>Other</b>	
<b>email</b>		<b>email</b>	cindy_melton@dcs.state.ok.us	<b>email</b>	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
			COLOR				
0039-042911-PLM-06	April 29, 2011	Window Caulk	Gray		99%	Calcereous Material	
		East Exterior	Good		1%	Cellulose	
		Center Window	Miscellaneous				
0039-042911-PLM-07	April 29, 2011	Gray 9x9 Floor Tile	Gray	3%	Chrysotile	99%	Vinyl Aggregate
		Room 2	Good				
			Miscellaneous				
0039-042911-PLM-08	April 29, 2011	Gray 9x9 Floor-Tile Mastic	Black		100%	Tar	
		Room 2	Good				
			Miscellaneous				
0039-042911-PLM-09	April 29, 2011	Gray 9x9 Floor Tile	Gray	3%	Chrysotile	99%	Vinyl Aggregate
		Room 3	Good				
			Miscellaneous				
0039-042911-PLM-10	April 29, 2011	Gray 9x9 Floor-Tile Mastic	Black		100%	Tar	
		Room 3	Good				
			Miscellaneous				

Jamie Marshall		May 10, 2011
<b>ANALYST NAME (PRINT)</b>	Jamie Marshall, B.S., Industrial Hygiene Associate	<b>DATE ANALYZED</b>

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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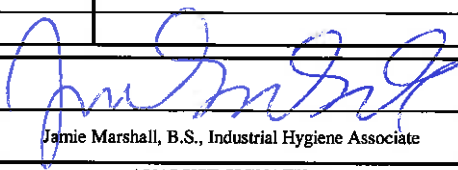
## Bulk Asbestos Analysis

### Marshall Environmental Management, Inc.

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

PROJECT LOCATION		INVOICE TO		REPORT TO	
<b>Project Identification</b>	0044-AB-042911	<b>Client</b>	State of Oklahoma Department of Central Services	<b>Client</b>	OK Department of Environmental Quality Land Protection Division
<b>Project</b>	Woodward Armory	<b>Attention</b>	Cindy Melton Administrative Programs Director	<b>Attention</b>	Dustin Davidson Environmental Programs Specialist
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101
<b>Contact</b>	Matt Lehenbauer	<b>Phone</b>	405-522-4805	<b>Phone</b>	405-702-5115
<b>Phone</b>	405-466-5356	<b>Fax</b>	405-522-0051	<b>Fax</b>	
<b>Cell</b>	580-254-0896	<b>Other</b>		<b>Other</b>	
<b>email</b>		<b>email</b>	<a href="mailto:cindy_melton@dcs.state.ok.us">cindy_melton@dcs.state.ok.us</a>	<b>email</b>	<a href="mailto:dustin.davidson@deq.ok.gov">dustin.davidson@deq.ok.gov</a>

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		3% ASBESTOS DETECTED	
			COLOR			
0039-042911-PLM-11	April 29, 2011	Gray 9x9 Floor Tile	Gray		3% Chrysotile	97% Vinyl Aggregate
		Room 4	Good			
			Miscellaneous			
0039-042911-PLM-12	April 29, 2011	Gray 9x9 Floor-Tile Mastic	Black			100% Tar
		Room 4	Good			
			Miscellaneous			
0039-042911-PLM-13	April 29, 2011	Brown Cove Base	Brown			100% Rubber
		Room 14	Good			
			Miscellaneous			
0039-042911-PLM-14	April 29, 2011	Brown Cove-Base Mastic	Yellow			100% Adhesive
		Room 14	Good			
			Miscellaneous			
0039-042911-PLM-15	April 29, 2011	Brown Cove Base	Brown			100% Rubber
		Room 12	Good			
			Miscellaneous			

Jamie Marshall		May 10, 2011
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
--	---

## Bulk Asbestos Analysis

### Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100

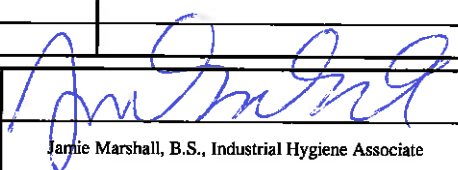
Oklahoma City, OK 73159

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

[marshenv@swbell.net](mailto:marshenv@swbell.net)

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0044-AB-042911	Client	State of Oklahoma Department of Central Services	Client	OK Department of Environmental Quality Land Protection Division
Project	Woodward Armory	Attention	Cindy Melton Administrative Programs Director	Attention	Dustin Davidson Environmental Programs Specialist
Project Address	2100 1st Street Woodward, OK 73801	Address	P.O. Box 53448 Oklahoma City, OK 73152-3448	Address	P.O. Box 1677 Oklahoma City, OK 73101
Contact	Matt Lehenbauer	Phone	405-522-4805	Phone	405-702-5115
Phone	405-466-5356	Fax	405-522-0051	Fax	
Cell	580-254-0896	Other		Other	
email		email	<a href="mailto:cindy_melton@dcs.state.ok.us">cindy_melton@dcs.state.ok.us</a>	email	<a href="mailto:dustin.davidson@deq.ok.gov">dustin.davidson@deq.ok.gov</a>

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0039-042911-PLM-16	April 29, 2011	Brown Cove-Base Mastic	Yellow	Good	100%	Adhesive
		Room 12				
			Miscellaneous			
0039-042911-PLM-17	April 29, 2011	Brown Cove Base	Brown	Good	100%	Rubber
		Room 15				
			Miscellaneous			
0039-042911-PLM-18	April 29, 2011	Brown cove-Base Mastic	Yellow	Good	100%	Adhesive
		Room 15				
			Miscellaneous			
0039-042911-PLM-19	April 29, 2011	Tar	Black	Good	100%	Tar
		On Metal Flue				
		Room 13	Miscellaneous			
0039-042911-PLM-20	April 29, 2011	Tar	Black	Good	100%	Tar
		On Metal Flue				
		Room 19	Miscellaneous			

Jamie Marshall		May 10, 2011
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
--	---

# Bulk Asbestos Analysis

## Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100

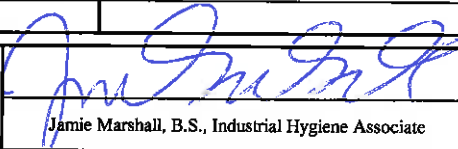
Oklahoma City, OK 73159

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

[marshenv@swbell.net](mailto:marshenv@swbell.net)

PROJECT LOCATION		INVOICE TO		REPORT TO	
<b>Project Identification</b>	0044-AB-042911	<b>Client</b>	State of Oklahoma Department of Central Services	<b>Client</b>	OK Department of Environmental Quality Land Protection Division
<b>Project</b>	Woodward Armory	<b>Attention</b>	Cindy Melton Administrative Programs Director	<b>Attention</b>	Dustin Davidson Environmental Programs Specialist
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101
<b>Contact</b>	Matt Lehenbauer	<b>Phone</b>	405-522-4805	<b>Phone</b>	405-702-5115
<b>Phone</b>	405-466-5356	<b>Fax</b>	405-522-0051	<b>Fax</b>	
<b>Cell</b>	580-254-0896	<b>Other</b>		<b>Other</b>	
<b>email</b>		<b>email</b>	<a href="mailto:cindy_melton@dcs.state.ok.us">cindy_melton@dcs.state.ok.us</a>	<b>email</b>	<a href="mailto:dustin.davidson@deq.ok.gov">dustin.davidson@deq.ok.gov</a>

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		20% ASBESTOS DETECTED	
			COLOR	CONDITION		
0039-042911-PLM-21	April 29, 2011	Piping Insulation	Brown	Good	20% Chrysotile	80% Cellulose
		Drill Floor Room				
		West Wall	Thermal System Insulation			
0039-042911-PLM-22	April 29, 2011	Piping Insulation	Brown	Good	20% Chrysotile	80% Cellulose
		Men's Restroom				
		West Wall	Thermal System Insulation			
0039-042911-PLM-23	April 29, 2011	Piping Insulation	Brown	Good	20% Chrysotile	80% Cellulose
		Utility Closet				
			Thermal System Insulation			
0039-042911-PLM-24	April 29, 2011	White Ceiling tile	White	Good		100% Foam
		Room 2				
			Miscellaneous			
0039-042911-PLM-25	April 29, 2011	White Ceiling Tile	White	Good		100% Foam
		Room 3				
			Miscellaneous			

Jamie Marshall		May 10, 2011
<b>ANALYST NAME (PRINT)</b>	Jamie Marshall, B.S., Industrial Hygiene Associate	<b>DATE ANALYZED</b>

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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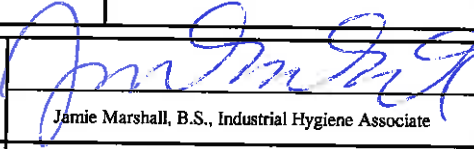
# Bulk Asbestos Analysis

## Marshall Environmental Management, Inc.

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

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0044-AB-042911	Client	State of Oklahoma Department of Central Services	Client	OK Department of Environmental Quality Land Protection Division
Project	Woodward Armory	Attention	Cindy Melton Administrative Programs Director	Attention	Dustin Davidson Environmental Programs Specialist
Project Address	2100 1st Street Woodward, OK 73801	Address	P.O. Box 53448 Oklahoma City, OK 73152-3448	Address	P.O. Box 1677 Oklahoma City, OK 73101
Contact	Matt Lehenbauer	Phone	405-522-4805	Phone	405-702-5115
Phone	405-466-5356	Fax	405-522-0051	Fax	
Cell	580-254-0896	Other		Other	
email		email	<a href="mailto:cindy_melton@dcs.state.ok.us">cindy_melton@dcs.state.ok.us</a>	email	<a href="mailto:dustin.davidson@deq.ok.gov">dustin.davidson@deq.ok.gov</a>

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION	30%	40%
0039-042911-PLM-26	April 29, 2011	White Ceiling Tile	Brown	Good		30% Calcareous Material
		Room 4				30% Cellulose
				Miscellaneous		40% Fibrous Glass
0039-042911-PLM-27	April 29, 2011	Brown Ceiling Tile	Brown	Good		30% Calcareous Material
		Room 2				30% Cellulose
				Miscellaneous		40% Fibrous Glass
0039-042911-PLM-28	April 29, 2011	Brown Ceiling Tile	Brown	Good		30% Calcareous Material
		Room 3				30% Cellulose
				Miscellaneous		40% Fibrous Glass
0039-042911-PLM-29	April 29, 2011	Brown Ceiling Tile	Brown	Good		30% Calcareous Material
		Room 4				30% Cellulose
				Miscellaneous		40% Fibrous Glass

Jamie Marshall  <b>ANALYST NAME (PRINT)</b>	 Jamie Marshall, B.S., Industrial Hygiene Associate  <b>ANALYST SIGNATURE</b>	May 10, 2011  <b>DATE ANALYZED</b>
---	---	--

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

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-MPI30246.**

*Lloyd L. Fields*

LLOYD L. FIELDS  
Commissioner of Labor

July 14, 2010

Date of Issuance

**EXPIRES: June 30, 2011**

FEI: \$25.00

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 INSPECTOR**

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. **OK158090**.

*Lloyd L. Fields*

LLOYD L. FIELDS  
Commissioner of Labor

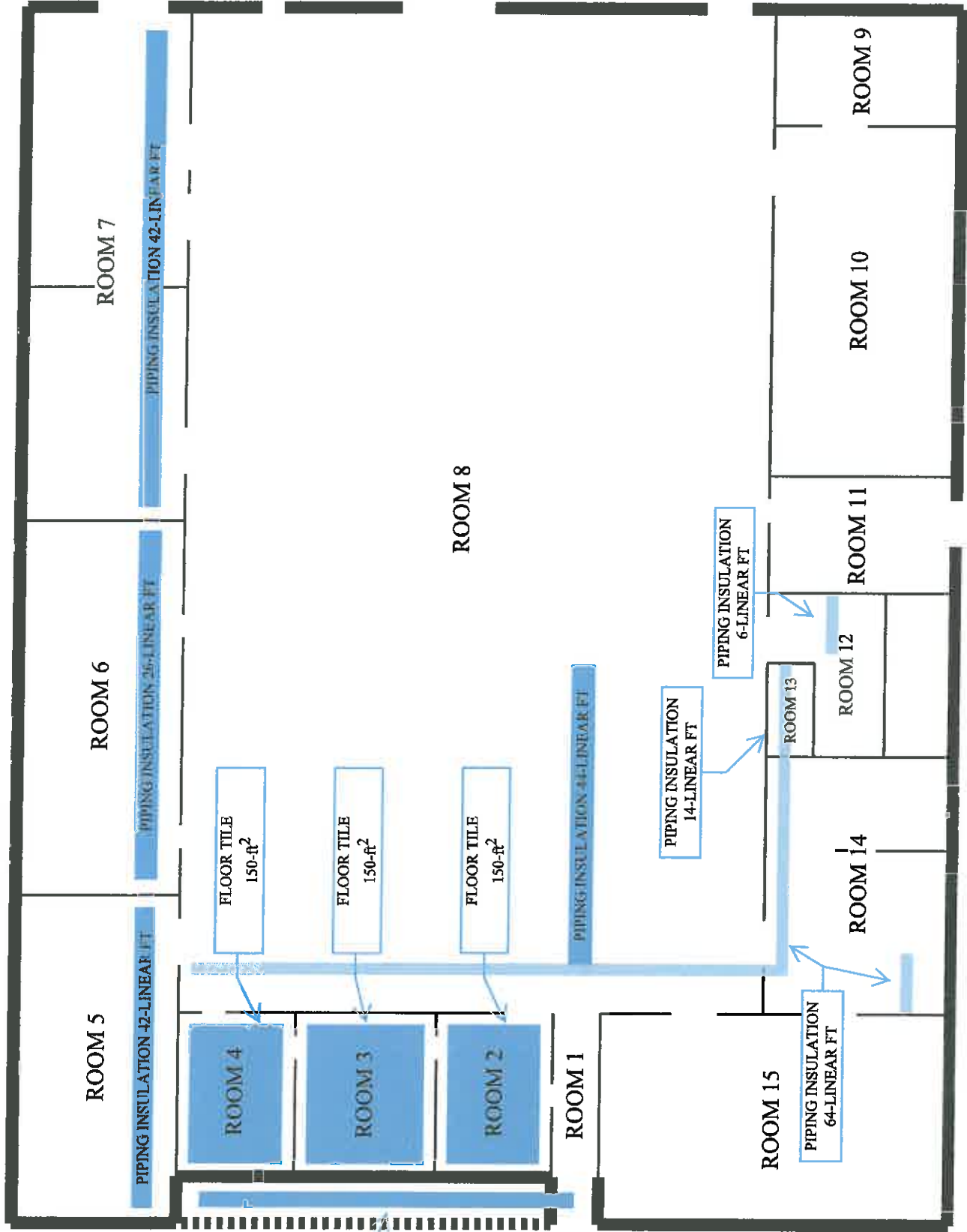
June 03, 2010

State of Oklahoma

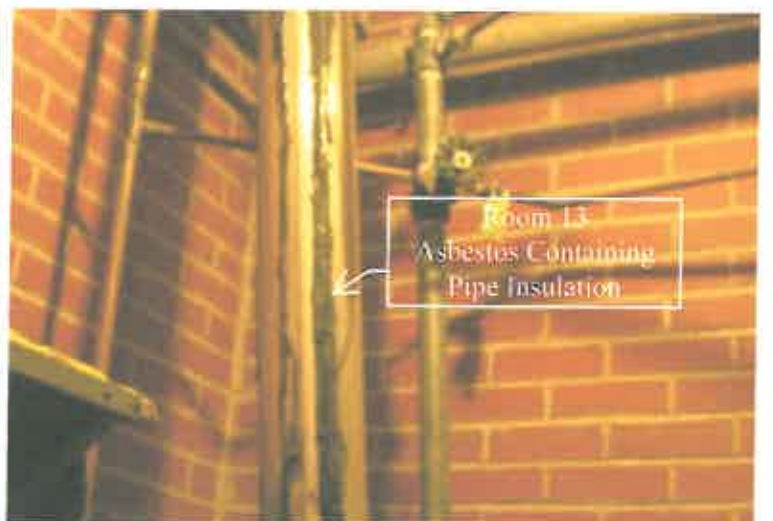
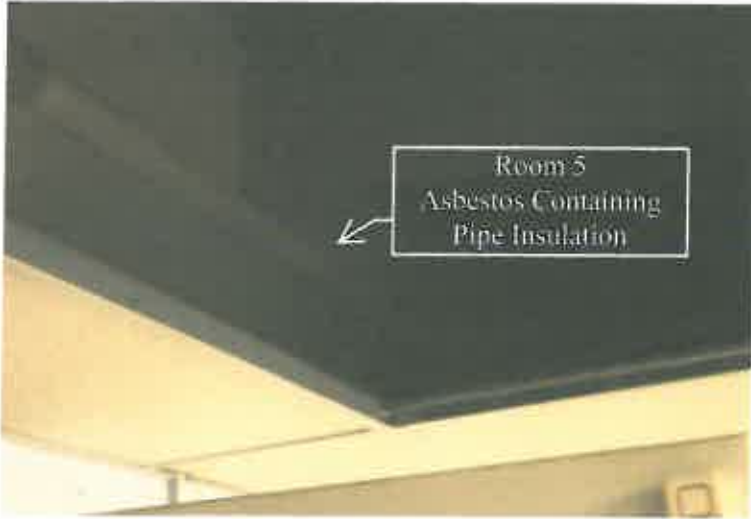
**EXPIRES: June 02, 2011**

# WOODWARD ARMORY

## ASBESTOS CONTAINING MATERIALS









# *WOODWARD ARMORY*

*DCS Contract Number: ID11070-5*



04-29-11

*Lead-Based Paint Inspection &  
Settled-Dust Sampling*

**Prepared For:**

***Oklahoma Department of Environmental Quality***

***Land Protection Division***

***707 North Robinson***

***Oklahoma City, Oklahoma 73102***

**RECEIVED**  
APR 29 2011  
LAND PROTECTION DIVISION  
DEPARTMENT OF ENVIRONMENTAL QUALITY

**Prepared By:**

***Marshall Environmental Management, Inc.***

***1601 Southwest 89<sup>th</sup> Street, Suite A-100***

***Oklahoma City, Oklahoma 73159***



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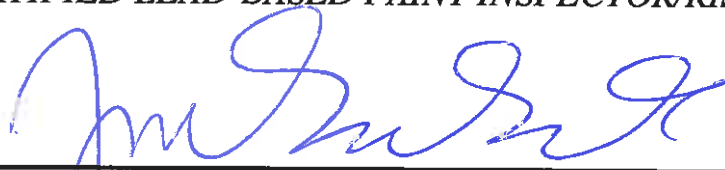
***CERTIFICATION***

This is to certify that, Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection in addition to collecting samples of settled dust within the Woodward Armory located at 2100 First Street in Woodward, Oklahoma for the State of Oklahoma Department of Environmental Quality, Land Protection Division. All services performed on April 29, 2011 were conducted by a Certified, Oklahoma Department of Environmental Quality, Lead-Based Paint Inspector/Risk Assessor Jamie Marshall, representative of Marshall Environmental Management, Inc., under the direction of Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. 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 settled dust that were present at the time this Inspection was accomplished.

***OWNER INFORMATION***

City of Woodward

***CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR***



6-6-11

---

Jamie Marshall, B.S., Industrial Hygiene Associate  
ODEQ Certification Number: OKRASR13418

Report Date

***CERTIFIED LEAD-BASED PAINT FIRM***

**Marshall Environmental Management, Inc.**  
1601 Southwest 89<sup>th</sup> 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: November 11, 2006

# WOODWARD ARMORY

## LEAD-BASED PAINT INSPECTION & SETTLED DUST SAMPLING

### EXECUTIVE SUMMARY

On April 29, 2011, Marshall Environmental Management, Inc. (MEM) performed a Lead-Based Paint (LBP) Inspection in addition to collecting samples of settled dust within the Woodward Armory located at 2100 First Street in Woodward, Oklahoma. This Inspection and sampling event were accomplished as part of the Oklahoma Department of Environmental Quality (ODEQ), Land Protection Division (LPD) Site Cleanup Assistance Program and Armory Cleanup Program with the purpose of establishing the presence of LBP and lead-laden dust so, if necessary, a strategy may be prepared for remediation and/or abatement activities.

The analytical data resulting from the surfaces that were sampled identified red/white LBP in the no smoking sign on the wall in Room 7 and in the white paint on the wood trim located on the exterior of the Armory. Furthermore, lead-laden dust was discovered on all of the surfaces that were sampled within the Armory. The remainder of this Report is comprised of the Sampling Methodology, Scope of Service, Analytical Findings and specific 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 Settled Dust Sampling Event were conducted in accordance with the United States Department of Housing and Urban Development (HUD) guidelines, "*Guidelines for the Evaluation of Lead-Based Paint Hazards in Housing*," in addition to 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, to include the start and stop times and calibration checks, and the floor plan diagram that illustrates room equivalents and positive LBP sampling locations are provided with the Appendix to this Report.

**LEAD-LADEN DUST**

Settled dust collected from randomly selected floor surfaces throughout the Armory were sampled and analyzed for lead content. The settled 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 indicated 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 ( $\geq 1\text{-mg/cm}^2$ ). As such, LBP was identified in the paint utilized to create the red/white no smoking sign on the side A wall in Room 7 and in the white paint on the wood trim located on exterior sides A, B, C and D of the Armory.

**LEAD-LADEN DUST**

In accordance with HUD/EPA, settled dust containing concentrations of lead equal to or greater than 40-micrograms per square foot ( $40\text{-}\mu\text{g/ft}^2$ ) represent lead contamination; this action level applies to all surfaces within the Armory. Therefore, the table below reflects the concentrations of lead in settled dust that were established throughout the Armory, the "bolded" data represents lead concentrations, which exceeded the respective clearance level.

**TABLE 1: SURFACE WIPE ANALYSIS**

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
0036-01	ROOM 1	<b>65.5</b>	$40\text{-}\mu\text{g/ft}^2$
0036-02	ROOM 2	<b>124</b>	$40\text{-}\mu\text{g/ft}^2$
0036-03	ROOM 3	<b>127</b>	$40\text{-}\mu\text{g/ft}^2$
0036-04	ROOM 4	<b>458</b>	$40\text{-}\mu\text{g/ft}^2$
0036-05	ROOM 5	<b>108</b>	$40\text{-}\mu\text{g/ft}^2$
0036-06	ROOM 6	<b>75.4</b>	$40\text{-}\mu\text{g/ft}^2$
0036-07	ROOM 7	<b>380</b>	$40\text{-}\mu\text{g/ft}^2$
0036-08	ROOM 8	<b>197</b>	$40\text{-}\mu\text{g/ft}^2$
0036-8W	ROOM 8-WEST	<b>161</b>	$40\text{-}\mu\text{g/ft}^2$
0036-8C	ROOM 8-CENTER	<b>236</b>	$40\text{-}\mu\text{g/ft}^2$
0036-8E	ROOM 8-EAST	<b>197</b>	$40\text{-}\mu\text{g/ft}^2$
0036-9	ROOM 9	<b>255</b>	$40\text{-}\mu\text{g/ft}^2$
0036-10	ROOM 10	<b>434</b>	$40\text{-}\mu\text{g/ft}^2$
0036-11	ROOM 11	<b>323</b>	$40\text{-}\mu\text{g/ft}^2$
0036-12	ROOM 12	<b>120</b>	$40\text{-}\mu\text{g/ft}^2$
0036-13	ROOM 13	<b>263</b>	$40\text{-}\mu\text{g/ft}^2$
0036-14	ROOM 14	<b>237</b>	$40\text{-}\mu\text{g/ft}^2$
0036-15	ROOM 15	<b>42.5</b>	$40\text{-}\mu\text{g/ft}^2$

### *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 Woodward Armory.

### *DISCLAIMER AND STANDARD OF CARE*

The Woodward Armory is a one-story structure comprised of a brick façade and a partial flat and pitched roof that was constructed on a concrete slab circa 1957. 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 2-square feet (2-ft<sup>2</sup>) 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, no deviations from the Scope of Service took place.

### *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***

***SURFACE WIPES***

***LBP SURFACES***

***CERTIFICATIONS***

***DIGITAL PHOTOGRAPHS***

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

**XRF Results**  
**Woodward Armory**  
**2100 First Street**  
**Woodward, Oklahoma 73801**

Index	Time	Component	Substrate	Site	Condition	Color	Results	Action Level	Ppt	PPM	POK
19	2011-04-29 13:53								9.98 ± 0.00	1.17 ± 0.00	0.02 ± 0.00
20	2011-04-29 14:02			CALIBRATE			Positive	1.00	1.00 ± 0.10	1.00 ± 0.10	0.50 ± 0.30
21	2011-04-29 14:02			CALIBRATE			Positive	1.00	1.20 ± 0.10	1.20 ± 0.10	<LOD: 0.60
22	2011-04-29 14:03			CALIBRATE			Positive	1.00	1.00 ± 0.10	1.00 ± 0.10	0.40 ± 0.20
23	2011-04-29 14:03			CALIBRATE			Positive	1.00	1.00 ± 0.10	1.00 ± 0.10	0.50 ± 0.20
24	2011-04-29 14:05	CURB	CONCRETE	A		WHITE	Negative	1.00	<LOD: 0.14	<LOD: 0.14	<LOD: 1.35
25	2011-04-29 14:05	CURB	CONCRETE	A		WHITE	Negative	1.00	<LOD: 0.03	<LOD: 0.03	<LOD: 1.35
26	2011-04-29 14:06	WINDOW	METAL	A		WHITE	Negative	1.00	<LOD: 0.76	<LOD: 0.76	<LOD: 3.85
27	2011-04-29 14:06	WINDOW	METAL	A		WHITE	Negative	1.00	<LOD: 0.19	<LOD: 0.19	<LOD: 3.19
28	2011-04-29 14:09	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.15	<LOD: 0.15	<LOD: 3.89
29	2011-04-29 14:09	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.62	<LOD: 0.62	<LOD: 2.31
30	2011-04-29 14:10	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.38	<LOD: 0.38	<LOD: 2.89
31	2011-04-29 14:11	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.16	<LOD: 0.16	<LOD: 3.80
32	2011-04-29 14:11	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.46	<LOD: 0.46	<LOD: 3.02
33	2011-04-29 14:12	WINDOW	METAL	A		WHITE	Negative	1.00	<LOD: 0.65	<LOD: 0.65	<LOD: 3.73
34	2011-04-29 14:12	WINDOW	METAL	A		WHITE	Negative	1.00	<LOD: 0.19	<LOD: 0.19	<LOD: 3.76
35	2011-04-29 14:13	WINDOW	METAL	A		WHITE	Negative	1.00	<LOD: 0.23	<LOD: 0.23	<LOD: 3.60
36	2011-04-29 14:13	WINDOW	METAL	A		WHITE	Negative	1.00	<LOD: 0.32	<LOD: 0.32	<LOD: 3.92
37	2011-04-29 14:13	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.72	<LOD: 0.72	<LOD: 3.79
38	2011-04-29 14:13	WINDOW LENTAL	METAL	A		WHITE	Negative	1.00	<LOD: 0.40	<LOD: 0.40	<LOD: 3.70
39	2011-04-29 14:14	TRIM	WOOD	A		WHITE	Positive	1.00	1.30 ± 0.30	0.90 ± 0.20	1.30 ± 0.30
40	2011-04-29 14:14	TRIM	WOOD	A		WHITE	Positive	1.00	1.40 ± 0.40	1.20 ± 0.30	1.40 ± 0.40
41	2011-04-29 14:15	TRIM	WOOD	B		WHITE	Negative	1.00	0.60 ± 0.30	0.60 ± 0.30	1.00 ± 0.60
42	2011-04-29 14:15	TRIM	WOOD	B		WHITE	Negative	1.00	1.30 ± 0.30	1.20 ± 0.20	1.30 ± 0.30
43	2011-04-29 14:16	TRIM	WOOD	C		WHITE	Positive	1.00	1.60 ± 0.60	1.60 ± 0.70	1.60 ± 0.60
44	2011-04-29 14:16	TRIM	WOOD	D		WHITE	Positive	1.00	1.50 ± 0.50	1.50 ± 0.50	1.50 ± 0.50
45	2011-04-29 14:23	WINDOW	METAL	B		WHITE	Negative	1.00	<LOD: 0.83	<LOD: 0.83	<LOD: 3.77
46	2011-04-29 14:23	WINDOW	METAL	B		WHITE	Negative	1.00	<LOD: 0.13	<LOD: 0.13	<LOD: 3.80
47	2011-04-29 14:23	WINDOW	METAL	B		WHITE	Negative	1.00	<LOD: 0.53	<LOD: 0.53	<LOD: 2.98
48	2011-04-29 14:23	WINDOW	METAL	B		WHITE	Negative	1.00	<LOD: 0.61	<LOD: 0.61	<LOD: 2.60
49	2011-04-29 14:24	WINDOW	METAL	B		WHITE	Negative	1.00	<LOD: 0.32	<LOD: 0.32	<LOD: 3.76
50	2011-04-29 14:25	WINDOW LENTALS	METAL	B		WHITE	Negative	1.00	<LOD: 0.28	<LOD: 0.28	<LOD: 4.20
51	2011-04-29 14:25	WINDOW LENTALS	METAL	B		WHITE	Negative	1.00	<LOD: 0.42	<LOD: 0.42	<LOD: 3.75
52	2011-04-29 14:25	WINDOW LENTALS	METAL	B		WHITE	Negative	1.00	<LOD: 0.10	<LOD: 0.10	<LOD: 4.01
53	2011-04-29 14:27	WINDOW LENTALS	METAL	B		WHITE	Negative	1.00	<LOD: 0.66	<LOD: 0.66	<LOD: 3.90
54	2011-04-29 14:27	WINDOW LENTALS	METAL	B		WHITE	Negative	1.00	<LOD: 0.81	<LOD: 0.81	<LOD: 3.57
55	2011-04-29 14:28	NE OVERHEAD DOOR	METAL	C		WHITE	Negative	1.00	<LOD: 0.48	<LOD: 0.48	<LOD: 2.40
56	2011-04-29 14:28	NE OVERHEAD DOOR	METAL	C		WHITE	Negative	1.00	0.40 ± 0.20	0.40 ± 0.20	0.80 ± 0.40
57	2011-04-29 14:29	SE OVERHEAD DOOR	METAL	C		WHITE	Negative	1.00	<LOD: 0.75	<LOD: 0.75	<LOD: 0.75
58	2011-04-29 14:29	SE OVERHEAD DOOR	METAL	C		WHITE	Negative	1.00	<LOD: 0.20	<LOD: 0.20	<LOD: 1.95

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

**XRF Results**  
**Woodward Armory**  
**2100 First Street**  
**Woodward, Oklahoma 73801**

Index	Date	Component	Substrate	Side	Condition	Color	Results	Yellow Level	PbC	PbB	PbK
59	2011-04-29 14:29	SE OVERHEAD DOOR	METAL	C		WHITE	Negative	1.00	< LOD : 1.84	< LOD : 0.44	< LOD : 1.84
60	2011-04-29 14:30	CORNER SHEILDS OVER BRICK	METAL	C		WHITE	Negative	1.00	0.60 ± 0.30	0.60 ± 0.30	< LOD : 1.33
61	2011-04-29 14:30	CORNER SHEILDS OVER BRICK	METAL	C		WHITE	Negative	1.00	< LOD : 0.65	< LOD : 0.65	< LOD : 3.11
62	2011-04-29 14:31	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.53	< LOD : 0.55	< LOD : 3.51
63	2011-04-29 14:32	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.40	< LOD : 0.40	< LOD : 3.60
64	2011-04-29 14:32	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.46	< LOD : 0.46	< LOD : 3.51
55	2011-04-29 14:32	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.57	< LOD : 0.57	< LOD : 3.71
66	2011-04-29 14:32	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.88	< LOD : 0.88	< LOD : 3.77
67	2011-04-29 14:32	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.40	< LOD : 0.40	< LOD : 3.94
68	2011-04-29 14:32	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.82	< LOD : 0.82	< LOD : 3.71
69	2011-04-29 14:33	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.90	< LOD : 0.90	< LOD : 2.92
70	2011-04-29 14:33	WINDOW	METAL	D		WHITE	Negative	1.00	< LOD : 0.22	< LOD : 0.22	< LOD : 4.05
71	2011-04-29 14:33	WINDOW LENTALS	METAL	D		WHITE	Negative	1.00	< LOD : 0.44	< LOD : 0.44	< LOD : 3.97
72	2011-04-29 14:33	WINDOW LENTALS	METAL	D		WHITE	Negative	1.00	< LOD : 0.82	< LOD : 0.82	< LOD : 3.79
73	2011-04-29 14:34	WINDOW LENTALS	METAL	D		WHITE	Negative	1.00	< LOD : 0.54	< LOD : 0.54	< LOD : 3.73
74	2011-04-29 14:34	WINDOW LENTALS	METAL	D		WHITE	Negative	1.00	< LOD : 0.32	< LOD : 0.32	< LOD : 3.89
75	2011-04-29 14:34	WINDOW LENTALS	METAL	D		WHITE	Negative	1.00	< LOD : 0.83	< LOD : 0.83	< LOD : 3.43
76	2011-04-29 14:34	WINDOW LENTALS	METAL	D		WHITE	Negative	1.00	< LOD : 0.52	< LOD : 0.52	< LOD : 3.71
77	2011-04-29 14:41	WALL	CONCRETE	RM 1 A		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.80
78	2011-04-29 14:41	WALL	CONCRETE	RM 1 B		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
79	2011-04-29 14:42	WALL	CONCRETE	RM 1 D		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
80	2011-04-29 14:42	WALL	CONCRETE	RM 1 C		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
81	2011-04-29 14:42	FLOOR	CONCRETE	RM 1 C		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
82	2011-04-29 14:43	FLOOR	CONCRETE	RM 1 C		RED	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.35
83	2011-04-29 14:43	FLOOR	CONCRETE	RM 1 C		YELLOW	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 2.45
84	2011-04-29 14:44	COORK BOARD	CONCRETE	RM 1 D		YELLOW	Negative	1.00	< LOD : 0.04	< LOD : 0.04	< LOD : 2.10
85	2011-04-29 14:44	COORK BOARD	CONCRETE	RM 1 D		BLUE	Negative	1.00	< LOD : 0.07	< LOD : 0.07	< LOD : 2.20
86	2011-04-29 14:44	CONSESSION WINDOW	CONCRETE	RM 1 B		BLUE	Negative	1.00	< LOD : 0.66	< LOD : 0.66	< LOD : 2.00
87	2011-04-29 14:45	CONSESSION WINDOW	CONCRETE	RM 1 B		RED	Negative	1.00	< LOD : 0.43	< LOD : 0.43	< LOD : 1.20
88	2011-04-29 14:45	CONSESSION WINDOW	CONCRETE	RM 1 B		BLACK	Negative	1.00	< LOD : 0.60	< LOD : 0.60	< LOD : 2.10
89	2011-04-29 14:46	WINDOW	CONCRETE	RM 2 A		TAN	Negative	1.00	< LOD : 0.19	< LOD : 0.19	< LOD : 3.54
90	2011-04-29 14:47	WINDOW	CONCRETE	RM 3 A		TAN	Negative	1.00	< LOD : 0.11	< LOD : 0.11	< LOD : 3.90
91	2011-04-29 14:47	WINDOW	CONCRETE	RM 4 A		RED	Negative	1.00	< LOD : 0.16	< LOD : 0.16	< LOD : 4.05
92	2011-04-29 14:48	WALL	CONCRETE	RM 4 A		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.05
93	2011-04-29 14:48	WALL	CONCRETE	RM 4 A		WHITE	Negative	1.00	< LOD : 0.04	< LOD : 0.04	< LOD : 3.90
94	2011-04-29 14:48	WALL	CONCRETE	RM 4 b		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.95
95	2011-04-29 14:49	WALL	CONCRETE	RM 4 c		WHITE	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
96	2011-04-29 14:49	WALL	CONCRETE	RM 4 c		RED	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.65
97	2011-04-29 14:50	WALL	CONCRETE	RM 4 c		RED	Negative	1.00	< LOD : 0.13	< LOD : 0.13	< LOD : 3.51
98	2011-04-29 14:50	WALL	CONCRETE	RM 5 c		RED	Negative	1.00	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20



**XRF Results**  
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**2100 First Street**  
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Lot#	Time	Component	Substrate	Std	Condition	Color	Results	Action Level	Pb	Pbk
99	2011-04-29 14:51	WALL	CONCRETE	RM5 A		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 1.05
100	2011-04-29 14:51	WALL	CONCRETE	RM5 B		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 1.95
101	2011-04-29 14:51	WALL	CONCRETE	RM5 C		BLUE	Negative	1.00	< LOD : 0.08	< LOD : 1.87
102	2011-04-29 14:52	WALL	CONCRETE	RM5 D		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 1.05
103	2011-04-29 14:52	WALL	CONCRETE	RM4 D		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 1.20
104	2011-04-29 14:52	WALL	CONCRETE	RM3 D		BLUE	Negative	1.00	< LOD : 0.04	< LOD : 1.20
105	2011-04-29 14:53	WALL	CONCRETE	RM3 A		BLUE	Negative	1.00	< LOD : 0.12	< LOD : 1.80
106	2011-04-29 14:53	WALL	CONCRETE	RM3 B		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 1.65
107	2011-04-29 14:53	WALL	CONCRETE	RM3		BLUE	Negative	1.00	< LOD : 0.03	< LOD : 1.05
108	2011-04-29 14:54	WALL	CONCRETE	RM3		BLUE	Negative	1.00	0.12 ± 0.05	< LOD : 0.75
109	2011-04-29 14:57	WINDOW	METAL	RM 5B		BLUE	Negative	1.00	< LOD : 0.21	< LOD : 3.48
110	2011-04-29 14:57	WINDOW	METAL	RM 5B		BLUE	Negative	1.00	< LOD : 0.14	< LOD : 3.28
111	2011-04-29 14:58	WINDOW	METAL	RM 6B		BLUE	Negative	1.00	< LOD : 0.08	< LOD : 3.30
112	2011-04-29 14:58	WINDOW	METAL	RM 6B		BLUE	Negative	1.00	< LOD : 0.11	< LOD : 3.90
113	2011-04-29 14:59	WINDOW	METAL	RM 6B		BLUE	Negative	1.00	< LOD : 0.06	< LOD : 3.72
114	2011-04-29 14:59	WALL	CONCRETE	RM 6B		WHITE	Negative	1.00	0.15 ± 0.09	< LOD : 1.20
115	2011-04-29 14:59	WALL	CONCRETE	RM 6C		WHITE	Negative	1.00	0.27 ± 0.11	< LOD : 1.20
116	2011-04-29 15:01	WOODEN DOOR	WOOD	RM 6C		BLUE	Negative	1.00	< LOD : 0.45	< LOD : 1.79
117	2011-04-29 15:01	WOODEN DOOR TRIM	WOOD	RM 6C		BLUE	Negative	1.00	< LOD : 0.55	< LOD : 2.40
118	2011-04-29 15:02	NO SMOKING	CONCRETE	RM 7C		RED/WHITE	Negative	1.00	0.16 ± 0.06	< LOD : 1.20
119	2011-04-29 15:03	NO SMOKING	CONCRETE	RM 7D		RED/WHITE	Negative	1.00	0.11 ± 0.06	< LOD : 1.35
120	2011-04-29 15:03	NO SMOKING	CONCRETE	RM 7A		RED/WHITE	Positive	1.00	0.60 ± 0.10	1.50 ± 0.50
121	2011-04-29 15:05	WALL	CONCRETE	RM 7A		BLACK	Negative	1.00	0.17 ± 0.06	< LOD : 1.20
122	2011-04-29 15:05	WALL	CONCRETE	RM 7B		BLACK	Negative	1.00	0.15 ± 0.05	< LOD : 1.05
123	2011-04-29 15:05	WALL	CONCRETE	RM 7C		BLACK	Negative	1.00	0.30 ± 0.08	< LOD : 1.20
124	2011-04-29 15:06	OVERHEAD DOOR	CONCRETE	RM 7C		GREY	Negative	1.00	< LOD : 0.52	< LOD : 2.25
125	2011-04-29 15:06	OVERHEAD DOOR TRIM	CONCRETE	RM 7C		GREY	Negative	1.00	< LOD : 0.18	< LOD : 3.30
126	2011-04-29 15:06	OVERHEAD DOOR TRACK	CONCRETE	RM 7C		GREY	Negative	1.00	< LOD : 0.16	< LOD : 4.20
127	2011-04-29 15:07	OVERHEAD DOOR TRACK	CONCRETE	RM 7D		GREY	Negative	1.00	< LOD : 0.39	< LOD : 2.10
128	2011-04-29 15:08	OVERHEAD DOOR	CONCRETE	RM 7D		GREY	Negative	1.00	< LOD : 0.45	< LOD : 2.17
129	2011-04-29 15:08	OVERHEAD DOOR	CONCRETE	RM 7D		BLUE	Negative	1.00	< LOD : 0.57	< LOD : 1.95
130	2011-04-29 15:09	OVERHEAD DOOR	CONCRETE	RM 8B		BLUE	Negative	1.00	< LOD : 0.79	< LOD : 1.96
131	2011-04-29 15:09	OVERHEAD DOOR TRACK	CONCRETE	RM 8C		BLUE	Negative	1.00	< LOD : 0.09	< LOD : 3.73
132	2011-04-29 15:09	OVERHEAD DOOR TRIM	CONCRETE	RM 8C		BLUE	Negative	1.00	< LOD : 0.72	< LOD : 2.40
133	2011-04-29 15:11	CEILING	CONCRETE	RM 8C		GREY	Negative	1.00	< LOD : 0.03	< LOD : 1.50
134	2011-04-29 15:11	SAFE DOOR	METAL	RM 8C		GREY	Negative	1.00	< LOD : 0.39	< LOD : 3.60
135	2011-04-29 15:11	SAFE DOOR JAMB	METAL	RM 8C		GREY	Negative	1.00	< LOD : 0.31	< LOD : 4.03
136	2011-04-29 15:12	SAFE DOOR JAMB	METAL	RM 8C		GRFY	Negative	1.00	< LOD : 0.45	< LOD : 3.90
137	2011-04-29 15:12	SAFE DOOR JAMB	METAL	RM 9D		GREY	Negative	1.00	< LOD : 0.41	< LOD : 3.88
138	2011-04-29 15 14	WINDOW	METAL	RM 9D		WHITE	Negative	1.00	< LOD : 0.15	< LOD : 3.72

**XRF Results**  
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Index	Date	Component	Substrate	Site	Condition	Color	Revolts	Action Level (Ppb)	PLI	Pbk
139	2011-04-29 15:14	WINDOW	METAL	RM 9D	WHITE		Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 3.92
140	2011-04-29 15:14	WINDOW	METAL	RM 9D	WHITE		Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 3.75
141	2011-04-29 15:14	WINDOW	METAL	RM 9D	WHITE		Negative	< LOD : 0.14	< LOD : 0.14	< LOD : 3.66
142	2011-04-29 15:15	TRIM	CONCRETE	RM 9D	WHITE		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.90
143	2011-04-29 15:15	TRIM	CONCRETE	RM 9A	WHITE		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.95
144	2011-04-29 15:15	TRIM	CONCRETE	RM 9A	GREEN		Negative	< LOD : 0.75	< LOD : 0.03	< LOD : 0.75
145	2011-04-29 15:16	TRIM	CONCRETE	RM 9D	GREEN		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.20
146	2011-04-29 15:16	CEILING	CONCRETE	RM 9D	GREY		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.94
147	2011-04-29 15:19	CABINET	WOOD	RM 11C	GREY		Negative	< LOD : 0.46	< LOD : 0.46	< LOD : 2.44
148	2011-04-29 15:20	CABINET	WOOD	RM 11B	GREY		Negative	< LOD : 0.16	< LOD : 0.16	< LOD : 2.13
149	2011-04-29 15:20	WALL	CONCRETE	RM 11C	WHITE		Negative	< LOD : 0.75	0.16 ± 0.05	< LOD : 0.75
150	2011-04-29 15:21	WALL	CONCRETE	RM 11	WHITE		Negative	< LOD : 0.04	< LOD : 0.04	< LOD : 1.20
151	2011-04-29 15:21	WINDOW	METAL	RM 11	WHITE		Negative	< LOD : 0.08	< LOD : 0.08	< LOD : 3.90
152	2011-04-29 15:22	CEILING	METAL	RM 12	BLUE		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 1.34
153	2011-04-29 15:22	CEILING	METAL	RM 13	BLUE		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.55
154	2011-04-29 15:23	CEILING	METAL	RM 14	BLUE		Negative	< LOD : 0.03	< LOD : 0.03	< LOD : 0.83
155	2011-04-29 15:23	WINDOW	METAL	RM 14	TAN		Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 3.58
156	2011-04-29 15:24	WINDOW	CONCRETE	RM 15A	WHITE		Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 1.88
157	2011-04-29 15:24	WINDOW	CONCRETE	RM 15B	WHITE		Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 2.04
158	2011-04-29 15:25	WINDOW	CONCRETE	RM 15C	WHITE		Negative	< LOD : 0.09	< LOD : 0.09	< LOD : 2.14
159	2011-04-29 15:25	WINDOW	CONCRETE	RM 15D	WHITE		Negative	< LOD : 0.07	< LOD : 0.07	< LOD : 1.94
160	2011-04-29 15:25	WINDOW	METAL	RM 15D	WHITE		Negative	< LOD : 0.06	< LOD : 0.06	< LOD : 3.83
161	2011-04-29 15:26	WINDOW	METAL	RM 15D	WHITE		Negative	< LOD : 0.30	< LOD : 0.30	< LOD : 4.20
162	2011-04-29 15:26	WINDOW	METAL	RM 15D	WHITE		Negative	< LOD : 0.30	< LOD : 0.30	< LOD : 4.20
163	2011-04-29 15:27	DOOR	METAL	#1	BLUE		Negative	< LOD : 0.48	< LOD : 0.48	< LOD : 3.55
164	2011-04-29 15:27	DOOR	METAL	#2	BLUE		Negative	< LOD : 0.48	< LOD : 0.48	< LOD : 3.55
165	2011-04-29 15:28	DOOR	METAL	#3	BLUE		Negative	< LOD : 0.38	< LOD : 0.38	< LOD : 3.60
166	2011-04-29 15:28	DOOR	METAL	#3	BLUE		Negative	< LOD : 0.22	< LOD : 0.22	< LOD : 3.47
167	2011-04-29 15:28	DOOR	METAL	#3	BLUE		Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 3.87
168	2011-04-29 15:28	DOOR	METAL	#3	BLUE		Negative	< LOD : 0.10	< LOD : 0.10	< LOD : 3.67
169	2011-04-29 15:29	DOOR	METAL	#4	BLUE		Negative	< LOD : 0.19	< LOD : 0.19	< LOD : 3.74
170	2011-04-29 15:29	DOOR	METAL	#5	BLUE		Negative	< LOD : 0.18	< LOD : 0.18	< LOD : 3.55
171	2011-04-29 15:29	DOOR	METAL	#6	BLUE		Negative	< LOD : 0.27	< LOD : 0.27	< LOD : 3.53
172	2011-04-29 15:29	DOOR	METAL	#6	BLUE		Nail	< LOD : 0.25	< LOD : 0.25	< LOD : 7.13
173	2011-04-29 15:30	DOOR	METAL	#6	BLUE		Negative	< LOD : 0.16	< LOD : 0.16	< LOD : 3.35
174	2011-04-29 15:30	DOOR	METAL	#7	WHITE		Negative	< LOD : 0.46	< LOD : 0.46	< LOD : 3.36
175	2011-04-29 15:30	DOOR	METAL	#8	BLUE		Negative	< LOD : 0.13	< LOD : 0.13	< LOD : 3.48
176	2011-04-29 15:31	DOOR	METAL	#9	BLUE		Negative	< LOD : 0.31	< LOD : 0.31	< LOD : 3.62
177	2011-04-29 15:31	DOOR	METAL	#10	BLUE		Negative	< LOD : 0.60	< LOD : 0.60	< LOD : 3.75
178	2011-04-29 15:31	DOOR	METAL	#11	BLUE		Negative	< LOD : 0.16	< LOD : 0.16	< LOD : 3.57
179	2011-04-29 15:31	DOOR	METAL	#12	BLUE		Negative	< LOD : 0.11	< LOD : 0.11	< LOD : 3.60
180	2011-04-29 15:31	DOOR	METAL	#12	BLUE		Negative	< LOD : 0.13	< LOD : 0.13	< LOD : 3.48

**XRF Results**  
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Index	Time	Component	Substrate	Side	Condition	Color	Results	Acqum Expd	PLI	PLK
179	2011-04-29 15:32	DOOR	METAL	#13		BLUE	Negative	1.00	< LOD : 0.60	< LOD : 3.79
180	2011-04-29 15:32	DOOR	METAL	#14		BLUE	Negative	1.00	< LOD : 0.09	< LOD : 3.34
181	2011-04-29 15:32	DOOR	METAL	#15		BLUE	Negative	1.00	< LOD : 0.15	< LOD : 3.38
182	2011-04-29 15:33	DOOR	METAL	#16		BLUE	Negative	1.00	< LOD : 0.12	< LOD : 3.47
183	2011-04-29 15:34	DOOR JAMB	METAL	#1		BLUE	Negative	1.00	< LOD : 0.08	< LOD : 3.98
184	2011-04-29 15:34	DOOR JAMB	METAL	#2		BLUE	Negative	1.00	< LOD : 0.25	< LOD : 3.32
185	2011-04-29 15:34	DOOR JAMB	METAL	#3		BLUE	Negative	1.00	< LOD : 0.18	< LOD : 3.57
186	2011-04-29 15:34	DOOR JAMB	METAL	#4		BLUE	Negative	1.00	< LOD : 0.10	< LOD : 3.75
187	2011-04-29 15:35	DOOR JAMB	METAL	#5		BLUE	Negative	1.00	< LOD : 0.10	< LOD : 3.43
188	2011-04-29 15:35	DOOR JAMB	METAL	#6		BLUE	Negative	1.00	< LOD : 0.18	< LOD : 3.45
189	2011-04-29 15:36	DOOR JAMB	METAL	#8		BLUE	Negative	1.00	< LOD : 0.16	< LOD : 3.74
190	2011-04-29 15:37	DOOR JAMB	METAL	#10		BLUE	Negative	1.00	< LOD : 0.30	< LOD : 3.67
191	2011-04-29 15:40	DOOR JAMB	METAL	#11		BLUE	Negative	1.00	< LOD : 0.15	< LOD : 3.40
192	2011-04-29 15:40	DOOR JAMB	METAL	#12		BLUE	Negative	1.00	< LOD : 0.26	< LOD : 3.75
193	2011-04-29 15:41	DOOR JAMB	METAL	#13		BLUE	Negative	1.00	< LOD : 0.28	< LOD : 3.62
194	2011-04-29 15:41	DOOR JAMB	METAL	#14		BLUE	Negative	1.00	< LOD : 0.09	< LOD : 3.56
195	2011-04-29 15:41	DOOR JAMB	METAL	#15		BLUE	Negative	1.00	< LOD : 0.09	< LOD : 4.05
196	2011-04-29 15:42	DOOR JAMB	METAL	#16		BLUE	Negative	1.00	< LOD : 0.09	< LOD : 3.95
197	2011-04-29 15:42	DOOR JAMB	METAL	#16		BLUE	Negative	1.00	< LOD : 0.60	< LOD : 3.61
198	2011-04-29 15:42	DOOR JAMB	METAL	#16		BLUE	Negative	1.00	< LOD : 0.34	< LOD : 3.43
199	2011-04-29 15:42	DOOR JAMB	METAL	#16		BLUE	Negative	1.00	< LOD : 0.45	< LOD : 2.11
200	2011-04-29 15:43		CALIBRATE				Negative	1.00	1.10 ± 0.10	< LOD : 0.60
201	2011-04-29 15:43		CALIBRATE				Positive	1.00	1.00 ± 0.10	0.50 ± 0.20
202	2011-04-29 15:43		CALIBRATE				Positive	1.00	1.10 ± 0.10	< LOD : 0.60

1601 SW 89th St. Ste. A-100  
Oklahoma City, OK 73159

# Marshall Environmental Management, Inc. Chain Of Custody

Phone: (405) 616-0401  
Fax: (405) 681-6753  
marshenv@swbell.net

194700

PROJECT INFORMATION				INVOICE TO				REFUPI TO			
Project Id.	0045-LBP-042911	Client Company	Marshall Environmental Management Inc.	Client Company		Client Company		Client Company		Client Company	
Project Name		Attention		Attention		Attention		Attention		Attention	
Project Address		Invoice To Address		Invoice To Address		Invoice To Address		Invoice To Address		Invoice To Address	
Site Contact		Phone Number		Phone Number		Phone Number		Phone Number		Phone Number	
Phone Number		Fax Number		Fax Number		Fax Number		Fax Number		Fax Number	
Mobile Number		Mobile Number		Mobile Number		Mobile Number		Mobile Number		Mobile Number	
Email		Email Address		Email Address		Email Address		Email Address		Email Address	

Lab #	Sample Date	Build #	Sample Location (Room, Bedroom, etc)	Specific Sample Area	Sample Matrix	Sample Matrix	Sample Type	Volume / Size	Unit	Analyte Parameters
1	4/29/2011	1	Room 1	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
2	4/29/2011	2	Room 2	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
3	4/29/2011	3	Room 3	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
4	4/29/2011	4	Room 4	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
5	4/29/2011	5	Room 5	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
6	4/29/2011	6	Room 6	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
7	4/29/2011	7	Room 7	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
8	4/29/2011	8	Room 8	NA	Dust	Wipe	On / Off	108-in <sup>2</sup>		Total Pb
9	4/29/2011	8-W	Room 8 - West	West	Dust	Wipe	On / Off	1-ft <sup>2</sup>		Total Pb
10	4/29/2011	8-C	Room 8 - Center	Center	Dust	Wipe	On / Off	1-ft <sup>2</sup>		Total Pb

Collected By	James Marshall	Date	4/29/2011	Subsiquered By	James Marshall	Date	5/2/2011
Received By	<i>[Signature]</i>	Time	16:00	Requested By	<i>[Signature]</i>	Time	
Condition Upon Receipt		Date	5-2-11	Requested By		Time	
Sample Name		Date	2:18	Requested By		Time	
Sample Size		Condition Upon Receipt		Requested By		Time	
Sample Date		Sample Name		Requested By		Time	
Sample Time		Sample Name		Requested By		Time	
Sample Location		Sample Name		Requested By		Time	
Sample Matrix		Sample Name		Requested By		Time	
Sample Type		Sample Name		Requested By		Time	
Sample Volume		Sample Name		Requested By		Time	
Sample Unit		Sample Name		Requested By		Time	
Sample Analyte		Sample Name		Requested By		Time	
Sample Parameter		Sample Name		Requested By		Time	
Sample Method		Sample Name		Requested By		Time	
Sample Media		Sample Name		Requested By		Time	
Sample Page	1	Sample Name		Requested By		Time	2

# Marshall Environmental Management, Inc. Chain Of Custody

Phone: (405) 616-0401  
Fax: (405) 681-6753  
marshenv@swbell.net

194700

PROJECT INFORMATION			INVOICE TO			REPORT TO		
Project Id.	0036-LBP-032911	Client Company	Marshall Environmental Management Inc.			Client Company		
Project Name		Attention				Attention		
Project Address		Project To Address				Address		
Site Contact		Phone Number				Phone Number		
Phone Number		Fax Number				Fax Number		
Mobile Number		Mobile Number				Mobile Number		
e-mail		Internal Address				e-mail Address		

Lot Id	Sample Date	Field Id	Sample Location (Room, Bedroom, etc.)	Specific Sample Area	Sample Matrix	Sample Media	Sample Type	Volume (L)	Unit	Analysis Parameters
11	4/29/2011	8-E	Room 8 - East	East	Dust	Wipe	Ch NA	1-ft <sup>2</sup>		Total Pb
12	4/29/2011	9	Room 9	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb
13	4/29/2011	10	Room 10	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb
14	4/29/2011	11	Room 11	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb
15	4/29/2011	12	Room 12	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb
16	4/29/2011	13	Room 13	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb
17	4/29/2011	14	Room 14	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb
18	4/29/2011	15	Room 15	NA	Dust	Wipe	Ch NA	108-in <sup>2</sup>		Total Pb

Collected By	Jamie Marshall	Date	4/29/2011	Requested By	Jamie Marshall	Date	5/2/2011
Received By	Cecelia Carrick	Time	16:00	Requested by	Jamie Marshall	Time	
Turn Around Time	Standard	5-7 Business Days		Requested by	Jamie Marshall	Time	
	Fast	Next Day					
	Immediate	Same Day					

Evaluation Upon Receipt		Method of Shipments	
Sample Notes			

Matrix	Air	MV	MP	ST	SW	TL
	Aqueous					
	Bulk					
	Sludge					
	Soil					
	Solid					
Page	2	of	2			



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

## Environmental Chemistry Analysis Report

**QuanTEM Set ID:** 194700  
**Date Received:** 05/02/11  
**Received By:** Barbara Holder  
**Date Sampled:**  
**Time Sampled:**  
**Analyst:** BM  
**Date of Report:** 5/6/2011

**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.:** 0045-LBP-042911

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	65.5	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
002	2	Wipe	Lead	124	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
003	3	Wipe	Lead	127	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
004	4	Wipe	Lead	458	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
005	5	Wipe	Lead	108	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
006	6	Wipe	Lead	75.4	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
007	7	Wipe	Lead	380	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
008	8	Wipe	Lead	197	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
009	8-W	Wipe	Lead	161	16	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
010	8-C	Wipe	Lead	236	16	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
011	8-E	Wipe	Lead	197	16	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
012	9	Wipe	Lead	255	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
013	10	Wipe	Lead	434	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
014	11	Wipe	Lead	323	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
015	12	Wipe	Lead	120	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
016	13	Wipe	Lead	263	21.3	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)
017	14	Wipe	Lead	237	16	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)

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.

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



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

## Environmental Chemistry Analysis Report

**QuanTEM Set ID:** 194700  
**Date Received:** 05/02/11  
**Received By:** Barbara Holder  
**Date Sampled:**  
**Time Sampled:**  
**Analyst:** BM  
**Date of Report:** 5/6/2011

**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.:** 0045-LBP-042911

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	15	Wipe	Lead	42.5	16	ug/sq. Ft.	05/06/11 14:00	W EPA 7420 (1)

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.

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: 8741  
Test: Lead

Date: 5/6/2011  
Matrix: Wipe

Lab Number: 194700  
Approved By: Benton Miller  
Date Approved: 5/6/2011

## Notes:

## Blank Data:

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

## Standards Data:

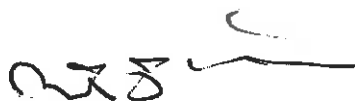
Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.6	5.5
FCV	4.5	4.8	5.5
ICV	0.8	1	1.2
RLVS	0.256	0.342	0.384

## Duplicate Data:

## Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.384	5.233	97.2	5.549	103.1	5.9

Authorized Signature: \_\_\_\_\_

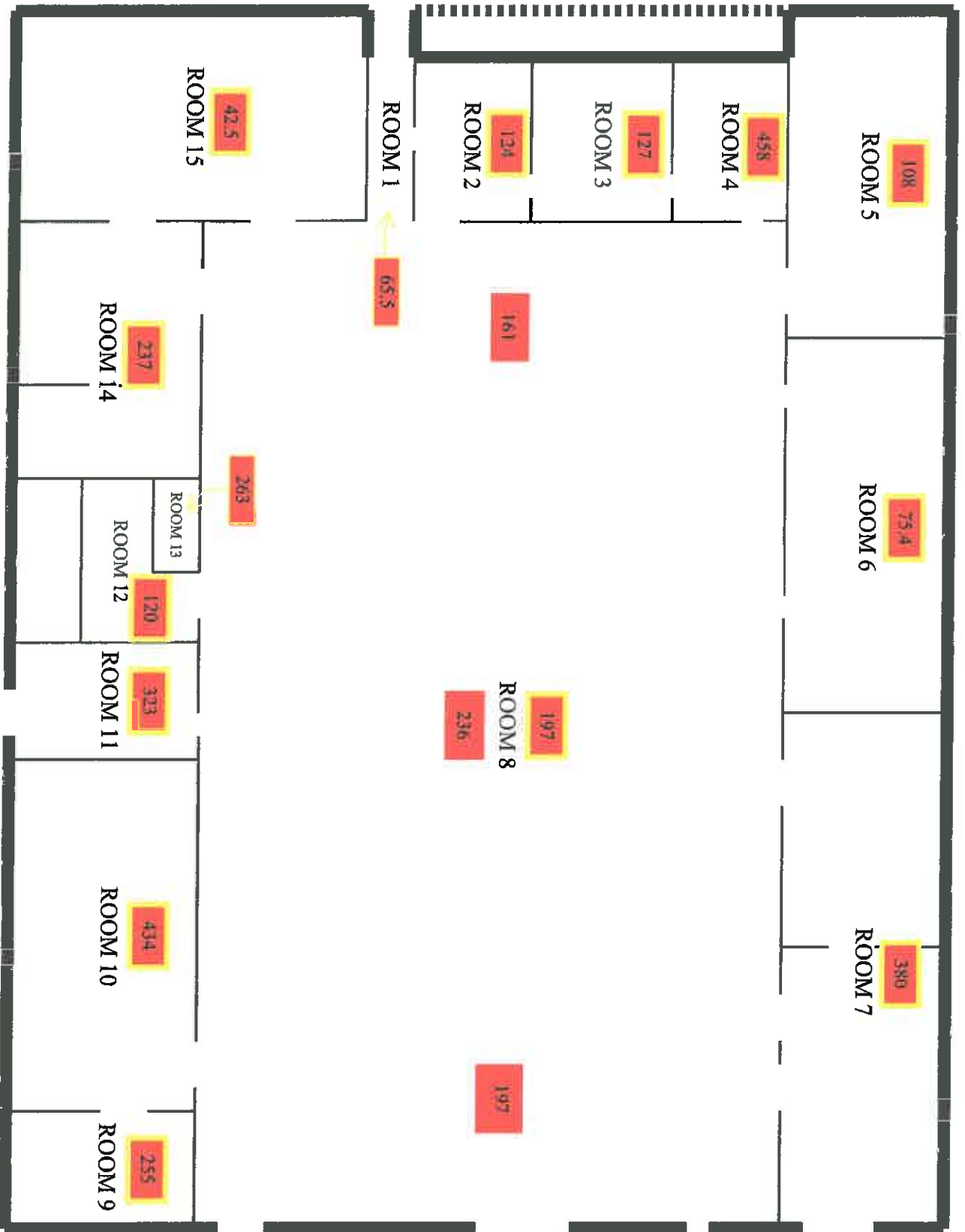


Benton Miller, Analyst



# WOODWARD ARMORY

LEAD CONCENTRATIONS IN  
SURFACE DUST



SIDE A

SIDE B

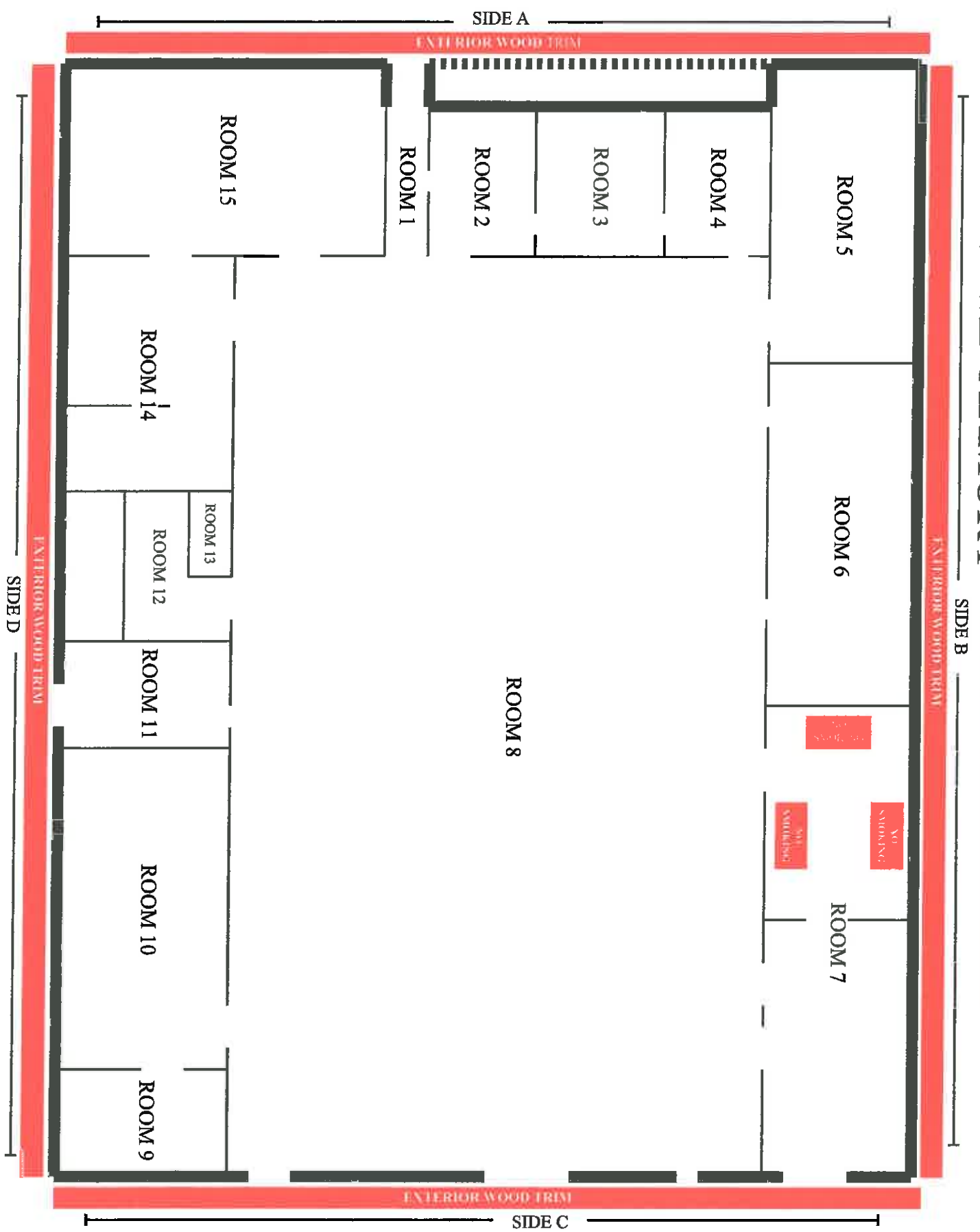
SIDE C

SIDE D

COMPOSITE  
SAMPLE

# WOODWARD ARMORY

LEAD-BASE PAINTED SURFACES



# Department of Environmental Quality

*(This is a certification.)*

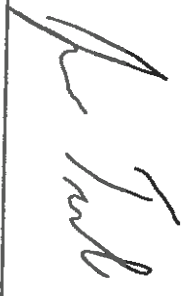
## MARSHALL ENVIRONMENTAL MANAGEMENT FIRM

*(has met the specifications of the Oklahoma Lead-Based Paint Management Act and is certified as a Lead-Based Firm)*

Certification #: OKFIRM11160

*(The certification is valid from the date of issuance and expires as provided.)*  
Issued on: **4/1/2011** Expires on: **3/31/2012**

Division Director  
Air Quality Division



*(Handwritten signature of the Environmental Programs Manager)*  
Environmental Programs Manager  
Air Quality Division

# Department of Environmental Quality

*The Department shall*

**CHARLES MARSHALL**

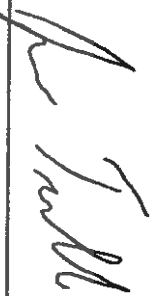
*inspect the specifications for, establish and Report Lead Assessment for  
and certified in a Lead Based Paint*

**INSPECTOR/RISK ASSESSOR**

Certification #: OKRASR13418

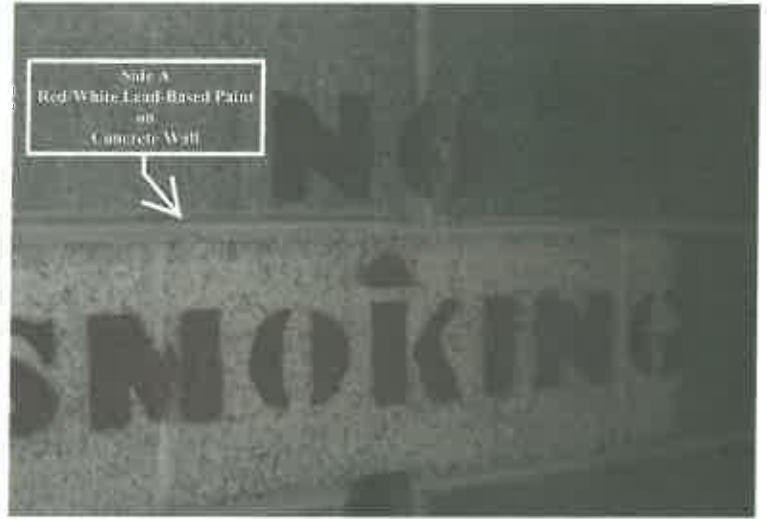
*This certificate is valid from the date of issuance and expires as provided by law*  
Issued on: **4/1/2011** Expires on: **3/31/2012**

Division Director  
Air Quality Division



Environmental Programs Manager  
Air Quality Division





## SCOPES OF WORK

**STATEMENT OF WORK**  
**For**  
**Remediation of Lead and Asbestos Contamination**  
**At The Former Woodward National Guard Armory**

The Oklahoma Department of Environmental Quality (DEQ) is requesting a work plan and cost estimate for remediation services at a former National Guard armory located in Woodward, Oklahoma. This statement of work (SOW) describes the abatement of lead-based paint, remediation of lead contaminated dust, and removal and proper disposal of asbestos containing material. 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 floor plan map of the Woodward Armory is attached for review (**Attachment 1**).

The building is located at **2100 First Street, Woodward, Oklahoma 73801**. The square footage is approximately **11,216 FT<sup>2</sup>**. **The building does have available water and electricity to use during remediation.**

**SPECIAL PROVISIONS:**

1. Work Schedule: The Contractor shall schedule all work to be complete within forty five (45) calendar 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. Contractor shall not cause damage to building structures, property, walls, fixtures, etc. during remediation/abatement process unless required for abatement and approval is given by DEQ. If damage is caused to these items without prior approval, contractor is responsible for repairing the damage.
  - 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;
- Posses a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Posses a current Oklahoma Department of Labor (ODOL) Asbestos Abatement Contractor License in order to perform asbestos abatement;
- Follow all appropriate OSHA requirements;

- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, and lead dust remediation;

**Submit After Contract Award:**

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

## SEQUENCE OF EVENTS

The remediation of the building shall be as follows:

1. First – The asbestos abatement shall be completed.
2. Second – Marshall Environmental shall be contacted to confirm all asbestos has been appropriately removed.
3. Third – The lead-based paint abatement shall be completed.
4. Fourth - All floors of the entire building shall be cleaned.
5. Fifth – DEQ shall be contacted to perform third party confirmation sampling to confirm all floors have been appropriately remediated.

## ASBESTOS ABATEMENT INSTRUCTIONS

- Non-friable and/or non-regulated Asbestos Containing Material (ACM) shall be removed as described in the instructions listed below. For more details see the attached Woodward Armory Asbestos Inspection Report with floor plan map showing locations of ACM (**Attachment 2**).
  - Remove floor tile and mastic from Rooms 2, 3, and 4
    - Total of 450 Square Feet of Asbestos Containing Floor Tile and Mastic
    - The floor tile and mastic is located under ceramic tile. The ceramic tile will have to be removed in order to remove the asbestos containing floor tile and mastic.
  - Remove exterior cement board soffit above front entrance to building.
    - Total of 168 Square Feet of Asbestos Containing Cement Board
- Friable ACM shall be removed as described in the attached Asbestos Abatement Project Design (**Attachment 2**). For more details see the attached Woodward Armory Asbestos Inspection Report with floor plan map showing locations of ACM (**Attachment 2**).
  - Remove approximately 238 linear feet of Asbestos Containing Pipe Insulation.
  - All pipes with asbestos containing pipe insulation and pipe fittings removed shall be re-insulated.
- Once Asbestos Abatement is complete, Marshall Environmental shall be contacted to confirm abatement has been appropriately performed and all asbestos has been removed.



# LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

See Lead-Based Paint Inspection Report  
for details (**Attachment 5**)

## 1. 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**);
  - Three No Smoking signs located in Room 7
  - The exterior wood trim that wraps the entire building

## 2. 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 appropriate.
  - A completed and signed waste manifest, Land Disposal Notification Form, Certificate of Disposal, or any other forms demonstrating that the paint chips were properly disposed must be included in the Final Report.

# LEAD DUST REMEDIATION INSTRUCTIONS

See Survey for Lead in Settled Dust Report  
for details (Attachment 5)

## 1. Lead Dust Remediation (See Attachment 5)

- 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.
- All window sills shall require lead dust remediation
  - Contact DEQ to perform post remediation wipe sampling to confirm window sills have been appropriately remediated to at or below 250 micrograms per square foot (ug/SF).
  - Areas above 250 ug/SF shall be cleaned and tested until results are at or below 250 ug/SF.
- 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 DEQ to perform 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 C (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.

### 3. Disposal of Materials

- Lead contaminated dust from the cleaning of the building, wash water, poly sheeting, personal protective equipment, mop heads, towels, brushes, wipes, other cleaning equipment, 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 samples taken by DEQ.
- DEQ will be responsible for taking all post remediation samples.
- DEQ shall be notified five (5) days prior to each sampling event.
- Contact Information:           DEQ  
  Contact: Dustin Davidson  
  Phone: (405) 702-5115
- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling will be performed after all initial abatement, remediation, and cleaning are complete.

### 5. FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
  - A detailed summary of work including any warranties and data;
  - copy of post remediation sampling report;
  - waste manifests (if any); and
  - photo documentation of work;
    - Photo documentation of work will have color digital photos with captions describing photo;
- Final report will be submitted in a bound 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 73102

**Phone Numbers:**

(405) 702-5115 (Office)

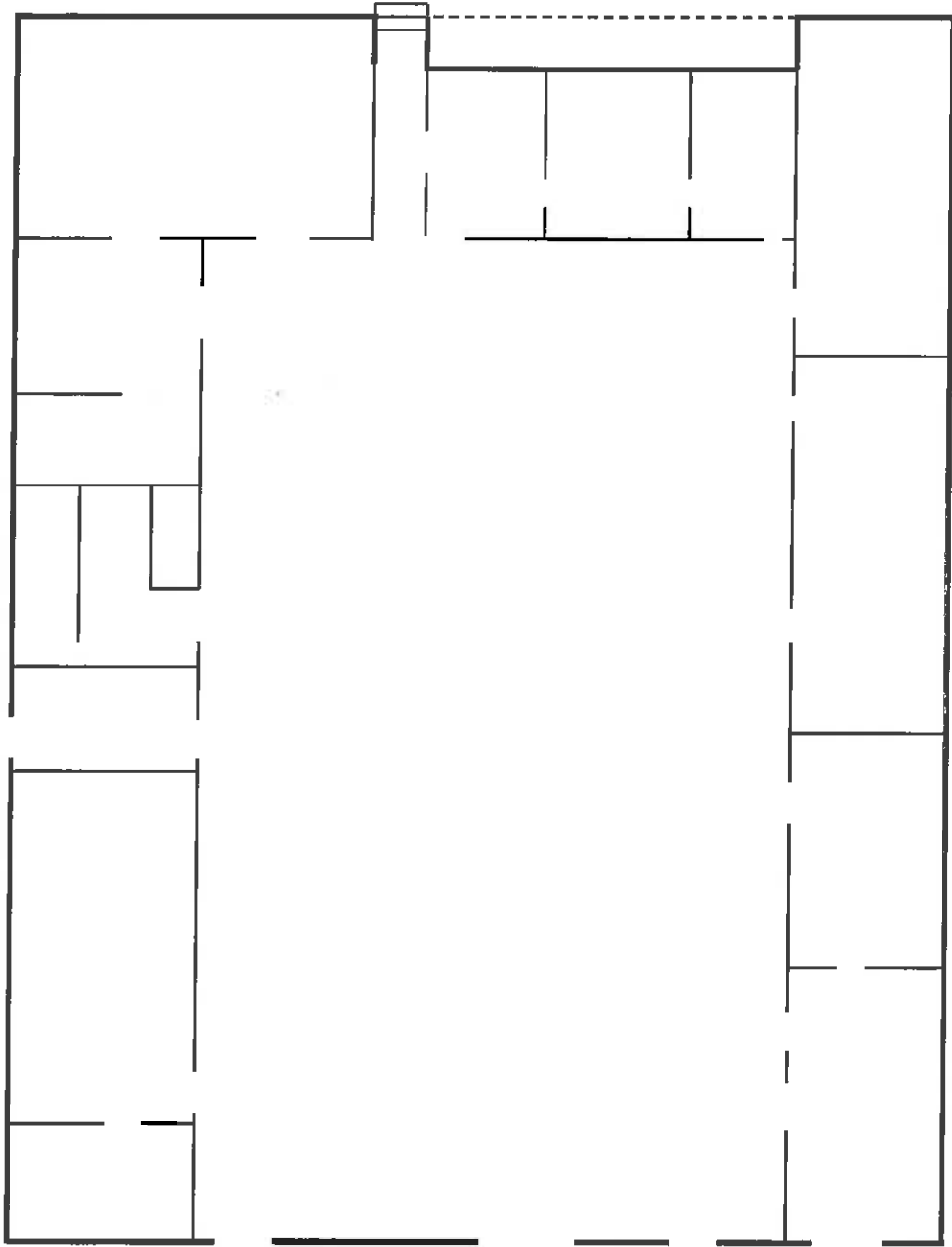
(405) 702-5101 (Fax)

E-Mail: [Dustin.Davidson@deq.ok.gov](mailto:Dustin.Davidson@deq.ok.gov)

# **ATTACHMENT 1**

## **Woodward Armory Floor Plan Map**

### Woodward Armory – floor plan



*Not to scale  
Floor plan approximate*

## **ATTACHMENT 2**

### **Woodward Armory Asbestos Inspection Report And Woodward Armory Asbestos Project Design**

# *WOODWARD ARMORY*

*2100 FIRST STREET  
WOODWARD, OKLAHOMA 73801*

*Sept 12, 2013*

*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 89<sup>th</sup> Street, Suite A-100  
Oklahoma City, Oklahoma 73159  
Phone: 405.616.0401  
Email: [marshenv@swbell.net](mailto:marshenv@swbell.net)*

**Oklahoma Department of Labor Project #:**

---



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# *Woodward Armory*

## *ASBESTOS PROJECT DESIGN*

### ***SCOPE OF WORK***

This Project Design has been prepared to allow for the safe and economical removal of approximately 250 linear feet of asbestos containing Thermal Systems Insulation off water lines from the building located at 2100 First Street in Woodward, Oklahoma in support of the renovation project currently scheduled. Asbestos removal will be conducted in accordance with sub chapter 13 of the Oklahoma Asbestos Control Act (Glovebag Operations).

### ***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 89<sup>th</sup> 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 Act (OAC), 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 one work area. 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 it's 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) 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.
- 7) During the abatement process, asbestos containing materials will be continuously wetted down until asbestos removal is complete.
- 8) After completion of the final cleaning, call for the ODOL Visual Inspection.
- 9) Upon ODOL Visual Inspection approval, the contractor may apply lockdown sealant where applicable and 3rd party clearance air monitoring may be conducted.
- 10) Conduct a final inspection to verify the completion of the Scope of Work with the Project Design Representative.
- 11) Lastly, schedule an ODOL Final Inspection.
- 12) Tear down any prep work and demobilize after approval by the ODOL and Project Design Representative.
- 13) 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 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 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 bedding mud that is located on the ceilings and walls of a room in the building.

Total quantity of ACM to be removed:

- Approximately 250 Square Feet of Texture on wall

The friable asbestos consists of the following:

- 2% Chrysotile

## ***ABATEMENT METHODS, TECHNIQUES & NUMBER OF CONTAINMENTS***

All work will be conducted will be done in accordance with agency rules. 380:50-13-1 (Glovebag Operations). Work areas will be prepped by sealing off all critical barriers and utilizing drop clothes within the work area. Work areas will be separated from non-work areas utilizing triple flaps constructed with 6 mil poly.

## ***AIR MONITORING REQUIREMENTS***

### ***SAMPLING REQUIREMENTS***

All samples will be collected and analyzed by a technician that is NIOSH 582e 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 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..

### ***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, 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 materials within the work area that removed will be covered with 4 mil poly.

### ***REQUEST FOR VARIANCES***

There are no variance requests at this time.

***APPENDIX***

*EXAMPLE CONTAINMENT DRAWING*

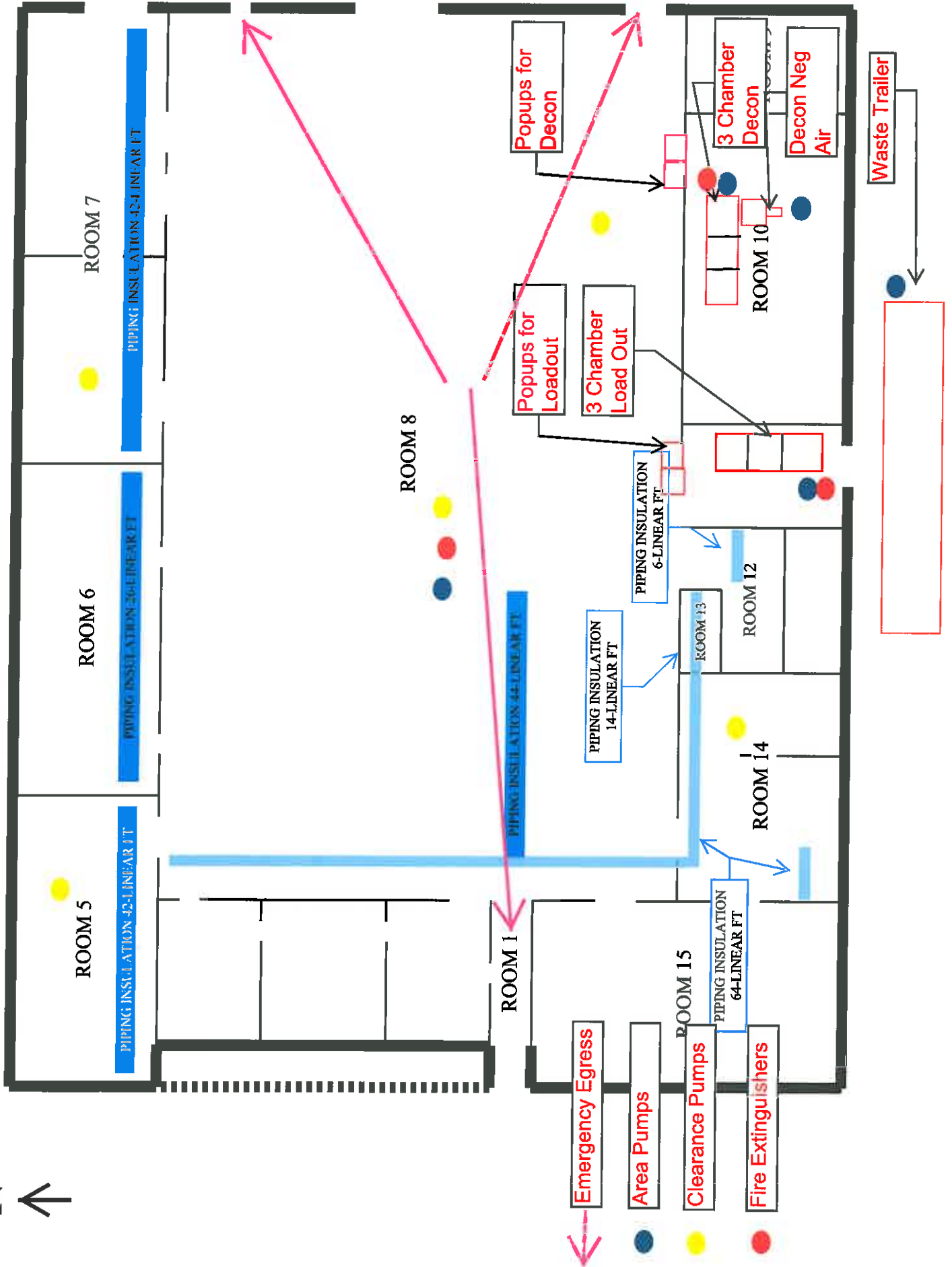
*ANALYTICAL RESULTS*

*ASBESTOS PROJECT DESIGNER LICENSE*



# WOODWARD ARMORY

ASBESTOS CONTAINING MATERIALS



## 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](mailto:marshenv@swbell.net)

PROJECT LOCATION		INVOICE TO		REPORT TO	
<b>Project Identification</b>	0044-AB-042911	<b>Client</b>	State of Oklahoma Department of Central Services	<b>Client</b>	OK Department of Environmental Quality Land Protection Division
<b>Project</b>	Woodward Armory	<b>Attention</b>	Cindy Melton Administrative Programs Director	<b>Attention</b>	Dustin Davidson Environmental Programs Specialist
<b>Project Address</b>	2100 1st Street Woodward, OK 73801	<b>Address</b>	P.O. Box 53448 Oklahoma City, OK 73152-3448	<b>Address</b>	P.O. Box 1677 Oklahoma City, OK 73101
<b>Contact</b>	Matt Lehenbauer	<b>Phone</b>	405-522-4805	<b>Phone</b>	405-702-5115
<b>Phone</b>	405-466-5356	<b>Fax</b>	405-522-0051	<b>Fax</b>	
<b>Cell</b>	580-254-0896	<b>Other</b>		<b>Other</b>	
<b>email</b>		<b>email</b>	<a href="mailto:cindy_melton@dcs.state.ok.us">cindy_melton@dcs.state.ok.us</a>	<b>email</b>	<a href="mailto:dustin.davidson@deq.ok.gov">dustin.davidson@deq.ok.gov</a>

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		20% ASBESTOS DETECTED	
					COLOR	CONDITION	20%	80%
0039-042911-PLM-21	April 29, 2011	Piping Insulation	Brown	Good	20%	Chrysotile	80%	Cellulose
		Drill Floor Room	Good					
		West Wall	Thermal System Insulation					
0039-042911-PLM-22	April 29, 2011	Piping Insulation	Brown	Good	20%	Chrysotile	80%	Cellulose
		Men's Restroom	Good					
		West Wall	Thermal System Insulation					
0039-042911-PLM-23	April 29, 2011	Piping Insulation	Brown	Good	20%	Chrysotile	80%	Cellulose
		Utility Closet	Good					
			Thermal System Insulation					
0039-042911-PLM-24	April 29, 2011	White Ceiling tile	White	Good			100%	Foam
		Room 2	Good					
			Miscellaneous					
0039-042911-PLM-25	April 29, 2011	White Ceiling Tile	White	Good			100%	Foam
		Room 3	Good					
			Miscellaneous					

Jamie Marshall		May 10, 2011
	Jamie Marshall, B.S., Industrial Hygiene Associate	
<b>ANALYST NAME (PRINT)</b>	<b>ANALYST SIGNATURE</b>	<b>DATE ANALYZED</b>

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
--	---

**Oklahoma Department of Labor**



FEE: \$0.00

**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 law hereby issues to the  
applicant license No. **OK-PD400478**.

*Mark Costello*

MARK COSTELLO

Commissioner of Labor

March 20, 2013

Date of Issuance

**EXPIRES: March 01, 2014**

## **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 4**).

### **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

#### **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, 5<sup>th</sup> Edition**

Occupational Safety and Health Administration, Department of Labor Section III



## **ATTACHMENT 4**

### **DEQ Approved Lead-Based Paint Encapsulants List**

## Lead-Based Paint Encapsulants approved by DEQ

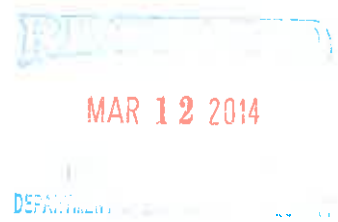
<b>Encapsulant Manufacturer</b>	<b>Encapsulant Product(s)</b>
Coronado Paint Company	LEAD BLOCK™
Dumond Chemicals	LEAD STOP™
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal™ I
Encap Systems Corporation	EncapSeal™ II
Fiberlock Technologies, Inc.	Child GUARD 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

## **ATTACHMENT 5**

# **Lead-Based Paint Inspection Report and Survey for Lead in Settled Dust Report For Woodward Armory**

## **FINAL ABATEMENT REPORTS**

Environmental  
Action  
Inc.



March 10, 2014

Attn.: Dustin Davidson  
ODEQ

RE: Woodward Armory

Dear Mr. Davidson,

Please find the closeout documents for the Woodward Armory following. Feel free to call should you have any questions or need additional information. We appreciate the opportunity to be of service.

Respectfully submitted,  
Environmental Action, Inc.

Darwin Chesnut  
Operations Manager  
(405) 990-0070



Oklahoma Department of Labor

Mark Costello, Commissioner

www.ok.gov/dol

Oklahoma City

3017 N Stiles, Suite 100
Oklahoma City, OK 73105
405-521-6100 / 888-289-5353
Fax 405-521-8025

Tulsa

440 South Houston, Suite 300
Tulsa, OK 74127
918-581-2400
Fax 918-581-2431

Oklahoma Accreditation Plan (OAP) Inspection Form

Name of Facility: Woodland Academy
Facility Address: 2100 First Street
City: Woodward
DOL Project Numb, if applicable:
Owner name: DINES CAP
Owner address: 2401 N Lincoln Blvd - OKC-OK-73105
Owner phone: (405) 522-5762
Contract person:
Date: 1-6-14
Reason for Inspection: Response Action
Contractor: Environmental Action
Contractor address: PO Box 1029, Jenks, OK
City: Jenks
Contractor office phone: (410) 898-4080

Abatement Project Description (size of project, type of material, methods used, etc.)
238 linear feet of TSI Pipe insulation - 2% chrysotile - Glass bags

OPENING CONFERENCE

Personnel present and interviewed:
Name: Juan Prieto Title: Supervisor

ACCREDITATION OF CONTRACTORS & WORKERS cont.

Table with 3 columns: Name, License #, Exp. Date. Workers listed include: Asuvarnie Riviera Solis (License: 279879, Exp: 6-3-13), Wilham Dominguez Velazquez (License: 279822, Exp: 7-16-13).

ODOL Inspector accompanied by other State or Federal employee(s)
Yes [ ] No [x]

Credentials presented to:
Name: Juan Prieto Title: Supervisor

Notice of Inspection signed and a copy provided to official?
Yes [x] No [ ]

INSPECTION

Was the building initially inspected for asbestos?
Yes [x] No [ ]
Name of Inspector: Jamie Mercha II
License #: Exp. Date:
Date of Inspection:

AIR MONITORING DATA

Name of Laboratory: Earth Tech
Address: 3336 E 32nd Street Suite 234
City: Tulsa, OK
License #: 157792 Exp. Date: 5-30-14
On-Site air tech contract: United Air Tech Phone: (918) 712-9163
Type of analysis: TEM [ ] PCM [ ] [x]

ACCREDITATION OF CONTRACTORS & WORKERS

Table with 3 columns: Name, License #, Exp. Date. Contractors/Supervisors listed include: Juan Prieto (License: 400519, Exp: 5-31-13), James Smith (License: 260876, Exp: 3-7-13).

Definition of Public and Commercial Building:

The interior space of any building, excluding residential apartment buildings of fewer than four (4) units or detached single-family homes. The term includes, but is not limited to industrial and office buildings, residential apartment buildings and condominiums of four (4) or more dwelling units, government-owned buildings, colleges, school buildings, museums, airports, hospitals, churches, preschools, stores, warehouse, and factories. Interior space includes interior hallways connecting buildings, porticos, and mechanical systems used to condition interior space.

Recommendations & Remarks

Orders
Inspector: [Signature]
Contractor or Representative: [Signature]



**Notice of Inspection**  
**Oklahoma Department of Labor**  
**Mark Costello, Commissioner**  
 www.labor.ok.gov

**Oklahoma City**  
 3017 North Stiles, Suite 100  
 Oklahoma City, OK 73105  
 405-521-6464  
 888-269-5353  
 Fax 405-521-6025

**Tulsa**  
 440 South Houston, Suite 300  
 Tulsa, OK 74127  
 918-581-2400  
 Fax 918-581-2431

1. INVESTIGATION IDENTIFICATION			2. TIME 1200	3. COMPANY NAME Environmental Action, Inc.
DATE 01/06/11	INSPECTOR NO. OK-018	DAILY SEQ NO. 001		
3. INSPECTOR ADDRESS 3017 N Stiles OKC, OK. 73105			4. COMPANY ADDRESS P.O. Box 1029 Jenks, OKla.	

**REASON FOR INSPECTION**

Under the authority of Section 11 of the Toxic Substances Control Act:

For the purpose of inspecting (including taking samples, photographs, statements and other inspection activities) an establishment, facility or other premises in which chemical substances or mixtures or articles containing same are manufactured, processed or stored, or held before or after their distribution in commerce (including records, files, papers, processes, controls, and facilities) and any conveyance being used to transport chemical substances, mixtures or articles containing same in connection with their distribution in commerce (including records, files, papers, processes, controls and facilities) bearing on whether the requirements of the Act applicable to the chemical substances, mixtures or articles within or associated with such premises or conveyance have been complied with.

In addition, this inspection extends to (check appropriate boxes):

- A. Financial data
- B. Sales data
- C. Pricing data
- D. Personnel data (40 CFR Part 763 Subpart E)
- E. Research data

The nature and extent of inspection of such data specified in A through E above is as follows:

*OAP Inspection*

*— license Review*

*Woodward Avenue  
 2100 First Street  
 Woodward, OK.*

*2321 near Fl. T51  
 2% chrysotile*

**CERTIFICATION**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

INSPECTOR SIGNATURE <i>[Signature]</i>		RECIPIENT SIGNATURE <i>[Signature]</i>	
NAME <i>King Horner</i>		NAME <i>Jason R. [unclear]</i>	
TITLE <i>Inspector</i>	DATE SIGNED <i>01-06-11</i>	TITLE <i>[unclear]</i>	DATE SIGNED <i>1-6-11</i>



## Abatement Preparation Inspection Form

Abatement Project: Woodward Armory  
 Project No.: \_\_\_\_\_  
 Project Address/Location: 2100 First Street  
 Contractor: FAI  
 Project Phone No.: (405) 570-3614  
 Project Owner: OMES-CAP

Date: 01 - 06 - 14 Time: 12 : 15  
 Phase: Glove bags  
 City: Woodward Zip: \_\_\_\_\_  
 Contact Person: Juan Prieto  
 Contractor's Home/Office Phone No.: (918) 298-4080  
 Owner's Rep.: \_\_\_\_\_

A = Acceptable.  
 D = Denied; must be correct 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 correct shall constitute a **Serious Violation**. \*\*

A D N/A X				A D N/A X				A D 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-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" 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 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 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(26) Storage lockers for workers and ODOL 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) Aerial lifts have full-body harness with shock lanyards	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(8) Respirator, air system and equipment manuals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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) Bull hoses and respirators free of oil residue	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(33) Electrical system in abatement area locked out / tagged out <u>letter</u>	<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 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-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. <u>to go</u>	<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 LIC #:	<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 <u>generator</u>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>										

63  # OF GLOVEBAGS

# OF FULL CONTAINMENTS

# OF MINI CONTAINMENTS

Recommendation & Remarks:

Prep Accepted for 63 glovebags

Contractor may run clearance samples prior to visual inspection

Orders:

Inspector's Signature

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 #: <u>107872</u> Facility: <u>11-1001 BLDG</u> Contractor #: _____ Address/Location: <u>3100 S. W. 8th St</u> Owner/Occupant: <u>DAVE &amp; CAT</u> Contact Name: <u>AMY</u> Facility Phone #: <u>405-521-1763</u>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Month</td> <td style="text-align: center;">Day</td> <td style="text-align: center;">Year</td> <td style="text-align: center;">Time</td> </tr> <tr> <td style="text-align: center;"><u>01</u></td> <td style="text-align: center;"><u>07</u></td> <td style="text-align: center;"><u>2014</u></td> <td style="text-align: center;"><u>11:00</u></td> </tr> </table> County #: _____ FY #: _____ Address City: <u>Tulsa, OK</u> Contractor: <u>ACE</u> Contractor's Rep.: <u>Tom P...</u> Contractor's Phone #: <u>405-521-2014</u>	Month	Day	Year	Time	<u>01</u>	<u>07</u>	<u>2014</u>	<u>11:00</u>
Month	Day	Year	Time						
<u>01</u>	<u>07</u>	<u>2014</u>	<u>11:00</u>						

1. Description of Area: Basement area below 1st floor, approx 2000 sq ft. Several  
rooms with old machinery, pipes, etc. also some old  
insulation about 2nd floor.

2. Areas requiring further cleaning: None

3. Air Counts (PCM/TEM) On-Site?: Yes All below 100 PCM  
and 100 TEM and meeting State of OK

4. DOL Recommendations: None

5. Will a FINAL inspection be required?: Yes

6. Notes: \_\_\_\_\_

7. Note any violations cited: 380:50-

8. Contractor's Comments: \_\_\_\_\_

Inspector's Signature

Contractor's Signature

Oklahoma Department of Labor

- Initial Notification
- Revised Notification



- Emergency Notification

Mark Costello  
COMMISSIONER

ASBESTOS	PROJECT	CHECKLIST
NAME	ADDRESS	CITY PHONE
Job Site: Former Woodward Armory	2100 First Street	Woodward, OK N/A
Contractor: ENVIRONMENTAL ACTION	PO BOX 1029	JENKS OK 918-298-4080
Site Owner: OMES CAP	2401 N. Lincoln Blvd., Suite 106, Oklahoma City, OK 73105 405-522-6762	
Gen. Contractor N/A		
Project Designer: ENVIRONMENTAL ACTION	PO BOX 1029	JENKS OK 918-298-4080
Air Monitoring Firm: Earth Tech	3336 E 32 <sup>nd</sup> Street	Tulsa, OK 918 712-9163
Air Monitoring Firm: N/A		
Landfill: WASTE CONNECTIONS	7600 SW 15 <sup>th</sup>	OKC OK 405-745-3002
Hauler: Lowder Transportation	PO Box 307	Shawnee, OK 405 275-8538
MOBILIZATION DATE: <u>1/6/2014</u> SCHEDULED DATE OF ASBESTOS REMOVAL: <u>1/9/2014</u> PROJECT COMPLETION DATE: <u>1/27/2014</u> RENOVATION: <u>X</u> DEMOLITION: _____ EMER: _____		
Type and percentage asbestos (attach lab reports): Submitted with approved project design		
AMOUNT OF ASBESTOS TO BE ABATED: 238 LF of TSI		
ABATEMENT TECHNIQUES: Detailed in Marshall Environmental Management Project Design		
SUBMITTALS NECESSARY BEFORE ABATEMENT MAY BEGIN. CHECK OF <b>ONLY</b> THOSE ATTACHED TO THIS CHECKLIST OR WHICH ARE ON FILE AT THE OKLAHOMA STATE DEPARTMENT OF LABOR.		
<p style="text-align: right;">_____ Variances</p> <p>N/ANESHAPS Notification (Copy) _____</p> <p>___ Project specifications _____</p> <p>___ Bonds and/or Insurance Certificates _____</p> <p>___ Plans for Decontamination Facilities _____</p> <p>___ Respirator Program _____</p> <p>___ Employee Physicals _____</p> <p>___ Permission from owner for all rented vehicles/trailers used to haul asbestos-containing material.</p> <p>___ # of Mini-containments _____</p> <p>___ TBD # of Glovebags _____</p> <p>___ # of Containments _____</p> <p>___ # of Phases _____</p> <p><b>FEEES</b></p> <p>* \$ 600.00 per containment</p> <p>* \$ 200.00 per project not part of a definite containment.</p> <p>* \$ 200.00 per project with multiple glovebags or mini-containment, plus \$ 5.00 per such glovebag or mini-containment</p>		
Comments:		

*Mark Costello*

12/17/2013

Contractor/Responsible Party Signature Date

# ENVIRONMENTAL ACTION INC.

February 27, 2014

Oklahoma Department of Labor  
3017 N. Stiles, Suite 100  
Oklahoma City, OK 73105

RE: 2013-7772 ODEQ Woodward Armory

The following documents are enclosed for your records:

- Air monitoring results
- Waste disposal manifest

Please call if you need any additional information in order to complete your file.

Sincerely,  
ENVIRONMENTAL ACTION, INC.



Darwin Chesnut  
Oklahoma City Operations Manager

 COPY

Emiled to BYRD ON  
2/27 8:30 AM

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 Former Woodward Armory Building  
 Woodward, Oklahoma

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 Geovannie Rivera Lic #279879 Full Face Glovebag Operations	01/06/14	12:23 16:42	259	25mm	2.5	2.3	2.40	0.00785	1 100	621.6	0.008 BDL	0.008	1.3	0.011 0.005
2	P.2 William Domiguez Lic #279822 Full Face Glovebag Operations	01/06/14	12:23 16:42	259	25mm	2.5	2.4	2.45	0.00785	1.5 100	634.55	0.008 BDL	0.008	1.9	0.010 0.005
3	Inside Work Area #1 Main Armory Area	01/06/14	12:23 16:42	259	25mm	2.5	2.4	2.45	0.00785	3.5 100	634.55	0.008 BDL	0.008	4.5	0.010 0.005
4	Inside Work Area #2 with Crew - Armory A	01/06/14	12:24 16:42	258	25mm	2.5	2.4	2.45	0.00785	3 100	632.1	0.008 BDL	0.008	3.8	0.010 0.005
5	Outside Work Area at Loadout - East	01/06/14	12:25 16:46	261	25mm	2.5	2.3	2.40	0.00785	1 100	626.4	0.008 BDL	0.008	1.3	0.011 0.005
6	Adjacent to Decon South	01/06/14	12:22 16:45	263	25mm	2.5	2.4	2.45	0.00785	1.5 100	644.35	0.008 BDL	0.008	1.9	0.010 0.005
7	Neg Air Exhaust at Decon	01/06/14	12:24 16:45	261	25mm	2.5	2.4	2.45	0.00785	1 100	639.45	0.008 BDL	0.008	1.3	0.010 0.005
8	Blank - 1	01/06/14			25mm				0.00785	0 100				0.0	
9	Blank - 2	01/06/14			25mm				0.00785	0 100				0.0	

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

*Christopher K. Vidigau*

Enviromental 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 Former Woodward Armory Building  
 Woodward, Oklahoma

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
10	P.1 William Domingue Lic #279822 Full Face Glovebag Operations	01/07/14	7:21 11:18	237	25mm	2.5	2.4	2.45	0.00785	1 100	580.65	0.008 BDL	0.008	1.3	0.011 0.006
11	P.2 Geovannie Rivera Lic #279879 Full Face Glovebag Operations	01/07/14	7:21 11:18	237	25mm	2.5	2.3	2.40	0.00785	2 100	568.8	0.009 BDL	0.009	2.5	0.012 0.006
12	Inside Work Area #1 Main Armory Area	01/07/14	7:21 11:18	237	25mm	2.5	2.3	2.40	0.00785	1 100	568.8	0.009 BDL	0.009	1.3	0.012 0.006
13	Inside Work Area #2 with Crew - Armory A	01/07/14	7:21 11:18	237	25mm	2.5	2.3	2.40	0.00785	1.5 100	568.8	0.009 BDL	0.009	1.9	0.012 0.006
14	Outside Work Area at Loadout - East	01/07/14	7:25 11:15	230	25mm	2.5	2.4	2.45	0.00785	3 100	563.5	0.009 BDL	0.009	3.8	0.012 0.006
15	Adjacent to Decon South	01/07/14	7:19 11:19	240	25mm	2.5	2.3	2.40	0.00785	5 100	576	0.009 BDL	0.009	6.4	0.011 0.006
16	Neg Air Exhaust at Decon	01/07/14	7:20 11:20	240	25mm	2.5	2.4	2.45	0.00785	1 100	588	0.008 BDL	0.008	1.3	0.011 0.005
17	Loadout at Trailer	01/07/14	7:29 11:15	226	25mm	2.5	2.3	2.40	0.00785	2 100	542.4	0.009 BDL	0.009	2.5	0.012 0.006

I certify that these samples were taken and analyzed according to NIOSH 7400 protocol.

*Christopher K. Kuehn*

Environmental Action, Inc  
PO Box 1029  
Jenks, OK 74037

afm 1

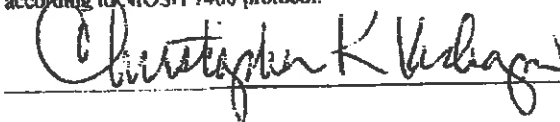
Earth Tech Enterprises, Inc.  
3336 E. 32nd, Suite 234  
Tulsa, OK 74135  
918-712-9163

Project Former Woodward Armory Building  
Woodward, Oklahoma

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
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18	Blank - 1	01/07/14			25mm				0.00785	0 100					0.0
19	Blank - 2	01/07/14			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

Earth Tech Enterprises, Inc.  
 3336 E. 32nd, Suite 234  
 Tulsa, OK 74135  
 918-712-9163

Project Former Woodward Armory Building  
 Woodward, Oklahoma

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
20	Clearance Main Area "Drill Floor"	01/07/14	11:33 13:37	124	25mm	9.8	9.8	9.80	0.00785	4 100	1215.2	0.004 BDL	0.004	5.1	0.005 0.003
21	Clearance South Central Restroom "Quarters"	01/07/14	11:34 13:38	124	25mm	9.8	9.8	9.80	0.00785	1.5 100	1215.2	0.004 BDL	0.004	1.9	0.005 0.003
22	Clearance Hot Water Heater Closet	01/07/14	11:34 13:38	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 Shower and Restroom Southwest	01/07/14	11:34 13:38	124	25mm	9.8	9.8	9.80	0.00785	2 100	1215.2	0.004 BDL	0.004	2.5	0.005 0.003
24	Clearance Northwest Corner Room "Training Room"	01/07/14	11:35 13:40	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 Large North Room Overhead Doors	01/07/14	11:38 13:44	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
26	Blank - 1	01/07/14			25mm				0.00785	0 100				0.0	
27	Blank - 2	01/07/14			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.  
P.O. BOX 1029  
JENKS, OK, 74037  
(918) 298-4080

DAILY FIELD ACTIVITY LOG

Tuesday  
Page 1 of

SUPERVISOR: <u>Nash Harjo</u>	DATE: <u>01-28-14</u>	
PROJECT NAME: <u>Woodward Armory</u>	PROJECT NO. <u>5422</u>	

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 8:00 Crew Meets @ OKC Shop.  
Load Supplies + Drive Out to Jobsite - Woodward Armory / 9:00 Enroute.  
11:30 Arrive @ Jobsite go Over Scope of Work.  
12:00 Check in Motel. / Lunch Break  
1:00 begin cleaning of lead dust in Drill Area. / Also Rm # - 2-3+4.  
5:00 Clean up Work Areas  
5:30 Shut Down For the Day.

VISITORS ON SITE:  
D. Lovett here take measurements for Reinsulation.

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

OTHER PERSONNEL ON SITE:

SIGNATURE: Nash Harjo

DATE: 01-28-14



ENVIRONMENTAL ACTION INC.  
P.O. BOX 1029  
JENKS, OK, 74037  
(918) 298-4080

DAILY FIELD ACTIVITY LOG

Thursday  
Page 3 of

SUPERVISOR: <u>Nash Harjo</u>	DATE: <u>01-30-14</u>	PROJECT NO. <u>5422</u>
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PROJECT NAME: <u>Woodward Armory</u>
--------------------------------------

FIELD ACTIVITY SUBJECT:
-------------------------

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: <u>07:00 Crew on site.</u>
<u>All-4-wkrs will continue w/ Drill Floor cleaning (Ceiling Area).</u>
<u>11:30 lunch</u>
<u>12:30 back to work. 2-wkrs go back to cleaning Drill Fl. Area + 2-wkrs</u>
<u>go outside to paint wood trim that has already been scraped + scrape</u>
<u>+ paint other areas.</u>
<u>5:00 Put equipment back in Bldg + clean up work areas.</u>
<u>5:20 Secure Bldg / shut down for the day.</u>

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
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WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
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IH PERSONNEL ON SITE:	SIGNATURE: <u>Nash Harjo</u>	DATE: <u>01-30-14</u>
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ENVIRONMENTAL ACTION INC.  
P.O. BOX 1029  
JENKS, OK, 74037  
(918) 298-4080

DAILY FIELD ACTIVITY LOG

Friday  
Page 4 of

SUPERVISOR: <u>Nash Harjo</u>	DATE: <u>01-31-14</u>	PROJECT NO. <u>5422</u>
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PROJECT NAME: Woodward Armory

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 07:00 Crew on Site:  
4-wkrs Continue w/ cleaning in Drill Fl-Area (Ceiling).  
11:30 lunch  
12:30 back to work - Continue w/ cleaning Drill-walls/<sup>area</sup>ceilings.  
5:00 Shut Down For the week.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
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WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
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IH PERSONNEL ON SITE:	SIGNATURE: <u>Nash Harjo</u>	DATE: <u>01-31-14</u>
-----------------------	------------------------------	-----------------------

ENVIRONMENTAL ACTION INC.  
P.O. BOX 1029  
JENKS, OK, 74037  
(918) 298-4080

DAILY FIELD ACTIVITY LOG

Monday  
Page 5 of

SUPERVISOR: *Nash Harjo* DATE: *2-3-14*

PROJECT NAME: *Woodward Armory* PROJECT NO. *5422*

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: *11:00 am - Crew on site*

*Crew continues w/ clearing of wall in Drill Floor Area -  
5:15 Shot Down for the Day*

VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:

PH PERSONNEL ON SITE:

SIGNATURE: *Nash Harjo* DATE: *2-3-14*

ENVIRONMENTAL ACTION INC.  
P.O. BOX 1029  
JENKS, OK, 74037  
(918) 298-4080

DAILY FIELD ACTIVITY LOG

Tuesday  
Page 6 of

SUPERVISOR: <b>Nash Hargo</b>	DATE: <b>2-4-17</b>	PROJECT NO. <b>5422</b>
PROJECT NAME: <b>Woodward Amvory.</b>		

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: **Orido Crew on site**  
**Crew with other Rms on the North Side of Bldg.**  
**11:30 Lunch**  
**12:30 Continue w/ cleaning Rms N. Side.**  
**5:00 Shut Down for the Day.**

Note: called United Rental + Set up lift Delivery for Tomorrow Morning.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:

TH PERSONNEL ON SITE:	
SIGNATURE: <b>Nash Hargo</b>	DATE: <b>2-4-17</b>

ENVIRONMENTAL ACTION INC.  
P.O. BOX 1029  
JENKS, OK, 74037  
(918) 298-4080

DAILY FIELD ACTIVITY LOG

Wednesday  
Page 7 of

SUPERVISOR: Nash Hargo DATE: 2-5-14  
PROJECT NAME: Woodward Armory PROJECT NO. 5422

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 0:700 crew on site  
Some wks will tear Poly Down on the South Side & Decor Units  
Others will clean floors & walls Southside.  
11:30 lunch  
12:30 Continue w/ Tear Down & cleaning. 4-wks are painting trim —  
Outside  
5:30 Secure Bldg & lift shut down — for the day.

Note: 10:00 AM. Lift is here. Will begin painting trim Outside After lunch

VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:

IH PERSONNEL ON SITE:

SIGNATURE: Mark King DATE: 2-5-14

DAILY FIELD ACTIVITY LOG

Thursday  
Page 8 of

SUPERVISOR: <u>Nash Harjo</u>	DATE: <u>2-6-14</u>	Page 8 of
PROJECT NAME: <u>Woodward Armory</u>	PROJECT NO. <u>5922</u>	

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 07:00 Crew on site

4-wkrs will continue to Paint Trim - Need to put first coat on North & West Sides at 2nd Coat on All the Rest of Trim. Crews are loading Trailer to cleaning the last 2-Arms & Eager.

10:00 Call for lift to be picked after work.

12:30 Demobilize / Take Scaffolding back to Crosslands

3:30 Arrive @ Shop OKC. - Take Scaffold back & hand supplier for pipe coating removal south of Malone. 5:00 Shut Down for the Day.

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

IH PERSONNEL ON SITE:

SIGNATURE: Nash Harjo

DATE: 2-6-14



Daily Sign In Sheet

LOCATION	DAY	DATE	SHEET # 1			
Woodward Army	Tuesday	01-28-14	Job # 5422			
	Name	IN	OUT	IN	OUT	
1	Josh Kump	08:00	12:00	1:00	5:15	
2	Ernest Jackson					
3	Jose Vences					
4	Adiel Rebollar					
5	Aurelio Flores					
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Daily Sign In Sheet

LOCATION		DAY	DATE		SHEET # 2	
Woodward Armory		Wednesday	01-29-14		Job # 5422	
	Name	IN	OUT	IN	OUT	
1	Mash King	07:00	11:30	12:30	5:15	
2	Nurelia Flores	↓	↓	↓	↓	
3	Adiel Rebollar	↓	↓	↓	↓	
4	Jose Vences	↓	↓	↓	↓	
5	Ernest Jackson	↓	↓	↓	↓	
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Daily Sign In Sheet

LOCATION		DAY	DATE		SHEET # 3	
Woodward Armory		Thursday	01-30-14		Job # 5422	
	Name	IN	OUT	IN	OUT	
1	Nash King	07:00	11:30	12:30	5:00	
2	Aurelio Flores					
3	Jose Vences					
4	Adiel Rebellar					
5	Ernest Jackson					
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Daily Sign In Sheet

LOCATION		DAY	DATE		SHEET # 4	
Woodward Armory		Friday	01-31-14		Job # 5422	
	Name	IN	OUT	IN	OUT	
1	Mash King	09:00	11:30	12:30	5:00	
2	3 West Jackson					
3	Adiel Rebellar					
4	Aurelio Flores					
5	Jose Venes					
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Daily Sign In Sheet

LOCATION		DAY	DATE		SHEET # 5	
Woodward Armory		Monday	2-3-14		Job # 5422	
	Name	IN	OUT	IN	OUT	
1	Wash Kaiyo	11:00			5:15	
2	Ernest Jackson					
3	Aurelio Flores					
4	Adiel Rebollos					
5	Jose Vences					
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Daily Sign In Sheet

LOCATION		DAY	DATE		SHEET # 6	
Woodward Armory		Tuesday	2-4-14		Job # 5422	
	Name	IN	OUT	IN	OUT	
1	Thash Idajio	07:00	11:30	12:30	5:15	
2	West Jackson					
3	Adiel Rebellax					
4	Aurelio Flores					
5	Jose Vences					
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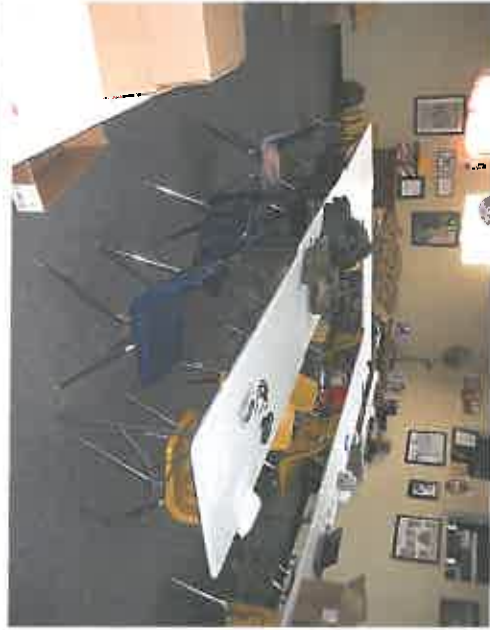
Daily Sign In Sheet

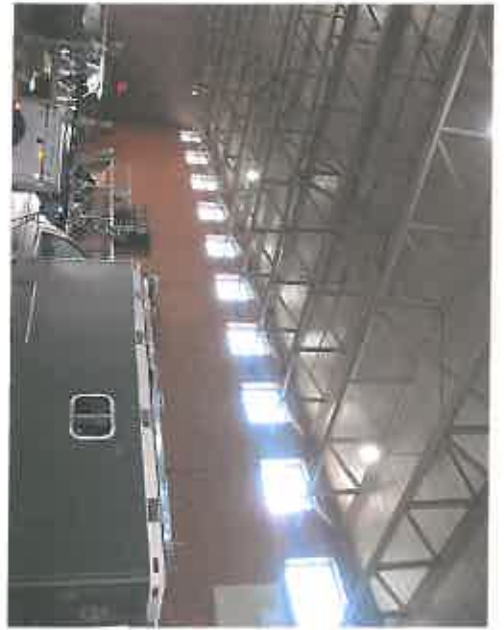
LOCATION		DAY	DATE		SHEET # 7	
Woodward Armory		Wednesday	02-5-14		Job # 5422	
	Name	IN	OUT	IN	OUT	
1	Nash King	07:00	11:30	12:30	5:15	
2	Paula Cross					
3	Joe Meadows					
4	Abundio Beltran					
5	Jose Vences					
6	Adiel Rebolter					
7	Rene Flores					
8	Ernest Jackson					
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Daily Sign In Sheet

LOCATION	DAY	DATE	SHEET # 8			
Woodward Army	Thursday	02-6-74	Job # 5422			
	Name	IN	OUT	IN	OUT	
1	Nash King	07:00			12:30	
2	PAUL PNESS					
3	Joe Meadows					
4	Armando Beltran					
5	Jose Vences					
6	Adiel Rebollar					
7	Arnelio Flores					
8	Ernest Jackson					
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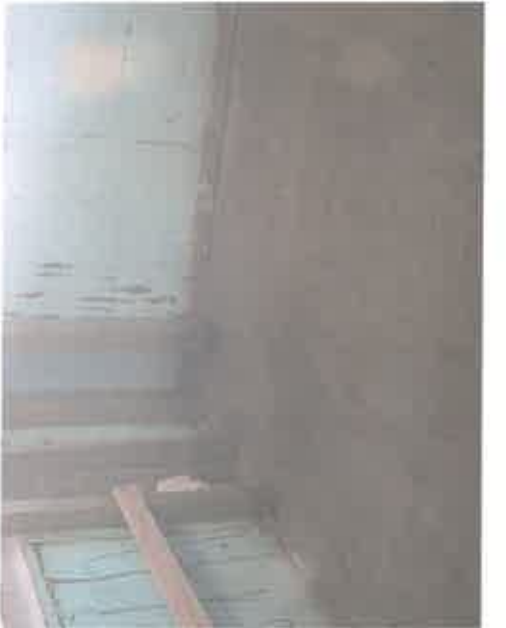


























08/05/2011 10:13



08/05/2011 10:13



08/05/2011 10:13



## CONFIRMATION SAMPLING

## CONFIRMATION SAMPLING RESULTS

### Woodward Armory

The Department of Environmental Quality (DEQ) personnel sampled the Woodward Armory for lead dust to confirm room floors were below the Housing and Urban Development (HUD) standard of 40 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) for child occupied facilities after all lead-based paint and lead dust abatement was complete. Below is a summary of the sample events and results.

On **February 13, 2014**, DEQ personnel sampled the floors of the building where lead dust was elevated before abatement was performed and areas where there was a potential for lead dust to be tracked from elevated areas to confirm these areas were below the HUD standard of  $40 \mu\text{g}/\text{ft}^2$ . Below is a summary of the results. Sample results are attached (**Attachment 1**).

- Forty-four (44) samples were taken on the floor of the armory and three (3) samples were above  $40 \mu\text{g}/\text{ft}^2$ .
  - Sample #12 – Result =  $72.8 \mu\text{g}/\text{ft}^2$
  - Sample #17 – Result =  $41.8 \mu\text{g}/\text{ft}^2$
  - Sample #31 – Result =  $410 \mu\text{g}/\text{ft}^2$

On **February 26, 2014**, after the areas were re-cleaned by a DEQ contractor, DEQ personnel sampled the floor locations where the previous samples had failed to confirm these areas were below the HUD standard of  $40 \mu\text{g}/\text{ft}^2$  for lead. During the previous sampling event on February 13, 2014, DEQ personnel did not have access to the Woodward Armory vault. DEQ personnel took 3 samples from the vault floor as well as 6 more samples from armory rooms that were previously above  $40 \mu\text{g}/\text{ft}^2$  for lead during the second sampling event on February 26th. Below is a summary of the results. Sample results are attached (**Attachment 2**).

- Nine (9) samples were taken on the floor of the armory; all samples returned results lower than  $40 \mu\text{g}/\text{ft}^2$  for lead.

**ATTACHMENT 1**

**February 13, 2014 SAMPLE RESULTS**



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

**State of Oklahoma  
DEQ Land Protection  
Attn: Dustin Davidson  
707 N. Robinson  
Oklahoma City, OK 73102**

**Re: QuantEM ID 231916**

QuantEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuantEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at [www.QuanTEM.com](http://www.QuanTEM.com). Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,  
QuantEM Laboratories, LLC.





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

## Environmental Chemistry Analysis Report

**QuantEM Set ID:** 231916  
**Date Received:** 02/13/14  
**Received By:** Sherrie Leftwich  
**Date Sampled:**  
**Time Sampled:**  
**Analyst:** CC  
**Date of Report:** 2/17/2014

**Client:** State of Oklahoma  
 DEQ Land Protection  
 Attn: Dustin Davidson  
 707 N. Robinson  
 Oklahoma City, OK 73102  
**Acct. No.:** B486  
**Project:** Woodward Armory  
**Location:** Woodward, 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	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
009	9	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
010	10	Wipe	Lead	9.55	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
011	11	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
012	12	Wipe	Lead	72.8	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
013	13	Wipe	Lead	14.9	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
014	14	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
015	15	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
016	16	Wipe	Lead	34.4	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
017	17	Wipe	Lead	41.8	9	ug/sq. Ft.	02/17/14 10:30	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: 231916  
Date Received: 02/13/14  
Received By: Sherrie Leftwich  
Date Sampled:  
Time Sampled:  
Analyst: CC  
Date of Report: 2/17/2014

Client: State of Oklahoma  
DEQ Land Protection  
Attn: Dustin Davidson  
707 N. Robinson  
Oklahoma City, OK 73102  
Acct. No.: B486  
Project: Woodward Armory  
Location: Woodward, OK  
Project No.: N/A

AIIA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
019	19	Wipe	Lead	15.1	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
020	20	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
021	21	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
022	22	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
023	23	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
024	24	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
025	25	Wipe	Lead	30.3	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
026	26	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
027	27	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
028	28	Wipe	Lead	11.7	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
029	29	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
030	30	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
031	31	Wipe	Lead	410	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
032	32	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
033	33	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
034	34	Wipe	Lead	18.4	9	ug/sq. Ft.	02/17/14 10:30	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:** 231916  
**Date Received:** 02/13/14  
**Received By:** Sherrie Leftwich  
**Date Sampled:**  
**Time Sampled:**  
**Analyst:** CC  
**Date of Report:** 2/17/2014

**Client:** State of Oklahoma  
 DEQ Land Protection  
 Attn: Dustin Davidson  
 707 N. Robinson  
 Oklahoma City, OK 73102  
**Acct. No.:** B486  
**Project:** Woodward Armory  
**Location:** Woodward, 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.	02/17/14 10:30	W NIOSH 9100
036	36	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
037	37	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
038	38	Wipe	Lead	14.3	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
039	39	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
040	40	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
041	41	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
042	42	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
043	43	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
044	44	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
045	45	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
046	46	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	W NIOSH 9100
047	47	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/17/14 10:30	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: 231916  
Date Received: 02/13/14  
Received By: Sherrie Lcftwich  
Date Sampled:  
Time Sampled:  
Analyst: CC  
Date of Report: 2/17/2014

Client: State of Oklahoma  
DEQ Land Protection  
Attn: Dustin Davidson  
707 N. Robinson  
Oklahoma City, OK 73102  
Acct. No.: B486  
Project: Woodward Armory  
Location: Woodward, OK  
Project No.: N/A

AIIIA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
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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: 11799  
Test: Lead

Date: 2/17/2014  
Matrix: Wipe

Lab Number: 231916  
Approved By: Benton Miller  
Date Approved: 2/17/2014

**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	4.9	5.5
ICV	0.9	1.03	1.1
RLVS	0.144	0.165	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	5.040	5.239	104.0	5.058	100.4	3.5

Authorized Signature: \_\_\_\_\_

  
Benton Miller, Analyst

# LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502  
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

For Lab Use Only  
 Lab No. 231916  
 Accept  Reject

## LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

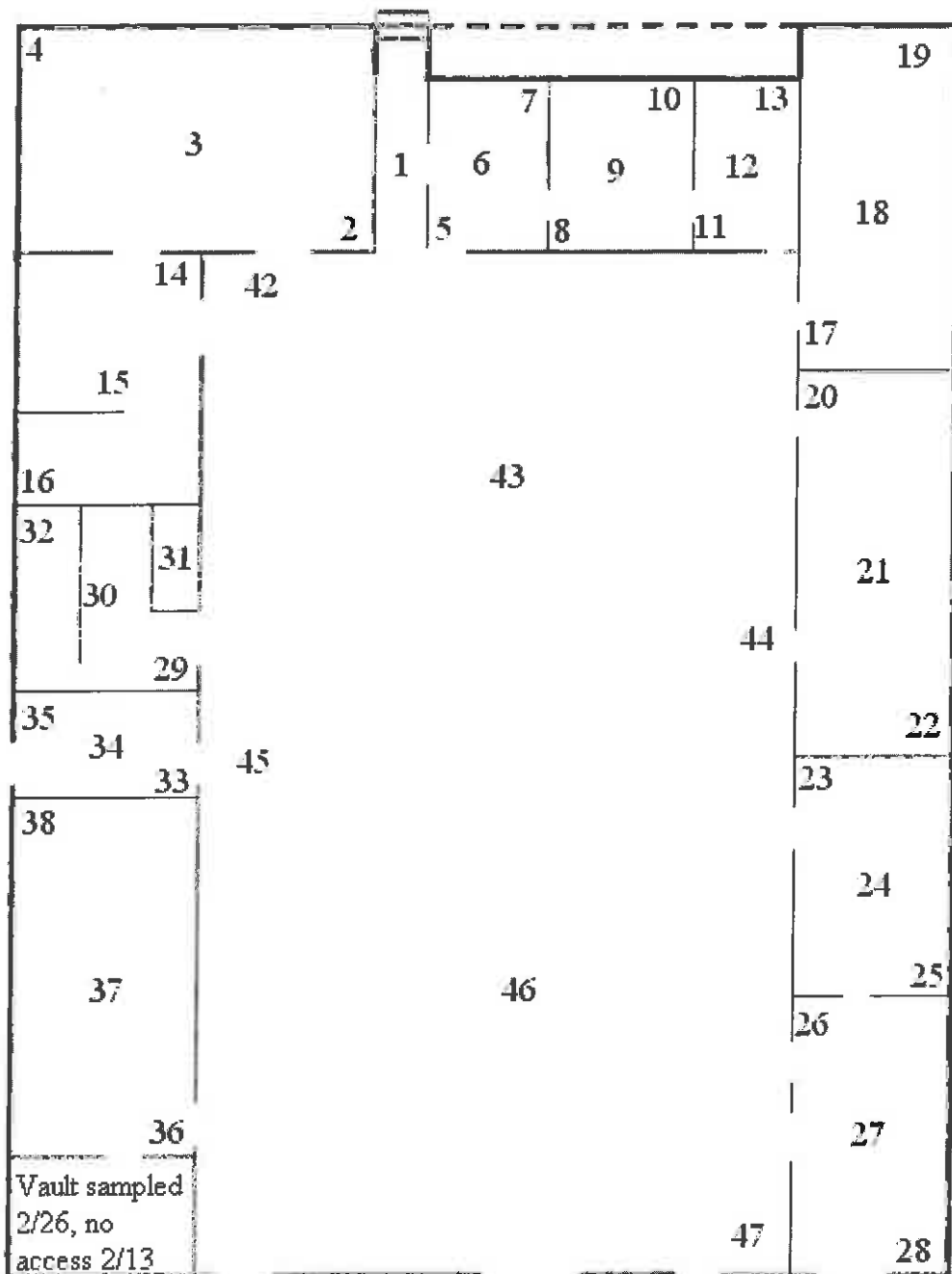
Contact Information		Project Information	
Company: <u>DEQ</u>	Phone: <u>(405) 703-5112</u>	Project Name: <u>Woodward Amery</u>	Report Results: <input checked="" type="checkbox"/> (one box)
Contact: <u>Brittany Downs</u>	Cell Phone:	Project Location: <u>Woodward, OK</u>	Quantem Website
Account #:	E-mail: <u>brittany.downs@deq.ok.gov</u>	Project ID: <u>231916</u>	Other
Sampled By: <u>Brittany Downs</u>	Date: <u>2/13/14</u>		

RELINQUISHED BY: <u>[Signature]</u>	DATE & TIME: <u>2/13/14 4:18 drop off</u>	VIA:	RECEIVED BY: <u>[Signature]</u>	DATE & TIME: <u>2/13/14 4:21</u>
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### 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		
						Pb					PPM	Wt %	mg / l	ug / ft <sup>2</sup>	ug / m <sup>2</sup>		mg / cm <sup>2</sup>	
1	1-47	Lead wipe		10" x 12"	C-X													
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

TURNAROUND TIME	
Same Day	
<del>24 - Hour</del>	
3 - Day	
5 - Day	



*Not to scale  
Floor plan approximate*

## **ATTACHMENT 2**

**February 26, 2014 SAMPLE RESULTS**



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

State of Oklahoma  
DEQ Land Protection  
Attn: Dustin Davidson  
707 N. Robinson  
Oklahoma City, OK 73102

Re: Quantem ID 232424

Quantem appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making Quantem your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at [www.QuanTEM.com](http://www.QuanTEM.com). Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,  
Quantem Laboratories, LLC.





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

## Environmental Chemistry Analysis Report

QuanTEM Set ID: 232424  
Date Received: 02/26/14  
Received By: Sherrie Leftwich  
Date Sampled:  
Time Sampled:  
Analyst: CC  
Date of Report: 2/27/2014

Client: State of Oklahoma  
DEQ Land Protection  
Attn: Dustin Davidson  
707 N. Robinson  
Oklahoma City, OK 73102  
Acct. No.: B486  
Project: Woodward Armory Resample  
Location: Woodward, OK  
Project No.: N/A

A111A 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.	02/27/14 11:00	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
009	9	Wipe	Lead	36.5	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100
010	10	Wipe	Lead	<9.00	9	ug/sq. Ft.	02/27/14 11:00	W NIOSH 9100

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 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: 11825  
Test: Lead

Date: 2/27/2014  
Matrix: Wipe

Lab Number: 232424  
Approved By: Benton Miller  
Date Approved: 2/27/2014

Notes:

**Blank Data:**

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

**Standards Data:**

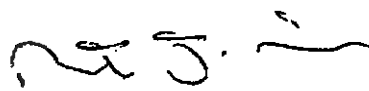
Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.1	5.5
FCV	4.5	5.2	5.5
ICV	0.9	1	1.1
RLVS	0.144	0.21	0.216

**Duplicate Data:**

**Recovery Data:**

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.050	5.117	101.3	5.269	104.3	2.9

Authorized Signature: \_\_\_\_\_



Benton Miller, Analyst



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# LEAD CHAIN OF CUSTODY

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## LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab-Use Only

Lab No. 232424

Accept  Reject

Report Results (SI, one box)

QUANTEM Website

Other

Project Information:

Project Name: Woodward Army Research

Project Location: Woodward, OK

Project ID: 607

Contact Information:

Company: DEQ

Contact: Brittany Downs

Account #: \_\_\_\_\_

Contact Information:

Phone: 405 702 5112

Cell Phone: 779 563 4889

Email: brittany.downs@deq.ok.gov

Date: 2/26/14

RELINQUISHED BY: [Signature] DATE & TIME: 2/26/14 3:15

VIA: Slip Truck RECEIVED BY: \_\_\_\_\_

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	TURNAROUND TIME	
						PPM	Wt %	mg/l	µg/ft <sup>2</sup>	µg/m <sup>2</sup>			mg/cm <sup>2</sup>
1		Lead wipe			C				X				
2													
3													
4													
5													
6													
7													
8													
9													
10													
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 Pick up"